



September 1, 2023

**Re: Colorado State Pit & Location Closure Report  
Investment Equipment LLC - Operator # 10330  
Colorado State 1&2 Pit (Facility ID 117586) SWNW Sec 36-3S-R53W,  
“A” 1 Pit (Facility ID 117587) NESW Sec 36-3S-R53W,  
Colorado State Location (Facility ID 470686),  
Remediation Project # 18894**

On behalf of Investment Equipment LLC, GIS Peace has prepared this Closure Report to document closure activities of the Colorado State 1&2 Pit (Facility ID 117586), the Colorado “A” 1 Pit (Facility ID 117587), and the Colorado State Location (Facility ID 470686) to request official ECMC closure of the Pits and Location so that regrading and reclamation activities can begin. This report summarizes remediation details including sample locations, analyte suites, and analytical results for closure of the Colorado State Pits and Location (Site). Closure activities were initiated with the submittal and approval of Closure Form 27 # (402646539), Remediation Project # 18894.

#### **Pits Characterization Activities–Metals in Soils**

Characterization of the Pits continued August 1, 2023, with sampling of the bases of the Pits to collect confirmation soil samples for metals from the Colorado “A” 1 Pit which is identified within this report as the East Pit (EP) as well as the Colorado State 1&2 Pit which is identified within this report as the West Pit (WP). In addition, five background samples for metals (BM1-BM5) were collected from five (5) separate locations sufficiently away from the impacted area to reflect conditions not impacted by oil and gas activity. Soil sample locations were documented using ArcGIS Collector and are included within Figure 2 – Sample Locations. Pictures of sample locations are included within the Colorado State Closure Photo Log. Soil samples were then submitted to Summit Scientific Laboratory in Golden, Colorado, for analysis of Metals in Soils as per Table 915-1.

#### **Location Characterization Activities–Soil Suitability for Reclamation**

To address soil suitability levels for reclamation, six (6) samples were collected from surface areas adjacent to the Pits to confirm the extent of soil suitability impacts. Sample locations included surface areas west and south of the West Pit, and the four cardinal directions



Geospatial Consulting Services

surrounding the East Pit. Soil sample locations were documented using ArcGIS Collector and are included within Figure 2 – Sample Locations. Pictures of sample locations are included within the Colorado State Closure Photo Log. Soil samples were then submitted to Summit Scientific Laboratory in Golden, Colorado, for analysis of Soil Suitability for Reclamation as per Table 915-1.

### **Historical Spill Characterization Activities– Soil Suitability for Reclamation**

To address soil suitability levels for reclamation in the historical spill area, four (4) samples were collected from the historical spill sample locations and were then submitted to Summit Scientific Laboratory in Golden, Colorado, for analysis of Soil Suitability for Reclamation as per Table 915-1. Soil sample locations were documented using ArcGIS Collector and are included within Figure 2 – Sample Locations.

Field screening data, sample depths, and analytical results are included within the Colorado State 915-1 Soil Analytical Summary Tables 1-4. Sample locations were documented using ArcGIS Collector and photos of each sample location have been included within the Colorado State Location Closure Photo Log.

### **Pits Analytical Results–Metals in Soils**

Sample results for the West Pit Base (WPB) slightly exceeded Table 915-1 Arsenic standards, however, the Arsenic level calculated from the five background samples (Calculated Background Value (CBV)) exhibited concentrations above the West Pit Base Arsenic result.

### **Location Analytical Results– Soil Suitability for Reclamation**

Sample results for the surface areas adjacent to the Pits reveal that these areas follow Table 915-1 Soil Suitability for Reclamation standards. These areas are highlighted within Figure 3 – Reclamation Planning.

### **Historical Spill Analytical Results– Soil Suitability for Reclamation**

Sample results for the Historical Spill samples areas reveal that the Spill 2 sample location exceeded Table 915-1 Soil Suitability for Reclamation standards for Sodium Adsorption Ratio.

### **Historical Spill 2 Location Characterization– Soil Suitability for Reclamation**

On August 16, 2023, four samples were collected in the cardinal directions 10' from the Spill 2 sample location and were then submitted to Summit Scientific Laboratory in Golden, Colorado, for analysis of Soil Suitability for Reclamation as per Table 915-1.

### **Historical Spill 2 Location Characterization Results– Soil Suitability for Reclamation**

The four samples collected surrounding the historical Spill 2 location exhibited compliance with Soil Suitability for Reclamation as per Table 915-1.



### **Reclamation Planning**

With ECMC approval of the closure of the Site and Pits, reclamation activities in accordance with 1000 Series rules will begin. During regrading of the Site, sodic soil from the berms will be buried below 3' bgs within the Pits and clean soils will be imported to fill from 3' bgs to the surface. Excess sodic soil will be stockpiled and hauled for disposal if necessary. Following backfill of the Pits and regrading of the Site, soil suitability sampling for reclamation will be performed at twelve locations across the Site as shown within Figure 3 – Reclamation Planning. In addition, the soil within the 20' x 20' square surrounding the Historical Spill 2 Location will be removed to a depth of 3' and placed below 3' bgs within the Pits and clean imported soil will be used to backfill from 3' bgs to surface level. In addition, a Soil Suitability confirmation sample will be collected at the historical Spill 2 location following regrading. Seeding of a winter crop will be performed in any disturbed areas beginning in the Fall season of 2024 by the local farmer who will also address any noxious weed control until the crop is established.

### **Conclusions**

Analytical results included herein confirm that hydrocarbon impacts are no longer present at concentrations above Table 915-1 standards at the Colorado State equipment locations, as well as the two Pits. Background sampling for metals in soils confirms that the bases of the two Pits are in compliance with Table 915-1 standards. Soil suitability for reclamation sampling has identified the areas around the Pits that meet Table 915-1 standards. In order to maintain progress on this remediation project, Investment Equipment LLC requests the official ECMC approval of the use of the Arsenic Calculated Background Value to close the Colorado State 1&2 Pit (West Pit) (Facility ID 117586), the Colorado "A" 1 Pit (Facility ID 117587), and the approval that the Site wide soil suitability sampling will be acceptable to achieve closure of the Colorado State Location (Facility ID 470686). Once this path for closure is approved, the placement of sodic soils into the Pits as well as reclamation in accordance with ECMC 1000 Series rules can begin. Following closure and regrading of the Pits and Location, Site soil suitability sampling for reclamation proposed above will be performed and submitted to ECMC under separate cover.

Please contact me directly if you have any questions regarding this report or require additional information.

Sincerely,  
GIS Peace LLC,

A handwritten signature in blue ink, appearing to read "Carter Peace", is written over a light blue horizontal line.

Carter Peace  
GIS Peace Environmental Scientist



[carter.peace@gispeace.com](mailto:carter.peace@gispeace.com)  
(303) 854-7337

**Attachments:**

Figure 1 – Site Location

Figure 2 – Sample Locations

Figure 3 – Reclamation Planning

Table 1- Colorado State 915-1 Soil Analytical Summary-Organics

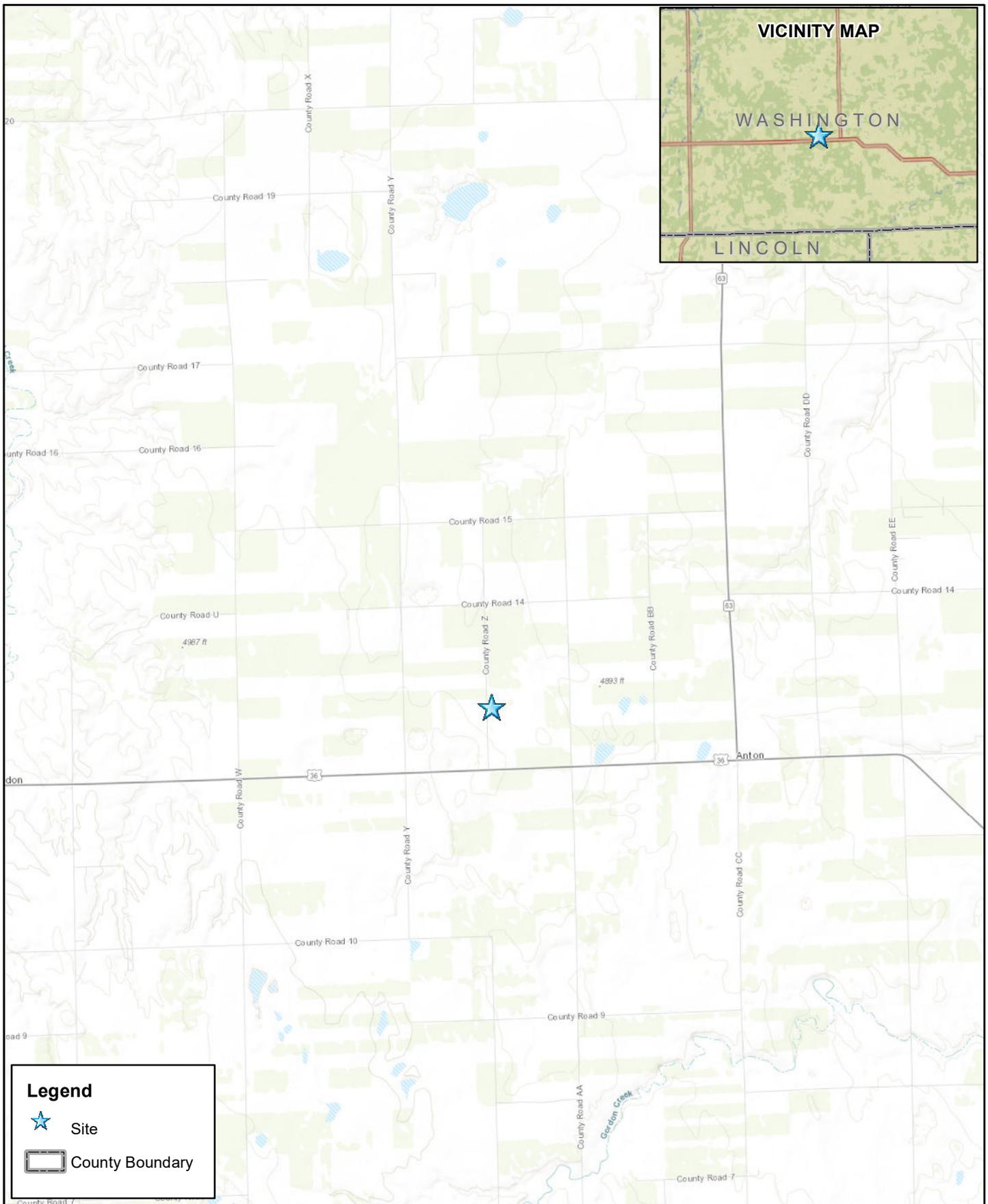
Table 2- Colorado State 915-1 Soil Analytical Summary-Soil Suitability 2021

Table 3- Colorado State 915-1 Soil Analytical Summary-Soil Suitability 2023

Table 4- Colorado State 915-1 Soil Analytical Summary-Metals in Soils

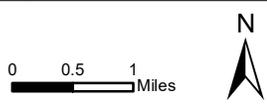
Colorado State Location Closure Photo Log 2023

Exhibit A – Analytical Reports



**Legend**

-  Site
-  County Boundary



**Investment Equipment, LLC**  
 CO State Location Closure  
 Washington County, Colorado

DATE: 10/6/2022  
 DESIGNED BY: C. Peace  
 DRAWN BY: N. Peace



Site Location

Figure  
1





**Legend**

- Reclamation Planning
- Sample Locations
- ◆ Approx Spill Locations
- Reclamation Area



**Investment Equipment, LLC**  
 CO State Location Closure  
 Washington County, Colorado

DATE: 9/1/2023  
 DESIGNED BY: C. Peace  
 DRAWN BY: N. Peace



Reclamation Planning

Figure  
3





**INVESTMENT EQUIPMENT LLC  
 COLORADO STATE LOCATION CLOSURE  
 TABLE 915-1 SOIL ANALYTICAL RESULTS SUMMARY**

	Table 915 <sup>(1)</sup> Standard (Residential)	WPWW (West pit west wall) 12/2/2021	WPNW (West pit north wall) 12/2/2021	WPEW (West pit east wall) 12/2/2021	WPSW (West pit south wall) 12/2/2021	EPWW (East pit west wall) 12/2/2021	EPNW (East pit north wall) 12/2/2021	EPEW (East pit east wall) 12/2/2021	EPSW (East pit south wall) 12/2/2021	WPNW (West pit north wall) 4/19/2022	WPB (West pit base) 4/19/2022	EPBN (East pit base north) 4/19/2022	EPBS (East pit base south) 4/19/2022	TB (Tank battery) 4/19/2022	ST (Skim tank) 4/19/2022	HT (Heater treater) 4/19/2022	WPB @ 7 (West pit base @ 7) 7/21/2022
<b>1- Methylnaphthalene</b>	18	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
<b>2- Methylnaphthalene</b>	24	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500

1. Standards for soil are taken from Table 915-1, effective January 15, 2021.

2. PID - Photo-ionization detector

3. TPH - Total volatile and extractable petroleum hydrocarbons. Value calculated by adding GRO, ORO, and DRO concentrations.

ECMC = Energy and Carbon Management Commission

(<) = Analytical result is less than the indicated laboratory reporting limit.

GRO = Total volatile petroleum hydrocarbons - gasoline range organics

DRO = Total extractable petroleum hydrocarbons - diesel range organics

ORO = Total volatile petroleum hydrocarbons - oil range organics

mg/kg = Milligrams per kilogram

**BOLD** = Analytical result is in exceedance of COGCC Table 915-1 soil standards.

**INVESTMENT EQUIPMENT LLC  
 COLORADO STATE LOCATION CLOSURE  
 TABLE 915-1 SOIL ANALYTICAL RESULTS SUMMARY**

	Table 915 <sup>(1)</sup> Standard (Residential)	BACKGROUND NORTH 12/2/21	BACKGROUND SOUTH 12/2/21	WPSB <sup>(2)</sup> 12/2/21	WPSS <sup>(2)</sup> 12/2/21	Center Berm (CB) 12/2/21	Center Surface (CS) 12/2/21	WPWB 12/2/21	WPWS 12/2/21	WPNB 12/2/21	WPNS 12/2/21	EPSB <sup>(3)</sup> 12/2/21	EPSS <sup>(3)</sup> 12/2/21	EPEB 12/2/21	EPES 12/2/21	EPNB 12/2/21	EPNS 12/2/21
<b>SOIL SUITABILITY FOR RECLAMATION</b>																	
<b>Boron</b>	2 mg/l	0.6	0.7	<b>2.1</b>	<b>3</b>	<b>2.3</b>	0.4	<b>2.4</b>	<b>5.2</b>	1.1	0.8	<b>2.4</b>	<b>2.6</b>	<b>2.5</b>	<b>2.5</b>	<b>2.4</b>	1.8
<b>Calcium</b>	NA	2.7	6.7	0.51	0.59	34.5	7	7.56	0.61	10.34	17.88	1.18	2.21	0.42	0.64	0.74	58.6
<b>Magnesium</b>	NA	0.68	1.65	0.26	0.25	8.08	1.95	4.85	0.3	3.71	8.91	0.49	0.95	0.2	0.27	0.3	20.2
<b>Sodium</b>	NA	0.48	0.38	25.14	12.16	187	161	44.75	41.21	35.7	18	19.77	22.13	21.89	8.77	26.65	128
<b>Sodium Adsorption Ratio</b>	<6	0.37	0.19	<b>40.52</b>	<b>18.76</b>	<b>57.36</b>	1.18	<b>17.96</b>	<b>61.09</b>	<b>13.47</b>	<b>4.96</b>	<b>21.64</b>	<b>17.61</b>	<b>39.32</b>	<b>13</b>	<b>20.21</b>	3.68
<b>Specific Conductance (EC)</b>	<4mmhos/cm	0.65	0.97	1.8	1.27	2.97	<b>4.19</b>	3.15	3.2	2.64	2.67	1.48	1.61	2.07	1.15	<b>27.89</b>	1.83
<b>pH</b>	6-8.3	7.85	7.80	8.72	8.73	8.81	7.37	7.96	9.33	7.74	7.72	8.76	8.54	9.16	8.34	8.62	9.07

**Notes:**

1. Standards for soil are taken from Table 915-1, effective January 15, 2021.
  2. WPSB - West Pit South Berm. WPSS - West Pit South Surface
  3. EPSB - East Pit South Berm. EPSS - East Pit South Surface
- BOLD** = Analytical result is in exceedance of COGCC Table 915-1 soil standards.

**INVESTMENT EQUIPMENT LLC  
COLORADO STATE LOCATION CLOSURE  
TABLE 915-1 SOIL ANALYTICAL RESULTS SUMMARY**

	Table 915 <sup>(1)</sup> Standard (Residential)	SPILL 1 <sup>(2)</sup> 8/1/23	SPILL 2 8/1/23	SPILL 3 8/1/23	SPILL 4 8/1/23	WPWS <sup>(3)</sup> 8/1/23	WPSS 8/1/23	EPES 8/1/23	EPNS 8/1/23	EPSS 8/1/23	EPWS 8/1/23	S2N <sup>(4)</sup> 8/16/23	S2S 8/16/23	S2E 8/16/23	S2W 8/16/23
<b>SOIL SUITABILITY FOR RECLAMATION</b>															
<b>Sample Depth</b>		1'	1'	1'	1'	1'	1'	1'	1'	1'	1'	1'	1'	1'	1'
<b>Boron</b>	2 mg/l	0.0572	0.0608	0.101	0.0543	ND	0.0958	0.0122	ND	ND	ND	1.03	0.993	0.621	1.86
<b>Calcium</b>	NA	223	159	178	246	105	937	93.7	81.0	54.3	72.4	67.6	74.1	86.2	137
<b>Magnesium</b>	NA	69.4	29.2	40.7	61	40.4	148	8.98	10.4	11.6	13.2	12.0	13.8	15.9	22.5
<b>Sodium</b>	NA	273	395	187	182	73.1	205	18.5	8.67	8.48	62.7	75.7	21.5	14.5	92.6
<b>Sodium Adsorption Ratio</b>	<6	4.09	<b>7.56</b>	3.29	2.69	1.54	1.64	0.489	0.241	0.273	1.78	2.23	0.602	0.377	1.93
<b>Specific Conductance (EC)</b>	<4mmhos/cm	0.680	1.51	0.576	0.558	1.05	0.575	0.325	0.257	0.320	0.447	0.357	0.234	0.200	0.403
<b>pH</b>	6-8.3	8.24	8.02	7.76	7.52	7.59	8.09	7.70	7.77	7.32	7.55	7.40	6.85	6.66	8.18

**Notes:**

1. Standards for soil are taken from Table 915-1, effective January 15, 2021.
  2. SPILL 1 - 4 represent samples collected from historical spill sample locations
  3. WPWS - West Pit West Surface. WPWS - West Pit West Surface. WPWS - West Pit West Surface. WPSS - West Pit South Surface. EPES - East Pit East Surface. EPNS - East Pit North Surface. EPSS - East Pit South Surface. EPWS - East Pit West Surface
  4. S2N - Spill 2 North, S2S - Spill 2 South, S2E - Spill 2 East, and S2W - Spill 2 West
- BOLD** = Analytical result is in exceedance of COGCC Table 915-1 soil standards.

**INVESTMENT EQUIPMENT LLC  
 COLORADO STATE LOCATION CLOSURE  
 TABLE 915-1 SOIL ANALYTICAL RESULTS SUMMARY**

	Table 915 <sup>(1)</sup> Standard (Residential)	BM1 <sup>(2)</sup> 8/1/23	BM2 <sup>(2)</sup> 8/1/23	BM3 <sup>(2)</sup> 8/1/23	BM4 <sup>(2)</sup> 8/1/23	BM5 <sup>(2)</sup> 8/1/23	CBV <sup>(3)</sup>	WPB <sup>(4)</sup> 8/1/23	EPB <sup>(4)</sup> 8/1/23
<b>METALS IN SOILS</b>									
<b>Sample Depth</b>		1'	1'	1'	1'	1'	1'	9'	9'
<b>Arsenic</b>	0.68	0.721	0.800	1.3	0.741	0.746	1.077	<b>0.775</b>	0.457
<b>Barium</b>	15000	60.5	104.0	133	85.6	77.3	115.1	209	387
<b>Cadmium</b>	71	0.27	0.26	0.251	0.312	0.25	0.33	0.232	0.208
<b>Copper</b>	3100	1.69	1.97	2.28	1.91	1.66	2.38	2.43	1.88
<b>Lead</b>	400	6.50	7.10	6.18	8.27	6.77	8.71	5.77	5.56
<b>Nickel</b>	1500	1.78	2.48	2.56	1.81	1.94	2.64	2.6	2.27
<b>Selenium</b>	390	ND	ND	ND	ND	ND	ND	ND	ND
<b>Silver</b>	390	0.0252	0.06	0.05	0.0317	0.0300	0.0482	0.0305	0.0321
<b>Zinc</b>	23000	7.07	7.07	6.93	8.44	7.25	9.19	8.57	8.19
<b>Chromium</b>	0.3	1.69	ND	ND	ND	ND	ND	ND	ND

**Notes:**

1. Standards for soil are taken from Table 915-1, effective January 15, 2021.
2. BM1 - Background Metals 1, BM2 - Background Metals 2, etc.
3. CBV - Calculated background value equals the sum of five background values / 5 x 1.25
4. WPB - West Pit Base. EPB - East Pit Base

**BOLD** = Analytical result is in exceedance of COGCC Table 915-1 soil standards.

INVESTMENT EQUIPMENT LLC  
COLORADO STATE LOCATION CLOSURE  
SWNW Sec 36 - T 3S - R 53W  
Soil Sample Location Photos



West Pit Base @ 9' Soil Sample Location 8/1/2023

INVESTMENT EQUIPMENT LLC  
COLORADO STATE LOCATION CLOSURE  
SWNW Sec 36 - T 3S - R 53W  
Soil Sample Location Photos



East Pit Base @ 9' Soil Sample Location 8/1/2023

INVESTMENT EQUIPMENT LLC  
COLORADO STATE LOCATION CLOSURE  
SWNW Sec 36 - T 3S - R 53W  
Soil Sample Location Photos



Background Metals 1 (BM1) Soil Sample Location 8/1/2023

INVESTMENT EQUIPMENT LLC  
COLORADO STATE LOCATION CLOSURE  
SWNW Sec 36 - T 3S - R 53W  
Soil Sample Location Photos



Background Metals 2 (BM2) Soil Sample Location 8/1/2023

INVESTMENT EQUIPMENT LLC  
COLORADO STATE LOCATION CLOSURE  
SWNW Sec 36 - T 3S - R 53W  
Soil Sample Location Photos



Background Metals 3 (BM3) Soil Sample Location 8/1/2023

INVESTMENT EQUIPMENT LLC  
COLORADO STATE LOCATION CLOSURE  
SWNW Sec 36 - T 3S - R 53W  
Soil Sample Location Photos



Background Metals 4 (BM4) Soil Sample Location 8/1/2023

INVESTMENT EQUIPMENT LLC  
COLORADO STATE LOCATION CLOSURE  
SWNW Sec 36 - T 3S - R 53W  
Soil Sample Location Photos



Background Metals 5 (BM5) Soil Sample Location 8/1/2023

INVESTMENT EQUIPMENT LLC  
COLORADO STATE LOCATION CLOSURE  
SWNW Sec 36 - T 3S - R 53W  
Soil Sample Location Photos



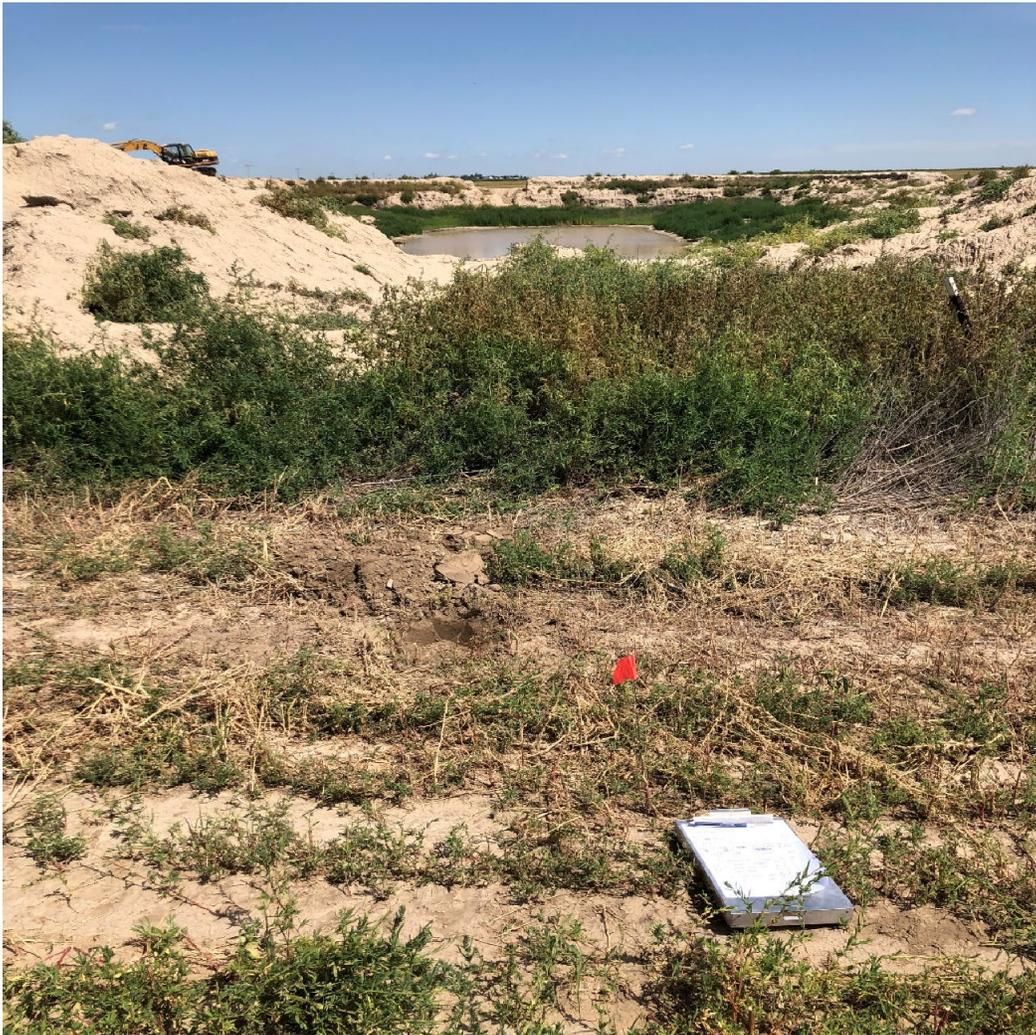
East Pit East Surface (EPES) Soil Sample Location 8/1/2022

INVESTMENT EQUIPMENT LLC  
COLORADO STATE LOCATION CLOSURE  
SWNW Sec 36 - T 3S - R 53W  
Soil Sample Location Photos



East Pit North Surface (EPNS) Soil Sample Location 8/1/2022

INVESTMENT EQUIPMENT LLC  
COLORADO STATE LOCATION CLOSURE  
SWNW Sec 36 - T 3S - R 53W  
Soil Sample Location Photos



East Pit South Surface (EPSS) Soil Sample Location 8/1/2022

INVESTMENT EQUIPMENT LLC  
COLORADO STATE LOCATION CLOSURE  
SWNW Sec 36 - T 3S - R 53W  
Soil Sample Location Photos



East Pit West Surface (EPWS) Soil Sample Location 8/1/2022

INVESTMENT EQUIPMENT LLC  
COLORADO STATE LOCATION CLOSURE  
SWNW Sec 36 - T 3S - R 53W  
Soil Sample Location Photos



West Pit South Surface (WPSS) Soil Sample Location 8/1/2022

INVESTMENT EQUIPMENT LLC  
COLORADO STATE LOCATION CLOSURE  
SWNW Sec 36 - T 3S - R 53W  
Soil Sample Location Photos



West Pit West Surface (WPWS) Soil Sample Location 8/1/2022

INVESTMENT EQUIPMENT LLC  
COLORADO STATE LOCATION CLOSURE  
SWNW Sec 36 - T 3S - R 53W  
Soil Sample Location Photos



Spill 1 Soil Sample Location 8/1/2023

INVESTMENT EQUIPMENT LLC  
COLORADO STATE LOCATION CLOSURE  
SWNW Sec 36 - T 3S - R 53W  
Soil Sample Location Photos



Spill 2 Soil Sample Location 8/1/2023

INVESTMENT EQUIPMENT LLC  
COLORADO STATE LOCATION CLOSURE  
SWNW Sec 36 - T 3S - R 53W  
Soil Sample Location Photos



Spill 3 Soil Sample Location 8/1/2023

INVESTMENT EQUIPMENT LLC  
COLORADO STATE LOCATION CLOSURE  
SWNW Sec 36 - T 3S - R 53W  
Soil Sample Location Photos



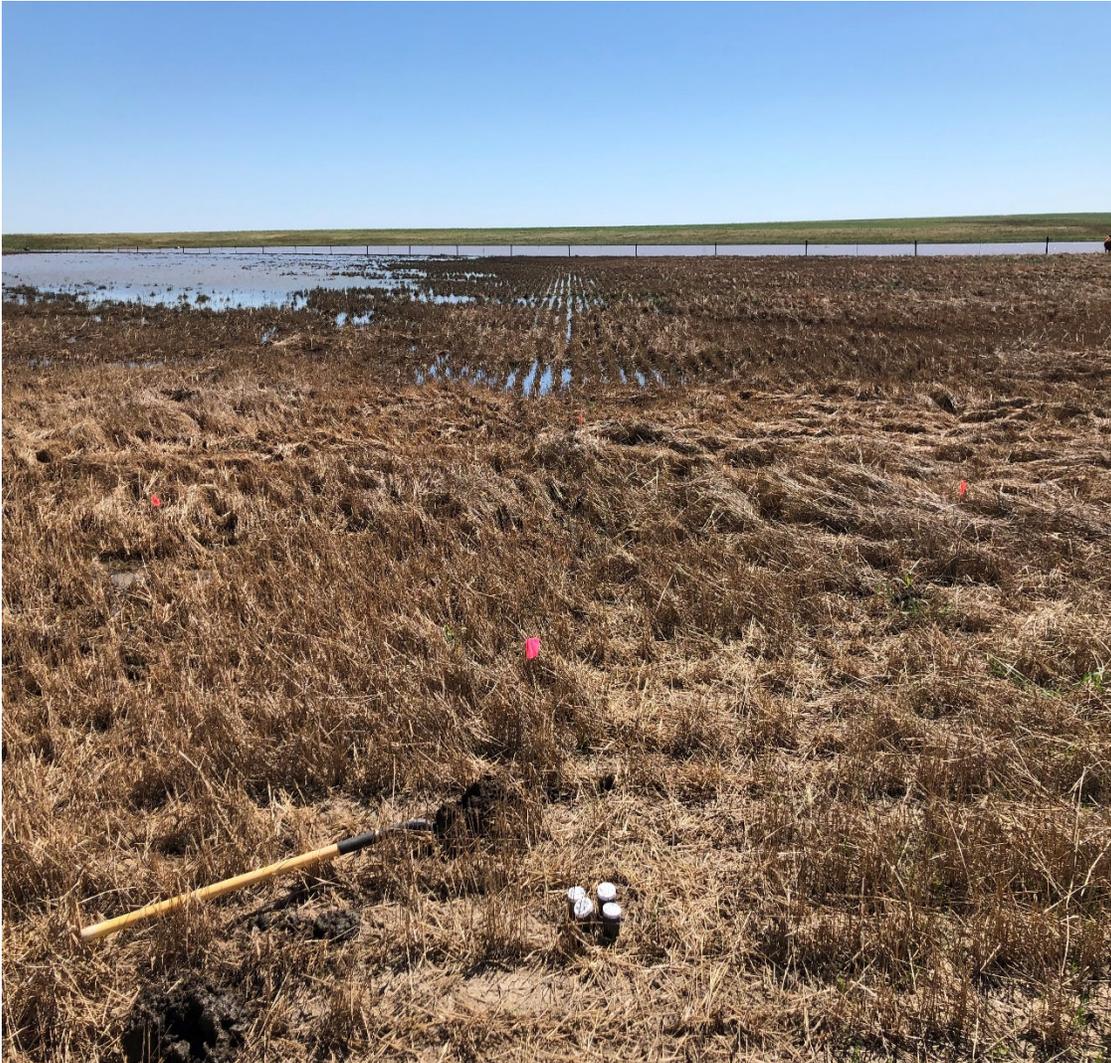
Spill 4 Soil Sample Location 8/1/2023

INVESTMENT EQUIPMENT LLC  
COLORADO STATE LOCATION CLOSURE  
SWNW Sec 36 - T 3S - R 53W  
Soil Sample Location Photos



Spill 2 Area (S2N, S2S, S2E, S2W) Soil Sample Locations 8/16/2023

INVESTMENT EQUIPMENT LLC  
COLORADO STATE LOCATION CLOSURE  
SWNW Sec 36 - T 3S - R 53W  
Soil Sample Location Photos



Spill 2 Area (S2N, S2S, S2E, S2W) Soil Sample Locations 8/16/2023

INVESTMENT EQUIPMENT LLC  
COLORADO STATE LOCATION CLOSURE  
SWNW Sec 36 - T 3S - R 53W  
Soil Sample Location Photos



Spill 2 Area (S2N, S2S, S2E, S2W) Soil Sample Locations 8/16/2023

## Exhibit A

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

December 23, 2021

Carter Peace

GIS Peace

2951 Niagara St

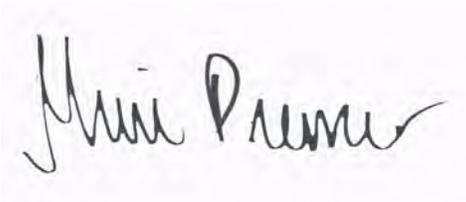
Denver, CO 80207

RE: CO State #1 Pit Closure

Work Order #2112084

Enclosed are the results of analyses for samples received by Summit Scientific on 12/03/21 10:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Muri Premer". The signature is written in a cursive style with a large initial 'M' and a long, sweeping tail on the 'er'.

Muri Premer For Paul Shrewsbury  
President



GIS Peace  
2951 Niagara St  
Denver CO, 80207

Project: CO State #1 Pit Closure

Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
12/23/21 11:37

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WPWW	2112084-01	Soil	12/02/21 00:00	12/03/21 10:30
WPNW	2112084-02	Soil	12/02/21 00:00	12/03/21 10:30
WPEW	2112084-03	Soil	12/02/21 00:00	12/03/21 10:30
WPSW	2112084-04	Soil	12/02/21 00:00	12/03/21 10:30
EPWW	2112084-05	Soil	12/02/21 00:00	12/03/21 10:30
EPNW	2112084-06	Soil	12/02/21 00:00	12/03/21 10:30
EPEW	2112084-07	Soil	12/02/21 00:00	12/03/21 10:30
EPSW	2112084-08	Soil	12/02/21 00:00	12/03/21 10:30

Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

# Summit Scientific

S<sub>2</sub>

2112084

4653 Table Mountain Drive ♦ Golden, Colorado 80403  
303-277-9310

Client: GIS PEACE Project Manager: C. PEACE Page 1 of 1  
Address: \_\_\_\_\_ E-Mail: \_\_\_\_\_  
City/State/Zip: \_\_\_\_\_  
Phone: \_\_\_\_\_ Project Name: CO STATE #1 PIT CLOSURE  
Sampler Name: CJP Project Number: \_\_\_\_\_

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested						Special Instructions
					HCl	HNO <sub>3</sub>	None	Other	Water	Soil	Air-Canister #	Other							
1	WPWW	12/2/21					X				X								
2	WPNW																		
3	WPEW																		
4	WPSW																		
5	EPWW																		
6	EPNW																		
7	EP EW																		
8	EPSW																		
9																			
10																			

Relinquished by: <u>[Signature]</u> Date/Time: <u>12/3/21 10:30</u>	Received by: <u>[Signature]</u> Date/Time: <u>12-3-21 10:30</u>	<b>Turn Around Time</b> (Check) Same Day <input type="checkbox"/> 72 hours 24 hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 48 hours <input type="checkbox"/> <b>Sample Integrity:</b> Temperature Upon Receipt: <u>8.2</u> Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No	<b>Full GIS Notes:</b> ORGANICS - GMBTEX DRO/ORO/GRO PAH
Relinquished by: _____ Date/Time: _____	Received by: _____ Date/Time: _____		
Relinquished by: _____ Date/Time: _____	Received by: _____ Date/Time: _____		

S<sub>2</sub>

2112084

Sample Receipt Checklist

S2 Work Order# \_\_\_\_\_

Client: GIS PEACE Client Project ID: Co State #1 PIT Closure

Shipped Via:  H.D.  P.U.  FedEx/UPS/USPS/Other \_\_\_\_\_ Airbill #: \_\_\_\_\_

Matrix (check all that apply):  Air  Soil/Solid  Water  Other: \_\_\_\_\_ (Describe)

Temp (°C) 7.2

Thermometer ID: G86A9201901378

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C <sup>(1)</sup> ? 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"/>	<u>ONICE</u>
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples with holding times due within 48 hours sample due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded <sup>(1)</sup> ?	<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) <sup>(1)</sup> ? Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2 <sup>(1)</sup> ? 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):

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.

[Signature] 12-3-21  
Custodian Printed Name or Initials Date/Time



GIS Peace  
2951 Niagara St  
Denver CO, 80207

Project: CO State #1 Pit Closure

Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
12/23/21 11:37

**WPWW**  
**2112084-01 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **12/02/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BEL0140	12/07/21	12/08/21	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **12/02/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		114 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		112 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		114 %		21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **12/02/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BEL0141	12/07/21	12/08/21	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **12/02/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl		111 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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GIS Peace  
2951 Niagara St  
Denver CO, 80207

Project: CO State #1 Pit Closure

Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
12/23/21 11:37

**WPWW**  
**2112084-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **12/02/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BEL0154	12/08/21	12/13/21	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
<b>Chrysene</b>	<b>0.00799</b>	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **12/02/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		79.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		67.6 %	40-150		"	"	"	"	

Summit Scientific

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GIS Peace  
2951 Niagara St  
Denver CO, 80207

Project: CO State #1 Pit Closure

Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
12/23/21 11:37

**WPNW**  
**2112084-02 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **12/02/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BEL0140	12/07/21	12/08/21	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **12/02/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		120 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		126 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		125 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **12/02/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>C10-C28 (DRO)</b>	<b>7000</b>	50	mg/kg	1	BEL0141	12/07/21	12/08/21	EPA 8015M	
<b>C28-C36 (ORO)</b>	<b>1300</b>	50	"	"	"	"	"	"	

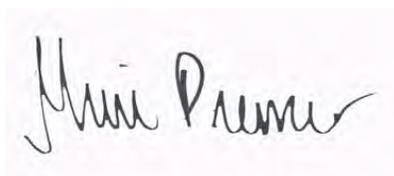
Date Sampled: **12/02/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		96.4 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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GIS Peace  
2951 Niagara St  
Denver CO, 80207

Project: CO State #1 Pit Closure

Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
12/23/21 11:37

**WPNW**  
**2112084-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **12/02/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BEL0154	12/08/21	12/13/21	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
<b>Chrysene</b>	<b>0.0343</b>	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
<b>Pyrene</b>	<b>0.0142</b>	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **12/02/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		72.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		69.3 %	40-150		"	"	"	"	

Summit Scientific

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GIS Peace  
2951 Niagara St  
Denver CO, 80207

Project: CO State #1 Pit Closure

Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
12/23/21 11:37

**WPEW**  
**2112084-03 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **12/02/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BEL0140	12/07/21	12/08/21	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **12/02/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		118 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		105 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **12/02/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BEL0141	12/07/21	12/08/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

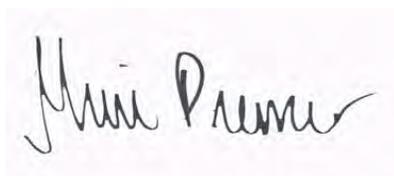
Date Sampled: **12/02/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		111 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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GIS Peace  
2951 Niagara St  
Denver CO, 80207

Project: CO State #1 Pit Closure

Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
12/23/21 11:37

**WPEW**  
**2112084-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **12/02/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BEL0154	12/08/21	12/13/21	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
<b>Chrysene</b>	<b>0.00953</b>	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **12/02/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		63.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		53.4 %	40-150		"	"	"	"	

Summit Scientific

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GIS Peace  
2951 Niagara St  
Denver CO, 80207

Project: CO State #1 Pit Closure

Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
12/23/21 11:37

**WPSW**  
**2112084-04 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **12/02/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BEL0140	12/07/21	12/08/21	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **12/02/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		110 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		117 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		114 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **12/02/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BEL0141	12/07/21	12/08/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

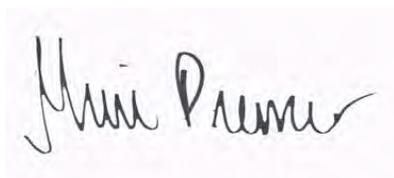
Date Sampled: **12/02/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		92.7 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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GIS Peace  
2951 Niagara St  
Denver CO, 80207

Project: CO State #1 Pit Closure

Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
12/23/21 11:37

**WPSW**  
**2112084-04 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **12/02/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BEL0154	12/08/21	12/13/21	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
<b>Benzo (b) fluoranthene</b>	<b>0.0221</b>	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
<b>Chrysene</b>	<b>0.0434</b>	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
<b>Pyrene</b>	<b>0.0401</b>	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **12/02/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	65.8 %	40-150			"	"	"	"	
Surrogate: Fluoranthene-d10	42.3 %	40-150			"	"	"	"	

Summit Scientific

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GIS Peace  
2951 Niagara St  
Denver CO, 80207

Project: CO State #1 Pit Closure

Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
12/23/21 11:37

**EPWW**  
**2112084-05 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **12/02/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BEL0140	12/07/21	12/08/21	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **12/02/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		123 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		107 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		114 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **12/02/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BEL0141	12/07/21	12/08/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

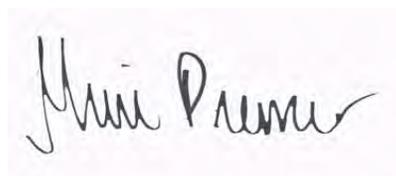
Date Sampled: **12/02/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		82.0 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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GIS Peace  
2951 Niagara St  
Denver CO, 80207

Project: CO State #1 Pit Closure

Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
12/23/21 11:37

**EPWW**  
**2112084-05 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **12/02/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BEL0154	12/08/21	12/13/21	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
<b>Chrysene</b>	<b>0.00841</b>	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **12/02/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		57.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		49.3 %	40-150		"	"	"	"	

Summit Scientific

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GIS Peace  
2951 Niagara St  
Denver CO, 80207

Project: CO State #1 Pit Closure

Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
12/23/21 11:37

**EPNW**  
**2112084-06 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **12/02/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BEL0140	12/07/21	12/08/21	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **12/02/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		122 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		109 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		113 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **12/02/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BEL0141	12/07/21	12/08/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

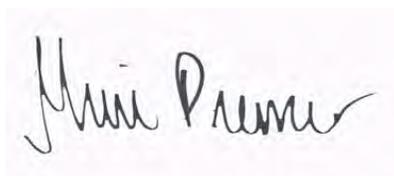
Date Sampled: **12/02/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		106 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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GIS Peace  
2951 Niagara St  
Denver CO, 80207

Project: CO State #1 Pit Closure

Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
12/23/21 11:37

**EPNW**  
**2112084-06 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **12/02/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BEL0154	12/08/21	12/13/21	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **12/02/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		48.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		54.5 %	40-150		"	"	"	"	

Summit Scientific

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GIS Peace  
2951 Niagara St  
Denver CO, 80207

Project: CO State #1 Pit Closure

Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
12/23/21 11:37

**EPEW**  
**2112084-07 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **12/02/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BEL0140	12/07/21	12/08/21	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **12/02/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		121 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		110 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **12/02/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BEL0141	12/07/21	12/08/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

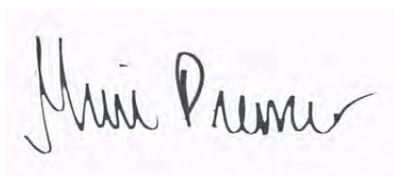
Date Sampled: **12/02/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		97.7 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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GIS Peace  
2951 Niagara St  
Denver CO, 80207

Project: CO State #1 Pit Closure

Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
12/23/21 11:37

**EPEW**  
**2112084-07 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **12/02/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BEL0154	12/08/21	12/13/21	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **12/02/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		59.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		42.4 %	40-150		"	"	"	"	

Summit Scientific

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GIS Peace  
2951 Niagara St  
Denver CO, 80207

Project: CO State #1 Pit Closure

Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
12/23/21 11:37

**EPSW**  
**2112084-08 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **12/02/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BEL0140	12/07/21	12/08/21	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **12/02/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		121 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		113 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **12/02/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BEL0141	12/07/21	12/08/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

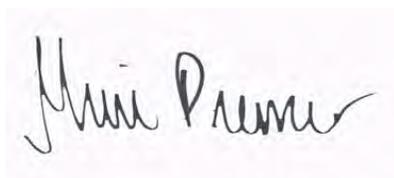
Date Sampled: **12/02/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		95.9 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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GIS Peace  
2951 Niagara St  
Denver CO, 80207

Project: CO State #1 Pit Closure

Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
12/23/21 11:37

**EPSW**  
**2112084-08 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **12/02/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BEL0154	12/08/21	12/13/21	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **12/02/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		62.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		43.5 %	40-150		"	"	"	"	

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GIS Peace  
2951 Niagara St  
Denver CO, 80207

Project: CO State #1 Pit Closure

Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
12/23/21 11:37

### Volatile Organic Compounds by EPA Method 8260B - Quality Control

#### Summit Scientific

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

#### Batch BEL0140 - EPA 5030 Soil MS

##### Blank (BEL0140-BLK1)

Prepared & Analyzed: 12/07/21

Benzene	ND	0.0020	mg/kg								
Toluene	ND	0.0050	"								
Ethylbenzene	ND	0.0050	"								
Xylenes (total)	ND	0.010	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
Naphthalene	ND	0.0038	"								
Gasoline Range Hydrocarbons	ND	0.50	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0445		"	0.0400		111		23-173			
<i>Surrogate: Toluene-d8</i>	0.0429		"	0.0400		107		20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0427		"	0.0400		107		21-167			

##### LCS (BEL0140-BS1)

Prepared: 12/07/21 Analyzed: 12/08/21

Benzene	0.0674	0.0020	mg/kg	0.0750		89.8		70-130			
Toluene	0.0758	0.0050	"	0.0750		101		70-130			
Ethylbenzene	0.0578	0.0050	"	0.0750		77.1		70-130			
m,p-Xylene	0.117	0.010	"	0.150		78.3		70-130			
o-Xylene	0.0631	0.0050	"	0.0750		84.2		70-130			
1,2,4-Trimethylbenzene	0.0619	0.0050	"	0.0750		82.6		70-130			
1,3,5-Trimethylbenzene	ND	0.0050	"	0.0750				70-130			
Naphthalene	0.0696	0.0038	"	0.0750		92.8		70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0469		"	0.0400		117		23-173			
<i>Surrogate: Toluene-d8</i>	0.0438		"	0.0400		109		20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0433		"	0.0400		108		21-167			

##### Matrix Spike (BEL0140-MS1)

Source: 2112067-01

Prepared: 12/07/21 Analyzed: 12/08/21

Benzene	0.0677	0.0020	mg/kg	0.0750	ND	90.2		70-130			
Toluene	0.0745	0.0050	"	0.0750	ND	99.3		70-130			
Ethylbenzene	0.0579	0.0050	"	0.0750	ND	77.2		70-130			
m,p-Xylene	0.118	0.010	"	0.150	ND	79.0		70-130			
o-Xylene	0.0632	0.0050	"	0.0750	ND	84.2		70-130			
1,2,4-Trimethylbenzene	0.0628	0.0050	"	0.0750	ND	83.7		70-130			
1,3,5-Trimethylbenzene	0.0639	0.0050	"	0.0750	ND	85.2		70-130			
Naphthalene	0.0741	0.0038	"	0.0750	ND	98.8		70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0470		"	0.0400		117		23-173			
<i>Surrogate: Toluene-d8</i>	0.0434		"	0.0400		108		20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0435		"	0.0400		109		21-167			

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GIS Peace  
2951 Niagara St  
Denver CO, 80207

Project: CO State #1 Pit Closure

Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
12/23/21 11:37

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**Summit Scientific**

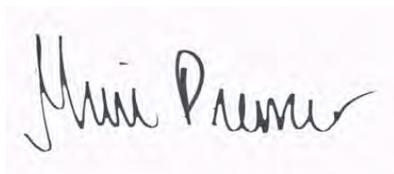
Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD		

**Batch BEL0140 - EPA 5030 Soil MS**

Matrix Spike Dup (BEL0140-MSD1)	Source: 2112067-01			Prepared: 12/07/21 Analyzed: 12/08/21						
Benzene	0.0646	0.0020	mg/kg	0.0750	ND	86.2	70-130	4.58	30	
Toluene	0.0764	0.0050	"	0.0750	ND	102	70-130	2.58	30	
Ethylbenzene	0.0624	0.0050	"	0.0750	ND	83.2	70-130	7.49	30	
m,p-Xylene	0.127	0.010	"	0.150	ND	84.8	70-130	7.18	30	
o-Xylene	0.0663	0.0050	"	0.0750	ND	88.4	70-130	4.86	30	
1,2,4-Trimethylbenzene	0.0664	0.0050	"	0.0750	ND	88.5	70-130	5.58	30	
1,3,5-Trimethylbenzene	0.0676	0.0050	"	0.0750	ND	90.2	70-130	5.66	30	
Naphthalene	0.0751	0.0038	"	0.0750	ND	100	70-130	1.33	30	
Surrogate: 1,2-Dichloroethane-d4	0.0442		"	0.0400		110	23-173			
Surrogate: Toluene-d8	0.0438		"	0.0400		110	20-170			
Surrogate: 4-Bromofluorobenzene	0.0410		"	0.0400		102	21-167			

Summit Scientific

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GIS Peace  
2951 Niagara St  
Denver CO, 80207

Project: CO State #1 Pit Closure

Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
12/23/21 11:37

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

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

**Batch BEL0141 - EPA 3550A**

**Blank (BEL0141-BLK1)**

Prepared & Analyzed: 12/07/21

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							

**LCS (BEL0141-BS1)**

Prepared & Analyzed: 12/07/21

C10-C28 (DRO)	402	50	mg/kg	400	101	70-130				
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**Matrix Spike (BEL0141-MS1)**

Source: 2112067-01

Prepared: 12/07/21 Analyzed: 12/08/21

C10-C28 (DRO)	355	50	mg/kg	400	40.5	78.6	70-130			
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**Matrix Spike Dup (BEL0141-MSD1)**

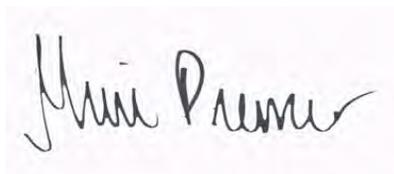
Source: 2112067-01

Prepared: 12/07/21 Analyzed: 12/08/21

C10-C28 (DRO)	342	50	mg/kg	400	40.5	75.3	70-130	3.76	20	
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Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*





GIS Peace  
2951 Niagara St  
Denver CO, 80207

Project: CO State #1 Pit Closure

Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
12/23/21 11:37

**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 BEL0154 - EPA 5030 Soil MS**

**Blank (BEL0154-BLK1)**

Prepared: 12/08/21 Analyzed: 12/12/21

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0316		"	0.0333		94.7	40-150			
Surrogate: Fluoranthene-d10	0.0272		"	0.0333		81.7	40-150			

**LCS (BEL0154-BS1)**

Prepared: 12/08/21 Analyzed: 12/12/21

Acenaphthene	0.0210	0.00500	mg/kg	0.0333		63.0	31-137			
Anthracene	0.0225	0.00500	"	0.0333		67.5	30-120			
Benzo (a) anthracene	0.0234	0.00500	"	0.0333		70.1	30-120			
Benzo (a) pyrene	0.0243	0.00500	"	0.0333		72.9	30-120			
Benzo (b) fluoranthene	0.0261	0.00500	"	0.0333		78.3	30-120			
Benzo (k) fluoranthene	0.0262	0.00500	"	0.0333		78.7	30-120			
Chrysene	0.0222	0.00500	"	0.0333		66.7	30-120			
Dibenz (a,h) anthracene	0.0207	0.00500	"	0.0333		62.0	30-120			
Fluoranthene	0.0213	0.00500	"	0.0333		63.8	30-120			
Fluorene	0.0229	0.00500	"	0.0333		68.8	30-120			
Indeno (1,2,3-cd) pyrene	0.0150	0.00500	"	0.0333		44.9	30-120			
Pyrene	0.0270	0.00500	"	0.0333		81.0	35-142			
1-Methylnaphthalene	0.0232	0.00500	"	0.0333		69.7	35-142			
2-Methylnaphthalene	0.0216	0.00500	"	0.0333		64.9	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0237		"	0.0333		71.0	40-150			
Surrogate: Fluoranthene-d10	0.0238		"	0.0333		71.5	40-150			

Summit Scientific

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GIS Peace  
2951 Niagara St  
Denver CO, 80207

Project: CO State #1 Pit Closure

Project Number: [none]  
Project Manager: Carter Peace

Reported:  
12/23/21 11:37

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 BEL0154 - EPA 5030 Soil MS

Matrix Spike (BEL0154-MS1)	Source: 2112036-01			Prepared: 12/08/21 Analyzed: 12/12/21							
Acenaphthene	0.0687	0.00500	mg/kg	0.0333	0.00939	178	31-137				QM-07
Anthracene	0.275	0.00500	"	0.0333	0.128	441	30-120				QM-07
Benzo (a) anthracene	0.305	0.00500	"	0.0333	0.116	568	30-120				QM-07
Benzo (a) pyrene	0.224	0.00500	"	0.0333	0.112	338	30-120				QM-07
Benzo (b) fluoranthene	0.400	0.00500	"	0.0333	0.238	486	30-120				QM-07
Benzo (k) fluoranthene	0.166	0.00500	"	0.0333	0.0903	227	30-120				QM-07
Chrysene	0.383	0.00500	"	0.0333	0.153	689	30-120				QM-07
Dibenz (a,h) anthracene	0.0306	0.00500	"	0.0333	ND	91.8	30-120				
Fluoranthene	0.545	0.00500	"	0.0333	0.237	923	30-120				QM-07
Fluorene	0.0723	0.00500	"	0.0333	0.00637	198	30-120				QM-07
Indeno (1,2,3-cd) pyrene	0.103	0.00500	"	0.0333	0.0431	180	30-120				QM-07
Pyrene	0.949	0.00500	"	0.0333	0.332	NR	35-142				QM-07
1-Methylnaphthalene	0.0316	0.00500	"	0.0333	ND	94.8	15-130				
2-Methylnaphthalene	0.0295	0.00500	"	0.0333	ND	88.6	15-130				
Surrogate: 2-Methylnaphthalene-d10	0.0237		"	0.0333		71.2	40-150				
Surrogate: Fluoranthene-d10	0.0241		"	0.0333		72.4	40-150				

Matrix Spike Dup (BEL0154-MSD1)	Source: 2112036-01			Prepared: 12/08/21 Analyzed: 12/12/21							
Acenaphthene	0.0323	0.00500	mg/kg	0.0333	0.00939	68.6	31-137	72.2	30		QM-07
Anthracene	0.136	0.00500	"	0.0333	0.128	24.2	30-120	67.5	30		QM-07
Benzo (a) anthracene	0.110	0.00500	"	0.0333	0.116	NR	30-120	94.1	30		QM-07
Benzo (a) pyrene	0.102	0.00500	"	0.0333	0.112	NR	30-120	74.9	30		QM-07
Benzo (b) fluoranthene	0.193	0.00500	"	0.0333	0.238	NR	30-120	69.8	30		QM-07
Benzo (k) fluoranthene	0.0875	0.00500	"	0.0333	0.0903	NR	30-120	62.0	30		QM-07
Chrysene	0.134	0.00500	"	0.0333	0.153	NR	30-120	96.4	30		QM-07
Dibenz (a,h) anthracene	0.0175	0.00500	"	0.0333	ND	52.5	30-120	54.5	30		QM-07
Fluoranthene	0.200	0.00500	"	0.0333	0.237	NR	30-120	92.5	30		QM-07
Fluorene	0.0318	0.00500	"	0.0333	0.00637	76.4	30-120	77.7	30		QM-07
Indeno (1,2,3-cd) pyrene	0.0484	0.00500	"	0.0333	0.0431	15.8	30-120	72.3	30		QM-07
Pyrene	0.274	0.00500	"	0.0333	0.332	NR	35-142	110	30		QM-07
1-Methylnaphthalene	0.0256	0.00500	"	0.0333	ND	76.7	15-130	21.1	50		
2-Methylnaphthalene	0.0239	0.00500	"	0.0333	ND	71.8	15-130	21.0	50		
Surrogate: 2-Methylnaphthalene-d10	0.0217		"	0.0333		65.1	40-150				
Surrogate: Fluoranthene-d10	0.0194		"	0.0333		58.1	40-150				

Summit Scientific

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GIS Peace  
2951 Niagara St  
Denver CO, 80207

Project: CO State #1 Pit Closure

Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
12/23/21 11:37

### Notes and Definitions

- 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

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

April 27, 2022

Carter Peace

GIS Peace

2951 Niagara St

Denver, CO 80207

RE: Colorado State Location Closure

Work Order #2204282

Enclosed are the results of analyses for samples received by Summit Scientific on 04/19/22 14:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury

President



GIS Peace  
2951 Niagara St  
Denver CO, 80207

Project: Colorado State Location Closure

Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
04/27/22 12:04

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WPB	2204282-01	Soil	04/19/22 00:00	04/19/22 14:45
EPBN	2204282-02	Soil	04/19/22 00:00	04/19/22 14:45
EPBS	2204282-03	Soil	04/19/22 00:00	04/19/22 14:45
TB	2204282-04	Soil	04/19/22 00:00	04/19/22 14:45
ST	2204282-05	Soil	04/19/22 00:00	04/19/22 14:45
HT	2204282-06	Soil	04/19/22 00:00	04/19/22 14:45
WPNW	2204282-07	Soil	04/19/22 00:00	04/19/22 14:45

Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

# Summit Scientific

2204282

S<sub>2</sub>

4653 Table Mountain Drive ♦ Golden, Colorado 80403  
303-277-9310

Client: GIS PEACE

Project Manager: C. PEACE

Page 1 of 1

Address:

E-Mail:

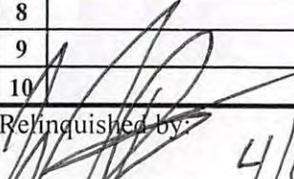
City/State/Zip:

Phone:

Project Name: COLORADO STATE LOCATION CLOSURE

Sampler Name: CJP

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested				Special Instructions
					HCl	HNO <sub>3</sub>	None	Other	Water	Soil	Air-Canister #	Other	GNBTEX	DRO 8015	915 ORGANICS	DRO	
1	WPB						X			X			X	X	X	X	
2	EPBN						X			X			X	X	X	X	
3	EPBS						X			X			X	X	X	X	
4	TB						X			X			X	X	X	X	
5	ST						X			X			X	X	X	X	
6	HT						X			X			X	X	X	X	
7	WPNW			X			X			X			X	X	X	X	
8																	
9																	
10																	
Relinquished by: 		Date/Time: <u>4/19/22 2:45</u>		Received by: <u>Shere Banda</u>		Date/Time: <u>4/19/22 4:45</u>		Turn Around Time (Check)				Notes:					
Relinquished by:		Date/Time:		Received by:		Date/Time:		Same Day				72 hours					
								24 hours				Standard					
								48 hours				<del>Standard</del>					
Temperature Upon Receipt: <u>8.6</u>		Corrected Temperature _____		HNO <sub>3</sub> lot # _____		Sample Integrity: <u>CP</u>				Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No							
IR gun correction: _____		IR gun #: _____															

# S<sub>2</sub>

S2 Work Order# 2204282

## Sample Receipt Checklist

Client: GIS Peace Client Project ID: Colorado State

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other \_\_\_\_\_ Airbill #: \_\_\_\_\_

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
-------------------------------------	--------------------------	--------------------------	--------------------------	--------------------------

Matrix (Check all that apply) Air  Soil/Solid  Water  Other Temp (°C)  Thermometer # 

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6 °C <sup>(1)</sup> ? <b>NOTE:</b> 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"/>	ice
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact <sup>(1)</sup> ?	<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"/>	24 hour
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , 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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling) <sup>(1)</sup> ? Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2 <sup>(1)</sup> ? 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):				
<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.				

SB  
Custodian Printed Name

4/19/22 14:45  
Date/Time



GIS Peace  
2951 Niagara St  
Denver CO, 80207

Project: Colorado State Location Closure

Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
04/27/22 12:04

**WPB**  
**2204282-01 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/19/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BFD0397	04/19/22	04/19/22	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>1100</b>	<b>50</b>		"	100	"	"	"	"	

Date Sampled: **04/19/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		122 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		102 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		196 %		50-150		"	"	"	"	S-02

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/19/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>C10-C28 (DRO)</b>	<b>1500</b>	<b>50</b>		mg/kg	1	BFD0398	04/19/22	04/19/22	EPA 8015M	
<b>C28-C36 (ORO)</b>	<b>290</b>	<b>50</b>		"	"	"	"	"	"	

Date Sampled: **04/19/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl		106 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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GIS Peace  
2951 Niagara St  
Denver CO, 80207

Project: Colorado State Location Closure

Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
04/27/22 12:04

**WPB**  
**2204282-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/19/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFD0400	04/20/22	04/22/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	"
<b>Benzo (b) fluoranthene</b>	<b>0.0677</b>	0.00500	"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	"
<b>Chrysene</b>	<b>0.136</b>	0.00500	"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	"
Fluoranthene	ND	0.00500	"	"	"	"	"	"	"
Fluorene	ND	0.00500	"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	"
<b>Pyrene</b>	<b>0.146</b>	0.00500	"	"	"	"	"	"	"
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	"

Date Sampled: **04/19/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	69.2 %	40-150			"	"	"	"	
Surrogate: Fluoranthene-d10	9.70 %	40-150			"	"	"	"	S-02

Summit Scientific

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GIS Peace  
2951 Niagara St  
Denver CO, 80207

Project: Colorado State Location Closure

Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
04/27/22 12:04

**EPBN**  
**2204282-02 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/19/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFD0397	04/19/22	04/19/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>1.9</b>	<b>0.50</b>	"	"	"	"	"	"	

Date Sampled: **04/19/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		120 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		98.9 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		144 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/19/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFD0398	04/19/22	04/19/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/19/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		102 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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GIS Peace  
2951 Niagara St  
Denver CO, 80207

Project: Colorado State Location Closure

Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
04/27/22 12:04

**EPBN**  
**2204282-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/19/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFD0400	04/20/22	04/22/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
<b>Chrysene</b>	<b>0.0355</b>	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/19/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		65.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		47.7 %	40-150		"	"	"	"	

Summit Scientific

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Project: Colorado State Location Closure

Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
04/27/22 12:04

**EPBS**  
**2204282-03 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/19/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFD0397	04/19/22	04/19/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>0.86</b>	0.50	"	"	"	"	"	"	

Date Sampled: **04/19/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		125 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		104 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		123 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/19/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFD0398	04/19/22	04/19/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/19/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		80.0 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project: Colorado State Location Closure

Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
04/27/22 12:04

**EPBS**  
**2204282-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/19/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFD0400	04/20/22	04/22/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
<b>Chrysene</b>	<b>0.00510</b>	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/19/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		54.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		47.3 %	40-150		"	"	"	"	

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Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
04/27/22 12:04

**TB**  
**2204282-04 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/19/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFD0397	04/19/22	04/19/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/19/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		115 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		104 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		112 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/19/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFD0398	04/19/22	04/19/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/19/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		92.7 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project: Colorado State Location Closure

Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
04/27/22 12:04

**TB**  
**2204282-04 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/19/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFD0400	04/20/22	04/22/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/19/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		54.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		44.9 %	40-150		"	"	"	"	

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Project: Colorado State Location Closure

Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
04/27/22 12:04

**ST**  
**2204282-05 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/19/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFD0397	04/19/22	04/19/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/19/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		115 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.3 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/19/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFD0398	04/19/22	04/19/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/19/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		87.4 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

**R-01**

Summit Scientific

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Project: Colorado State Location Closure

Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
04/27/22 12:04

**ST**  
**2204282-05 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

**R-01**

Date Sampled: **04/19/22 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Acenaphthene	ND	0.0500	mg/kg	10	BFD0400	04/20/22	04/23/22	EPA 8270D SIM	
Anthracene	ND	0.0500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.0500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.0500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.0500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.0500	"	"	"	"	"	"	
Chrysene	ND	0.0500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.0500	"	"	"	"	"	"	
Fluoranthene	ND	0.0500	"	"	"	"	"	"	
Fluorene	ND	0.0500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.0500	"	"	"	"	"	"	
Pyrene	ND	0.0500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.0500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.0500	"	"	"	"	"	"	

Date Sampled: **04/19/22 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 2-Methylnaphthalene-d10		47.2 %		40-150	"	"	"	"	
Surrogate: Fluoranthene-d10		53.6 %		40-150	"	"	"	"	

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Project: Colorado State Location Closure

Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
04/27/22 12:04

**HT**  
**2204282-06 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/19/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFD0397	04/19/22	04/19/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/19/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		118 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.9 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/19/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFD0398	04/19/22	04/19/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/19/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		90.9 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Project: Colorado State Location Closure

Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
04/27/22 12:04

**HT**  
**2204282-06 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/19/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFD0400	04/20/22	04/22/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	"
Chrysene	ND	0.00500	"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	"
Fluoranthene	ND	0.00500	"	"	"	"	"	"	"
Fluorene	ND	0.00500	"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	"
Pyrene	ND	0.00500	"	"	"	"	"	"	"
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	"

Date Sampled: **04/19/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		60.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		42.3 %	40-150		"	"	"	"	

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Project: Colorado State Location Closure

Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
04/27/22 12:04

**WPNW**  
**2204282-07 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/19/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFD0397	04/19/22	04/19/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>1.4</b>	<b>0.50</b>	"	"	"	"	"	"	

Date Sampled: **04/19/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		104 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		104 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		141 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/19/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>C10-C28 (DRO)</b>	<b>320</b>	50	mg/kg	1	BFD0398	04/19/22	04/19/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/19/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		96.3 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

**R-01**

Summit Scientific

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Project: Colorado State Location Closure

Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
04/27/22 12:04

**WPNW**  
**2204282-07 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

**R-01**

Date Sampled: **04/19/22 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Acenaphthene	ND	0.0500	mg/kg	10	BFD0400	04/20/22	04/23/22	EPA 8270D SIM	
Anthracene	ND	0.0500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.0500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.0500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.0500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.0500	"	"	"	"	"	"	
Chrysene	ND	0.0500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.0500	"	"	"	"	"	"	
Fluoranthene	ND	0.0500	"	"	"	"	"	"	
Fluorene	ND	0.0500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.0500	"	"	"	"	"	"	
Pyrene	ND	0.0500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.0500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.0500	"	"	"	"	"	"	

Date Sampled: **04/19/22 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 2-Methylnaphthalene-d10		54.4 %		40-150	"	"	"	"	
Surrogate: Fluoranthene-d10		58.2 %		40-150	"	"	"	"	

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GIS Peace  
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Project: Colorado State Location Closure

Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
04/27/22 12:04

### Volatile Organic Compounds by EPA Method 8260B - Quality Control

#### Summit Scientific

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

#### Batch BFD0397 - EPA 5030 Soil MS

##### Blank (BFD0397-BLK1)

Prepared: 04/19/22 Analyzed: 04/20/22

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0390		"	0.0400		97.4	50-150			
<i>Surrogate: Toluene-d8</i>	0.0408		"	0.0400		102	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0379		"	0.0400		94.8	50-150			

##### LCS (BFD0397-BS1)

Prepared: 04/19/22 Analyzed: 04/20/22

Benzene	0.0628	0.0020	mg/kg	0.0750		83.7	70-130			
Toluene	0.0683	0.0050	"	0.0750		91.1	70-130			
Ethylbenzene	0.0622	0.0050	"	0.0750		82.9	70-130			
m,p-Xylene	0.126	0.010	"	0.150		83.8	70-130			
o-Xylene	0.0637	0.0050	"	0.0750		84.9	70-130			
1,2,4-Trimethylbenzene	0.0658	0.0050	"	0.0750		87.8	70-130			
1,3,5-Trimethylbenzene	0.0652	0.0050	"	0.0750		87.0	70-130			
Naphthalene	0.0653	0.0038	"	0.0750		87.1	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0405		"	0.0400		101	50-150			
<i>Surrogate: Toluene-d8</i>	0.0435		"	0.0400		109	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0418		"	0.0400		104	50-150			

##### Matrix Spike (BFD0397-MS1)

Source: 2204282-07

Prepared: 04/19/22 Analyzed: 04/20/22

Benzene	0.0621	0.0020	mg/kg	0.0750	ND	82.8	70-130			
Toluene	0.0695	0.0050	"	0.0750	ND	92.7	70-130			
Ethylbenzene	0.0710	0.0050	"	0.0750	ND	94.7	70-130			
m,p-Xylene	0.142	0.010	"	0.150	ND	94.7	70-130			
o-Xylene	0.0692	0.0050	"	0.0750	ND	92.2	70-130			
1,2,4-Trimethylbenzene	0.0716	0.0050	"	0.0750	ND	95.5	70-130			
1,3,5-Trimethylbenzene	0.0718	0.0050	"	0.0750	ND	95.8	70-130			
Naphthalene	0.0761	0.0038	"	0.0750	ND	101	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0403		"	0.0400		101	50-150			
<i>Surrogate: Toluene-d8</i>	0.0413		"	0.0400		103	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0576		"	0.0400		144	50-150			

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



GIS Peace  
2951 Niagara St  
Denver CO, 80207

Project: Colorado State Location Closure

Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
04/27/22 12:04

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**Summit Scientific**

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

**Batch BFD0397 - EPA 5030 Soil MS**

<b>Matrix Spike Dup (BFD0397-MSD1)</b>	<b>Source: 2204282-07</b>			<b>Prepared: 04/19/22 Analyzed: 04/20/22</b>						
Benzene	0.0605	0.0020	mg/kg	0.0750	ND	80.7	70-130	2.54	30	
Toluene	0.0678	0.0050	"	0.0750	ND	90.4	70-130	2.49	30	
Ethylbenzene	0.0676	0.0050	"	0.0750	ND	90.1	70-130	5.02	30	
m,p-Xylene	0.135	0.010	"	0.150	ND	89.7	70-130	5.47	30	
o-Xylene	0.0663	0.0050	"	0.0750	ND	88.4	70-130	4.16	30	
1,2,4-Trimethylbenzene	0.0677	0.0050	"	0.0750	ND	90.3	70-130	5.60	30	
1,3,5-Trimethylbenzene	0.0680	0.0050	"	0.0750	ND	90.6	70-130	5.54	30	
Naphthalene	0.0780	0.0038	"	0.0750	ND	104	70-130	2.49	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0379</i>		<i>"</i>	<i>0.0400</i>		<i>94.8</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0418</i>		<i>"</i>	<i>0.0400</i>		<i>105</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0559</i>		<i>"</i>	<i>0.0400</i>		<i>140</i>	<i>50-150</i>			

Summit Scientific

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GIS Peace  
2951 Niagara St  
Denver CO, 80207

Project: Colorado State Location Closure

Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
04/27/22 12:04

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

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

**Batch BFD0398 - EPA 3550A**

**Blank (BFD0398-BLK1)**

Prepared & Analyzed: 04/19/22

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								

**LCS (BFD0398-BS1)**

Prepared: 04/19/22 Analyzed: 04/20/22

C10-C28 (DRO)	421	50	mg/kg	500		84.2	70-130				
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**Matrix Spike (BFD0398-MS1)**

Source: 2204282-07

Prepared: 04/19/22 Analyzed: 04/20/22

C10-C28 (DRO)	617	50	mg/kg	500	319	59.8	70-130				QM-07
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**Matrix Spike Dup (BFD0398-MSD1)**

Source: 2204282-07

Prepared: 04/19/22 Analyzed: 04/20/22

C10-C28 (DRO)	647	50	mg/kg	500	319	65.6	70-130	4.63	20		QM-07
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Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



GIS Peace  
2951 Niagara St  
Denver CO, 80207

Project: Colorado State Location Closure

Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
04/27/22 12:04

**PAH by EPA Method 8270D SIM - Quality Control**

**Summit Scientific**

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

**Batch BFD0400 - EPA 5030 Soil MS**

**Blank (BFD0400-BLK1)**

Prepared: 04/20/22 Analyzed: 04/21/22

Acenaphthene	ND	0.00500	mg/kg								
Anthracene	ND	0.00500	"								
Benzo (a) anthracene	ND	0.00500	"								
Benzo (a) pyrene	ND	0.00500	"								
Benzo (b) fluoranthene	ND	0.00500	"								
Benzo (k) fluoranthene	ND	0.00500	"								
Chrysene	ND	0.00500	"								
Dibenz (a,h) anthracene	ND	0.00500	"								
Fluoranthene	ND	0.00500	"								
Fluorene	ND	0.00500	"								
Indeno (1,2,3-cd) pyrene	ND	0.00500	"								
Pyrene	ND	0.00500	"								
1-Methylnaphthalene	ND	0.00500	"								
2-Methylnaphthalene	ND	0.00500	"								
<i>Surrogate: 2-Methylnaphthalene-d10</i>	0.0264		"	0.0333	79.3	40-150					
<i>Surrogate: Fluoranthene-d10</i>	0.0310		"	0.0333	92.9	40-150					

**LCS (BFD0400-BS1)**

Prepared: 04/20/22 Analyzed: 04/21/22

Acenaphthene	0.0299	0.00500	mg/kg	0.0333	89.6	31-137					
Anthracene	0.0292	0.00500	"	0.0333	87.5	30-120					
Benzo (a) anthracene	0.0299	0.00500	"	0.0333	89.7	30-120					
Benzo (a) pyrene	0.0285	0.00500	"	0.0333	85.5	30-120					
Benzo (b) fluoranthene	0.0309	0.00500	"	0.0333	92.6	30-120					
Benzo (k) fluoranthene	0.0331	0.00500	"	0.0333	99.2	30-120					
Chrysene	0.0304	0.00500	"	0.0333	91.3	30-120					
Dibenz (a,h) anthracene	0.0174	0.00500	"	0.0333	52.1	30-120					
Fluoranthene	0.0307	0.00500	"	0.0333	92.0	30-120					
Fluorene	0.0300	0.00500	"	0.0333	90.0	30-120					
Indeno (1,2,3-cd) pyrene	0.0112	0.00500	"	0.0333	33.7	30-120					
Pyrene	0.0316	0.00500	"	0.0333	94.7	35-142					
1-Methylnaphthalene	0.0310	0.00500	"	0.0333	92.9	35-142					
2-Methylnaphthalene	0.0257	0.00500	"	0.0333	77.2	35-142					
<i>Surrogate: 2-Methylnaphthalene-d10</i>	0.0304		"	0.0333	91.3	40-150					
<i>Surrogate: Fluoranthene-d10</i>	0.0324		"	0.0333	97.3	40-150					

Summit Scientific

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GIS Peace  
2951 Niagara St  
Denver CO, 80207

Project: Colorado State Location Closure

Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
04/27/22 12:04

**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 BFD0400 - EPA 5030 Soil MS**

<b>Matrix Spike (BFD0400-MS1)</b>	<b>Source: 2204123-02</b>			<b>Prepared: 04/20/22 Analyzed: 04/21/22</b>							
Acenaphthene	0.0151	0.00500	mg/kg	0.0333	ND	45.3	31-137				
Anthracene	0.0161	0.00500	"	0.0333	ND	48.4	30-120				
Benzo (a) anthracene	0.0156	0.00500	"	0.0333	ND	46.9	30-120				
Benzo (a) pyrene	0.0140	0.00500	"	0.0333	ND	41.9	30-120				
Benzo (b) fluoranthene	0.0150	0.00500	"	0.0333	ND	44.9	30-120				
Benzo (k) fluoranthene	0.0152	0.00500	"	0.0333	ND	45.5	30-120				
Chrysene	0.0150	0.00500	"	0.0333	ND	45.0	30-120				
Dibenz (a,h) anthracene	0.0184	0.00500	"	0.0333	ND	55.0	30-120				
Fluoranthene	0.0173	0.00500	"	0.0333	ND	51.8	30-120				
Fluorene	0.0157	0.00500	"	0.0333	ND	47.2	30-120				
Indeno (1,2,3-cd) pyrene	0.0191	0.00500	"	0.0333	ND	57.4	30-120				
Pyrene	0.0163	0.00500	"	0.0333	ND	49.0	35-142				
1-Methylnaphthalene	0.0149	0.00500	"	0.0333	ND	44.8	15-130				
2-Methylnaphthalene	0.0133	0.00500	"	0.0333	ND	40.0	15-130				
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0143</i>		<i>"</i>	<i>0.0333</i>		<i>43.0</i>	<i>40-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0178</i>		<i>"</i>	<i>0.0333</i>		<i>53.5</i>	<i>40-150</i>				

<b>Matrix Spike Dup (BFD0400-MSD1)</b>	<b>Source: 2204123-02</b>			<b>Prepared: 04/20/22 Analyzed: 04/21/22</b>							
Acenaphthene	0.0165	0.00500	mg/kg	0.0333	ND	49.4	31-137	8.64	30		
Anthracene	0.0178	0.00500	"	0.0333	ND	53.4	30-120	9.78	30		
Benzo (a) anthracene	0.0181	0.00500	"	0.0333	ND	54.3	30-120	14.6	30		
Benzo (a) pyrene	0.0162	0.00500	"	0.0333	ND	48.6	30-120	15.0	30		
Benzo (b) fluoranthene	0.0170	0.00500	"	0.0333	ND	50.9	30-120	12.5	30		
Benzo (k) fluoranthene	0.0170	0.00500	"	0.0333	ND	51.0	30-120	11.5	30		
Chrysene	0.0177	0.00500	"	0.0333	ND	53.0	30-120	16.3	30		
Dibenz (a,h) anthracene	0.0200	0.00500	"	0.0333	ND	60.1	30-120	8.73	30		
Fluoranthene	0.0195	0.00500	"	0.0333	ND	58.5	30-120	12.1	30		
Fluorene	0.0176	0.00500	"	0.0333	ND	52.9	30-120	11.3	30		
Indeno (1,2,3-cd) pyrene	0.0170	0.00500	"	0.0333	ND	50.9	30-120	12.1	30		
Pyrene	0.0183	0.00500	"	0.0333	ND	54.8	35-142	11.2	30		
1-Methylnaphthalene	0.0175	0.00500	"	0.0333	ND	52.4	15-130	15.8	50		
2-Methylnaphthalene	0.0153	0.00500	"	0.0333	ND	45.9	15-130	13.8	50		
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0211</i>		<i>"</i>	<i>0.0333</i>		<i>63.3</i>	<i>40-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0199</i>		<i>"</i>	<i>0.0333</i>		<i>59.7</i>	<i>40-150</i>				

Summit Scientific

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GIS Peace  
2951 Niagara St  
Denver CO, 80207

Project: Colorado State Location Closure

Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
04/27/22 12:04

### Notes and Definitions

- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
- R-01 The Reporting Limit for this analyte has been raised to account for matrix interference.
- 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

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

August 01, 2022

Carter Peace

GIS Peace

2951 Niagara St

Denver, CO 80207

RE: Colorado State Location Closure

Work Order #2207300

Enclosed are the results of analyses for samples received by Summit Scientific on 07/21/22 13:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mikayla Axtell For Paul Shrewsbury  
President



GIS Peace  
2951 Niagara St  
Denver CO, 80207

Project: Colorado State Location Closure

Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
08/01/22 09:35

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WPB@7'	2207300-01	Soil	07/21/22 00:00	07/21/22 13:00

Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

# Summit Scientific

2207300

S<sub>2</sub>

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310

Client: COIS PEACE

Project Manager: C. PEACE

Page 1 of 1

Address:

E-Mail:

City/State/Zip:

Phone:

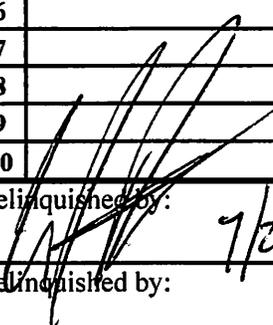
Project Name: CO STATE LOCATION CLOSURE

Sampler Name: CSP

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested				Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other					
1	WPB W 7'	7/21/22		1			X			X							
2	WPB W 8'	7/21/22		1			X			X							HOLD
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Relinquished by: 	Date/Time: <u>7/21/22 1300</u>	Received by: <u>Shera Bab</u>	Date/Time: <u>7/21/22 1300</u>	Turn Around Time (Check) Same Day <input type="checkbox"/> 72 hours 24 hours <input type="checkbox"/> Standard 48 hours <input type="checkbox"/>	Notes: HOLD WPB W 8' PENDING RESULTS OF WPB W 7'
Relinquished by:	Date/Time:	Received by:	Date/Time:		
Temperature Upon Receipt: <u>16.5</u>	Corrected Temperature _____	HNO3 lot # _____		Sample Integrity: <u>Yes</u> No	
IR gun correction: _____	IR gun #: _____				

S<sub>2</sub>

S2 Work Order# 2207300

Sample Receipt Checklist

Client: GIS PEACE Client Project ID: CO state location closure

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other \_\_\_\_\_ Airbill #: \_\_\_\_\_

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Matrix (Check all that apply) Air  Soil/Solid  Water  Other

Temp (°C)  Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6 °C <sup>(1)</sup> ? <b>NOTE:</b> 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"/>	ice
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact <sup>(1)</sup> ?	<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"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , 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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling) <sup>(1)</sup> ? Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2 <sup>(1)</sup> ? 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):

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.

S3  
Custodian Printed Name

7/21/22 13 00  
Date/Time



GIS Peace  
2951 Niagara St  
Denver CO, 80207

Project: Colorado State Location Closure

Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
08/01/22 09:35

**WPB@7'**  
**2207300-01 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **07/21/22 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BFG0414	07/22/22	07/28/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **07/21/22 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		111 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		105 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **07/21/22 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BFG0416	07/22/22	07/25/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **07/21/22 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl		102 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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2951 Niagara St  
Denver CO, 80207

Project: Colorado State Location Closure

Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
08/01/22 09:35

**WPB@7'**  
**2207300-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **07/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFG0412	07/22/22	07/24/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **07/21/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		80.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		80.0 %	40-150		"	"	"	"	

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2951 Niagara St  
Denver CO, 80207

Project: Colorado State Location Closure

Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
08/01/22 09:35

### Volatile Organic Compounds by EPA Method 8260B - Quality Control

#### Summit Scientific

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

#### Batch BFG0414 - EPA 5030 Soil MS

##### Blank (BFG0414-BLK1)

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

Benzene	ND	0.0020	mg/kg								
Toluene	ND	0.0050	"								
Ethylbenzene	ND	0.0050	"								
Xylenes (total)	ND	0.010	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
Naphthalene	ND	0.0038	"								
Gasoline Range Hydrocarbons	ND	0.50	"								
Surrogate: 1,2-Dichloroethane-d4	0.0377		"	0.0400		94.4	50-150				
Surrogate: Toluene-d8	0.0398		"	0.0400		99.4	50-150				
Surrogate: 4-Bromofluorobenzene	0.0394		"	0.0400		98.6	50-150				

##### LCS (BFG0414-BS1)

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

Benzene	0.0680	0.0020	mg/kg	0.0750		90.6	70-130				
Toluene	0.0741	0.0050	"	0.0750		98.8	70-130				
Ethylbenzene	0.0763	0.0050	"	0.0750		102	70-130				
m,p-Xylene	0.153	0.010	"	0.150		102	70-130				
o-Xylene	0.0734	0.0050	"	0.0750		97.8	70-130				
1,2,4-Trimethylbenzene	0.0810	0.0050	"	0.0750		108	70-130				
1,3,5-Trimethylbenzene	0.0797	0.0050	"	0.0750		106	70-130				
Naphthalene	0.0790	0.0038	"	0.0750		105	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.0339		"	0.0400		84.8	50-150				
Surrogate: Toluene-d8	0.0401		"	0.0400		100	50-150				
Surrogate: 4-Bromofluorobenzene	0.0383		"	0.0400		95.8	50-150				

##### Matrix Spike (BFG0414-MS1)

Source: 2207285-01

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

Benzene	0.0653	0.0020	mg/kg	0.0750	ND	87.0	70-130				
Toluene	0.0703	0.0050	"	0.0750	ND	93.8	70-130				
Ethylbenzene	0.0756	0.0050	"	0.0750	ND	101	70-130				
m,p-Xylene	0.151	0.010	"	0.150	0.00384	98.4	70-130				
o-Xylene	0.0738	0.0050	"	0.0750	ND	98.4	70-130				
1,2,4-Trimethylbenzene	0.0836	0.0050	"	0.0750	ND	111	70-130				
1,3,5-Trimethylbenzene	0.0802	0.0050	"	0.0750	ND	107	70-130				
Naphthalene	0.0900	0.0038	"	0.0750	ND	120	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.0324		"	0.0400		81.0	50-150				
Surrogate: Toluene-d8	0.0394		"	0.0400		98.4	50-150				
Surrogate: 4-Bromofluorobenzene	0.0380		"	0.0400		94.9	50-150				

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Project: Colorado State Location Closure

Project Number: [none]  
Project Manager: Carter Peace

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**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**Summit Scientific**

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

**Batch BFG0414 - EPA 5030 Soil MS**

Matrix Spike Dup (BFG0414-MSD1)	Source: 2207285-01			Prepared: 07/22/22 Analyzed: 07/23/22						
Benzene	0.0626	0.0020	mg/kg	0.0750	ND	83.4	70-130	4.22	30	
Toluene	0.0699	0.0050	"	0.0750	ND	93.2	70-130	0.642	30	
Ethylbenzene	0.0757	0.0050	"	0.0750	ND	101	70-130	0.119	30	
m,p-Xylene	0.152	0.010	"	0.150	0.00384	99.0	70-130	0.573	30	
o-Xylene	0.0740	0.0050	"	0.0750	ND	98.6	70-130	0.284	30	
1,2,4-Trimethylbenzene	0.0835	0.0050	"	0.0750	ND	111	70-130	0.144	30	
1,3,5-Trimethylbenzene	0.0815	0.0050	"	0.0750	ND	109	70-130	1.59	30	
Naphthalene	0.0916	0.0038	"	0.0750	ND	122	70-130	1.69	30	
Surrogate: 1,2-Dichloroethane-d4	0.0336		"	0.0400		84.0	50-150			
Surrogate: Toluene-d8	0.0398		"	0.0400		99.5	50-150			
Surrogate: 4-Bromofluorobenzene	0.0385		"	0.0400		96.3	50-150			

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Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
08/01/22 09:35

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

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

**Batch BFG0416 - EPA 3550A**

**Blank (BFG0416-BLK1)**

Prepared & Analyzed: 07/22/22

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							

**LCS (BFG0416-BS1)**

Prepared & Analyzed: 07/22/22

C10-C28 (DRO)	589	50	mg/kg	500	118	70-130				
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**Matrix Spike (BFG0416-MS1)**

Source: 2207285-01

Prepared & Analyzed: 07/22/22

C10-C28 (DRO)	504	50	mg/kg	500	32.4	94.2	70-130			
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**Matrix Spike Dup (BFG0416-MSD1)**

Source: 2207285-01

Prepared & Analyzed: 07/22/22

C10-C28 (DRO)	474	50	mg/kg	500	32.4	88.2	70-130	6.13	20	
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Project: Colorado State Location Closure

Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
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**PAH by EPA Method 8270D SIM - Quality Control**

**Summit Scientific**

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

**Batch BFG0412 - EPA 5030 Soil MS**

**Blank (BFG0412-BLK1)**

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

Acenaphthene	ND	0.00500	mg/kg								
Anthracene	ND	0.00500	"								
Benzo (a) anthracene	ND	0.00500	"								
Benzo (a) pyrene	ND	0.00500	"								
Benzo (b) fluoranthene	ND	0.00500	"								
Benzo (k) fluoranthene	ND	0.00500	"								
Chrysene	ND	0.00500	"								
Dibenz (a,h) anthracene	ND	0.00500	"								
Fluoranthene	ND	0.00500	"								
Fluorene	ND	0.00500	"								
Indeno (1,2,3-cd) pyrene	ND	0.00500	"								
Pyrene	ND	0.00500	"								
1-Methylnaphthalene	ND	0.00500	"								
2-Methylnaphthalene	ND	0.00500	"								
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0380</i>		"	<i>0.0333</i>		<i>114</i>		<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0296</i>		"	<i>0.0333</i>		<i>88.9</i>		<i>40-150</i>			

**LCS (BFG0412-BS1)**

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

Acenaphthene	0.0269	0.00500	mg/kg	0.0333	80.6	31-137
Anthracene	0.0355	0.00500	"	0.0333	107	30-120
Benzo (a) anthracene	0.0356	0.00500	"	0.0333	107	30-120
Benzo (a) pyrene	0.0356	0.00500	"	0.0333	107	30-120
Benzo (b) fluoranthene	0.0369	0.00500	"	0.0333	111	30-120
Benzo (k) fluoranthene	0.0343	0.00500	"	0.0333	103	30-120
Chrysene	0.0385	0.00500	"	0.0333	116	30-120
Dibenz (a,h) anthracene	0.0309	0.00500	"	0.0333	92.7	30-120
Fluoranthene	0.0313	0.00500	"	0.0333	93.8	30-120
Fluorene	0.0252	0.00500	"	0.0333	75.7	30-120
Indeno (1,2,3-cd) pyrene	0.0267	0.00500	"	0.0333	80.1	30-120
Pyrene	0.0381	0.00500	"	0.0333	114	35-142
1-Methylnaphthalene	0.0342	0.00500	"	0.0333	103	35-142
2-Methylnaphthalene	0.0255	0.00500	"	0.0333	76.6	35-142
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0301</i>		"	<i>0.0333</i>	<i>90.2</i>	<i>40-150</i>
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0358</i>		"	<i>0.0333</i>	<i>107</i>	<i>40-150</i>

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Project Manager: Carter Peace

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08/01/22 09:35

**PAH by EPA Method 8270D SIM - Quality Control**

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

**Batch BFG0412 - EPA 5030 Soil MS**

**Matrix Spike (BFG0412-MS1)**

Source: 2207292-01

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

Acenaphthene	0.0190	0.00500	mg/kg	0.0333	ND	57.1	31-137			
Anthracene	0.0328	0.00500	"	0.0333	ND	98.5	30-120			
Benzo (a) anthracene	0.0239	0.00500	"	0.0333	ND	71.6	30-120			
Benzo (a) pyrene	0.0247	0.00500	"	0.0333	ND	74.2	30-120			
Benzo (b) fluoranthene	0.0275	0.00500	"	0.0333	ND	82.4	30-120			
Benzo (k) fluoranthene	0.0322	0.00500	"	0.0333	ND	96.6	30-120			
Chrysene	0.0283	0.00500	"	0.0333	ND	84.8	30-120			
Dibenz (a,h) anthracene	0.0179	0.00500	"	0.0333	ND	53.6	30-120			
Fluoranthene	0.0349	0.00500	"	0.0333	ND	105	30-120			
Fluorene	0.0181	0.00500	"	0.0333	ND	54.2	30-120			
Indeno (1,2,3-cd) pyrene	0.0158	0.00500	"	0.0333	ND	47.5	30-120			
Pyrene	0.0365	0.00500	"	0.0333	ND	109	35-142			
1-Methylnaphthalene	0.0236	0.00500	"	0.0333	ND	70.7	15-130			
2-Methylnaphthalene	0.0179	0.00500	"	0.0333	ND	53.7	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0209		"	0.0333		62.6	40-150			
Surrogate: Fluoranthene-d10	0.0270		"	0.0333		81.1	40-150			

**Matrix Spike Dup (BFG0412-MSD1)**

Source: 2207292-01

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

Acenaphthene	0.0213	0.00500	mg/kg	0.0333	ND	63.8	31-137	11.1	30
Anthracene	0.0373	0.00500	"	0.0333	ND	112	30-120	12.8	30
Benzo (a) anthracene	0.0264	0.00500	"	0.0333	ND	79.2	30-120	10.1	30
Benzo (a) pyrene	0.0276	0.00500	"	0.0333	ND	82.7	30-120	10.8	30
Benzo (b) fluoranthene	0.0305	0.00500	"	0.0333	ND	91.6	30-120	10.6	30
Benzo (k) fluoranthene	0.0356	0.00500	"	0.0333	ND	107	30-120	10.1	30
Chrysene	0.0309	0.00500	"	0.0333	ND	92.7	30-120	8.96	30
Dibenz (a,h) anthracene	0.0200	0.00500	"	0.0333	ND	59.9	30-120	11.0	30
Fluoranthene	0.0373	0.00500	"	0.0333	ND	112	30-120	6.59	30
Fluorene	0.0187	0.00500	"	0.0333	ND	56.0	30-120	3.22	30
Indeno (1,2,3-cd) pyrene	0.0191	0.00500	"	0.0333	ND	57.2	30-120	18.7	30
Pyrene	0.0395	0.00500	"	0.0333	ND	119	35-142	7.90	30
1-Methylnaphthalene	0.0270	0.00500	"	0.0333	ND	80.9	15-130	13.5	50
2-Methylnaphthalene	0.0249	0.00500	"	0.0333	ND	74.8	15-130	32.8	50
Surrogate: 2-Methylnaphthalene-d10	0.0243		"	0.0333		73.0	40-150		
Surrogate: Fluoranthene-d10	0.0286		"	0.0333		85.9	40-150		

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GIS Peace  
2951 Niagara St  
Denver CO, 80207

Project: Colorado State Location Closure

Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
08/01/22 09:35

### Notes and Definitions

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

# American Agricultural Laboratory, Inc.

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*"Analysis You Can Grow With"®*



DC DOZER SERVICE  
1403 FILLMORE ST  
STERLING CO 80751

ACCOUNT NO: 20423  
DATE RECEIVED: 12/8/2021  
DATE REPORTED: 12/10/2021

## SATURATED PASTE EXTRACT ANALYSIS

Lab No.	Grower	Sample ID	Depth inches	pH s.u.	EC mhos/cm
3373139	TODD TROUTMAN	BACKGROUND NORTH	0-8	7.85	0.65
3373140	TODD TROUTMAN	BACKGROUND SOUTH	0-8	7.80	0.97
3373141	TODD TROUTMAN	WPSB	0-8	8.72	1.80
3373142	TODD TROUTMAN	WPSS	0-8	8.73	1.27
3373143	TODD TROUTMAN	CENTER BERM (CB)	0-8	8.81	2.97
3373144	TODD TROUTMAN	CENTER SURFACE (CS)	0-8	7.36	4.19
3373145	TODD TROUTMAN	WPWB	0-8	7.96	3.15
3373146	TODD TROUTMAN	WPWS	0-8	9.33	3.20
3373147	TODD TROUTMAN	WPNB	0-8	7.74	2.64
3373148	TODD TROUTMAN	WPNS	0-8	7.72	2.67
3373149	TODD TROUTMAN	EPSB	0-8	8.76	1.48
3373150	TODD TROUTMAN	EPSS	0-8	8.54	1.61
3373151	TODD TROUTMAN	EPEB	0-8	9.16	2.07
3373152	TODD TROUTMAN	EPES	0-8	8.34	1.15
3373153	TODD TROUTMAN	EPNB	0-8	8.62	2.14
3373154	TODD TROUTMAN	EPNS	0-8	9.07	1.83

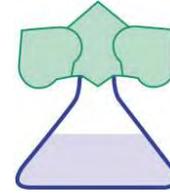
Approved By:

# American Agricultural Laboratory, Inc.

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Office: 308-345-3670 / FAX: 308-345-7880

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20423

DC DOZER SERVICE

1403 FILLMORE ST

STERLING CO 80751

NAME : TODD TROUTMAN

DATE RECEIVED: 12/08/2021

DATE REPORTED: 12/13/2021

## SOIL TEST RESULTS

LAB NUMBER	FIELD IDENTIFICATION	SAMPLE IDENTIFICATION	Depth Inches	pH		EL	SOLUBLE SALTS mod. SP mmhos/cm	OM LOI %	NITRATE-N (FIA)		PHOSPHORUS						
				1 : 1 Soil	Buffer Woodruff				ppm	lbs/A	P1 ppm	Bicarb ppm	P2 ppm	M2 ppm	M3 ppm		
3373139	BACKGROUND NORTH		0-8														
3373140	BACKGROUND SOUTH		0-8														
3373141	WPSB		0-8														
3373142	WPSS		0-8														
3373143	CENTER BERM CB		0-8														
3373144	CENTER SURFACE CS		0-8														

LAB NUMBER	SULFATE-S Ca-P ppm	NH4OAc (Exchangeable)				DTPA				BORON Sorbitol ppm	EST. CATION EXCHANGE CAPACITY (CEC) me/100g	% SATURATION						
		K ppm	Ca ppm	Mg ppm	Na ppm	Zn ppm	Fe ppm	Mn ppm	Cu ppm			BASE	H	Ca	Mg	K	Na	
3373139										0.6								
3373140										0.7								
3373141										2.1								
3373142										3.0								
3373143										2.3								
3373144										0.4								

LAB NUMBER	SOLUBLE (SAT. EXT.)			SODIUM ADSORPTION RATIO (SAR)	EXCH. SODIUM PERCENT (ESP)	GYPSUM REQ T/A	PARTICLE SIZE ANALYSIS				CHLORIDE		EXCH. NH4-N		ALUMINUM ppm	TOTAL N %
	Ca me/L	Mg me/L	Na me/L				SAND %	SILT %	CLAY %	SOIL TEXTURE		ppm	lbs/A	ppm		
3373139	2.71	0.68	0.48	0.37	1	0										
3373140	6.69	1.65	0.38	0.19	1	0										
3373141	0.51	0.26	25.14	40.52	59											
3373142	0.59	0.25	12.16	18.76	27											
3373143	0.81	0.36	43.87	57.36	84											
3373144	54.06	19.87	7.17	1.18	1	0										

## SUGGESTED FERTILIZER RECOMMENDATIONS

LAB NUMBER	FIELD IDENTIFICATION	SAMPLE IDENTIFICATION	CROP TO BE GROWN	YIELD GOAL	N	P2O5	K2O	S	Zn	MgO	Fe	Mn	Cu	B	Cl	LIME REC 60% ECCE T/A
3373139	BACKGROUND NORTH															
3373140	BACKGROUND SOUTH															
3373141	WPSB															
3373142	WPSS															
3373143	CENTER BERM CB															
3373144	CENTER SURFACE CS															

Approved By: Bob Olsen

Analysis By: American Agricultural Lab

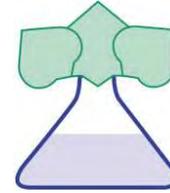
Recommendations By: American Agricultural Lab

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20423

DC DOZER SERVICE

1403 FILLMORE ST

STERLING CO 80751

NAME : TODD TROUTMAN

DATE RECEIVED: 12/08/2021

DATE REPORTED: 12/13/2021

## SOIL TEST RESULTS

LAB NUMBER	FIELD IDENTIFICATION	SAMPLE IDENTIFICATION	Depth Inches	pH		EL	SOLUBLE SALTS mod. SP mmhos/cm	OM LOI %	NITRATE-N (FIA)		PHOSPHORUS						
				1 : 1 Soil	Buffer Woodruff				ppm	lbs/A	P1 ppm	Bicarb ppm	P2 ppm	M2 ppm	M3 ppm		
3373145	WPWB		0-8														
3373146	WPWS		0-8														
3373147	WPNB		0-8														
3373148	WPNS		0-8														
3373149	EPSB		0-8														
3373150	EPSS		0-8														

LAB NUMBER	SULFATE-S Ca-P ppm	NH4OAc (Exchangeable)				DTPA				BORON Sorbitol ppm	EST. CATION EXCHANGE CAPACITY (CEC) me/100g	% SATURATION						
		K ppm	Ca ppm	Mg ppm	Na ppm	Zn ppm	Fe ppm	Mn ppm	Cu ppm			BASE	H	Ca	Mg	K	Na	
3373145										2.4								
3373146										5.2								
3373147										1.1								
3373148										0.8								
3373149										2.4								
3373150										2.6								

LAB NUMBER	SOLUBLE (SAT. EXT.)			SODIUM ADSORPTION RATIO (SAR)	EXCH. SODIUM PERCENT (ESP)	GYPSUM REQ T/A	PARTICLE SIZE ANALYSIS				CHLORIDE		EXCH. NH4-N		ALUMINUM ppm	TOTAL N %
	Ca me/L	Mg me/L	Na me/L				SAND %	SILT %	CLAY %	SOIL TEXTURE		ppm	lbs/A	ppm		
3373145	7.56	4.85	44.75	17.96	25											
3373146	0.61	0.30	41.21	61.09	90											
3373147	10.34	3.71	35.70	13.47	19											
3373148	17.88	8.91	18.15	4.96	6	0										
3373149	1.18	0.49	19.77	21.64	31											
3373150	2.21	0.95	22.13	17.61	25											

## SUGGESTED FERTILIZER RECOMMENDATIONS

LAB NUMBER	FIELD IDENTIFICATION	SAMPLE IDENTIFICATION	CROP TO BE GROWN	YIELD GOAL	N	P2O5	K2O	S	Zn	MgO	Fe	Mn	Cu	B	Cl	LIME REC 60% ECCE T/A
3373145	WPWB															
3373146	WPWS															
3373147	WPNB															
3373148	WPNS															
3373149	EPSB															
3373150	EPSS															

Approved By: Bob Olsen

Analysis By: American Agricultural Lab

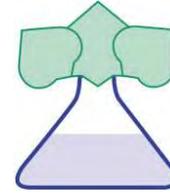
Recommendations By: American Agricultural Lab

# American Agricultural Laboratory, Inc.

700 West D Street / PO Box 370 / McCook, Nebraska 69001

Office: 308-345-3670 / FAX: 308-345-7880

www.AmAgLab.com



20423

DC DOZER SERVICE

1403 FILLMORE ST

STERLING CO 80751

NAME : TODD TROUTMAN

DATE RECEIVED: 12/08/2021

DATE REPORTED: 12/13/2021

## SOIL TEST RESULTS

LAB NUMBER	FIELD IDENTIFICATION	SAMPLE IDENTIFICATION	Depth Inches	pH		EL	SOLUBLE SALTS mod. SP mmhos/cm	OM LOI %	NITRATE-N (FIA)		PHOSPHORUS						
				1 : 1 Soil	Buffer Woodruff				ppm	lbs/A	P1 ppm	Bicarb ppm	P2 ppm	M2 ppm	M3 ppm		
3373151	EPEB		0-8														
3373152	EPES		0-8														
3373153	EPNB		0-8														
3373154	EPNS		0-8														

LAB NUMBER	SULFATE-S Ca-P ppm	NH4OAc (Exchangeable)				DTPA				BORON Sorbitol ppm	EST. CATION EXCHANGE CAPACITY (CEC) me/100g	% SATURATION						
		K ppm	Ca ppm	Mg ppm	Na ppm	Zn ppm	Fe ppm	Mn ppm	Cu ppm			BASE	H	Ca	Mg	K	Na	
3373151										2.5								
3373152										2.5								
3373153										2.4								
3373154										1.8								

LAB NUMBER	SOLUBLE (SAT. EXT.)			SODIUM ADSORPTION RATIO (SAR)	EXCH. SODIUM PERCENT (ESP)	GYPSUM REQ T/A	PARTICLE SIZE ANALYSIS				CHLORIDE		EXCH. NH4-N		ALUMINUM ppm	TOTAL N %
	Ca me/L	Mg me/L	Na me/L				SAND %	SILT %	CLAY %	SOIL TEXTURE	ppm	lbs/A	ppm	lbs/A		
3373151	0.42	0.20	21.89	39.32	57											
3373152	0.64	0.27	8.77	13.00	18											
3373153	0.74	0.30	26.65	36.96	54											
3373154	0.70	0.35	20.21	27.89	40											

## SUGGESTED FERTILIZER RECOMMENDATIONS

LAB NUMBER	FIELD IDENTIFICATION	SAMPLE IDENTIFICATION	CROP TO BE GROWN	YIELD GOAL	N	P2O5	K2O	S	Zn	MgO	Fe	Mn	Cu	B	Cl	LIME REC 60% ECCE T/A
3373151	EPEB															
3373152	EPES															
3373153	EPNB															
3373154	EPNS															

Approved By: Bob Olsen

Analysis By: American Agricultural Lab

Recommendations By: American Agricultural Lab

# 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 blue 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



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

Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

# Summit Scientific

S<sub>2</sub>

2308027-1

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310

Page 1 of 2

Client: GIS 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 <sub>3</sub>	None	Other	Water	Soil	Air-Canister #	Other						
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 16:00</u>		Received by: <u>[Signature]</u>		Date/Time: <u>8/1/23 14:00</u>		Turn Around Time (Check)				Notes:						
Relinquished by:		Date/Time:		Received by:		Date/Time:		Same Day <input type="checkbox"/> 72 hours				<u>915 SS =</u> <u>EC, SAR</u> <u>pH SATURATED PASTE</u> <u>BORON HOT WATER</u>						
								24 hours <input type="checkbox"/> Standard										
Temperature Upon Receipt: <u>28.4</u>		Corrected Temperature _____				HNO <sub>3</sub> lot # _____				Sample Integrity:								
IR gun correction: _____		IR gun #: <u>2</u>								Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No								

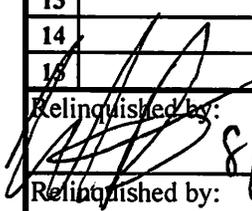
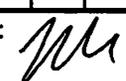
# SUMMIT SCIENTIFIC

4653 Table Mountain Drive  
Golden, CO 80403  
303-277-9310

Lab ID  
**2308027-2**

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

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

Relinquished by: 	Date/Time: <b>8/1/23 1400</b>	Received by: 	Date/Time: <b>8/1/23 14:09</b>	TAT Business Days	Field DO	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Temperature Upon Receipt: <b>28.4</b>	Corrected Temperature	IR gun #: <b>2</b>	HNO3 lot #:	Standard	<input checked="" type="checkbox"/> Field Turb.	

S<sub>2</sub>

2/a  
Sample Receipt Checklist

S2 Work Order# 2308027

Client: GIS Pearce Client Project ID: CO State

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other  Airbill #: \_\_\_\_\_

Matrix (Check all that apply) Air  Soil/Solid  Water  Other

Temp (°C)  Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> 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? <sup>(1)</sup>	<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 <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , 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? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> 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"/>	
<u>Additional Comments (if any):</u>				

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.

*M*

Custodian Printed Name

8/1/23

Date/Time

14:09



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**

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

**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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>pH</b>	<b>7.59</b>		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

**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
<b>Boron</b>	<b>0.0958</b>	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
<b>Calcium</b>	<b>937</b>	0.0630	mg/L dry	1	BGH0083	08/02/23	08/07/23	EPA 6020B	
<b>Magnesium</b>	<b>148</b>	0.0630	"	"	"	"	"	"	
<b>Sodium</b>	<b>205</b>	0.0630	"	"	"	"	"	"	

**Calculated Analysis**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sodium Adsorption Ratio</b>	<b>1.64</b>	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
<b>% Solids</b>	<b>79.3</b>		%	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
<b>Specific Conductance (EC)</b>	<b>0.575</b>	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

**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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>pH</b>	<b>8.09</b>		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

**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
<b>Boron</b>	<b>0.0122</b>	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
<b>Calcium</b>	<b>93.7</b>	0.0587	mg/L dry	1	BGH0083	08/02/23	08/07/23	EPA 6020B	
<b>Magnesium</b>	<b>8.98</b>	0.0587	"	"	"	"	"	"	
<b>Sodium</b>	<b>18.5</b>	0.0587	"	"	"	"	"	"	

**Calculated Analysis**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sodium Adsorption Ratio</b>	<b>0.489</b>	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
<b>% Solids</b>	<b>85.1</b>		%	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
<b>Specific Conductance (EC)</b>	<b>0.325</b>	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

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>pH</b>	<b>7.70</b>		pH Units	1	BGH0157	08/03/23	08/03/23	EPA 9045D	

Summit Scientific



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



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 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	<b>81.0</b>	0.0595	mg/L dry	1	BGH0083	08/02/23	08/07/23	EPA 6020B	
Magnesium	<b>10.4</b>	0.0595	"	"	"	"	"	"	
Sodium	<b>8.67</b>	0.0595	"	"	"	"	"	"	

**Calculated Analysis**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	<b>0.241</b>	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	<b>84.1</b>		%	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)	<b>0.257</b>	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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Project: CO State 1 and 2

Project Number: [none]  
 Project Manager: Carter Peace

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 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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>pH</b>	<b>7.77</b>		pH Units	1	BGH0157	08/03/23	08/03/23	EPA 9045D	

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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

**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 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	<b>54.3</b>	0.0601	mg/L dry	1	BGH0083	08/02/23	08/07/23	EPA 6020B	
Magnesium	<b>11.6</b>	0.0601	"	"	"	"	"	"	
Sodium	<b>8.48</b>	0.0601	"	"	"	"	"	"	

**Calculated Analysis**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	<b>0.273</b>	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	<b>83.2</b>		%	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)	<b>0.320</b>	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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Project: CO State 1 and 2

Project Number: [none]  
 Project Manager: Carter Peace

**Reported:**  
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**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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>pH</b>	<b>7.32</b>		pH Units	1	BGH0157	08/03/23	08/03/23	EPA 9045D	

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**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 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	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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% 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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**

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Project: CO State 1 and 2

Project Number: [none]  
 Project Manager: Carter Peace

**Reported:**  
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**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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>pH</b>	<b>7.55</b>		pH Units	1	BGH0157	08/03/23	08/03/23	EPA 9045D	

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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
<b>Boron</b>	<b>0.0572</b>	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
<b>Calcium</b>	<b>223</b>	0.0565	mg/L dry	1	BGH0083	08/02/23	08/07/23	EPA 6020B	
<b>Magnesium</b>	<b>69.4</b>	0.0565	"	"	"	"	"	"	
<b>Sodium</b>	<b>273</b>	0.0565	"	"	"	"	"	"	

**Calculated Analysis**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sodium Adsorption Ratio</b>	<b>4.09</b>	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
<b>% Solids</b>	<b>88.4</b>		%	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
<b>Specific Conductance (EC)</b>	<b>0.680</b>	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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Project: CO State 1 and 2

Project Number: [none]  
 Project Manager: Carter Peace

**Reported:**  
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**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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>pH</b>	<b>8.24</b>		pH Units	1	BGH0157	08/03/23	08/03/23	EPA 9045D	

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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
<b>Boron</b>	<b>0.0608</b>	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
<b>Calcium</b>	<b>159</b>	0.0561	mg/L dry	1	BGH0083	08/02/23	08/07/23	EPA 6020B	
<b>Magnesium</b>	<b>29.2</b>	0.0561	"	"	"	"	"	"	
<b>Sodium</b>	<b>395</b>	0.0561	"	"	"	"	"	"	

**Calculated Analysis**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sodium Adsorption Ratio</b>	<b>7.56</b>	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
<b>% Solids</b>	<b>89.2</b>		%	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
<b>Specific Conductance (EC)</b>	<b>1.51</b>	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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Project Number: [none]  
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**Reported:**  
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**SPILL 2**  
**2308027-08 (Soil)**

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**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								
<b>pH</b>	<b>8.02</b>			pH Units	1	BGH0157	08/03/23	08/03/23	EPA 9045D	

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Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
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**SPILL 3**  
**2308027-09 (Soil)**

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**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
<b>Boron</b>	<b>0.101</b>	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
<b>Calcium</b>	<b>178</b>	0.0645	mg/L dry	1	BGH0083	08/02/23	08/07/23	EPA 6020B	
<b>Magnesium</b>	<b>40.7</b>	0.0645	"	"	"	"	"	"	
<b>Sodium</b>	<b>187</b>	0.0645	"	"	"	"	"	"	

**Calculated Analysis**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sodium Adsorption Ratio</b>	<b>3.29</b>	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
<b>% Solids</b>	<b>77.6</b>		%	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
<b>Specific Conductance (EC)</b>	<b>0.576</b>	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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Project: CO State 1 and 2

Project Number: [none]  
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**Reported:**  
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**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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>pH</b>	<b>7.76</b>		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

**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
<b>Boron</b>	<b>0.0543</b>	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
<b>Calcium</b>	<b>246</b>	0.0642	mg/L dry	1	BGH0083	08/02/23	08/07/23	EPA 6020B	
<b>Magnesium</b>	<b>61.4</b>	0.0642	"	"	"	"	"	"	
<b>Sodium</b>	<b>182</b>	0.0642	"	"	"	"	"	"	

**Calculated Analysis**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sodium Adsorption Ratio</b>	<b>2.69</b>	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
<b>% Solids</b>	<b>77.9</b>		%	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
<b>Specific Conductance (EC)</b>	<b>0.558</b>	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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Project Number: [none]  
 Project Manager: Carter Peace

**Reported:**  
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**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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>pH</b>	<b>7.52</b>		pH Units	1	BGH0157	08/03/23	08/03/23	EPA 9045D	

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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

**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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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	<b>0.800</b>	0.200	mg/kg dry	1	BGH0100	08/02/23	08/03/23	EPA 6020B	
Barium	<b>104</b>	0.400	"	"	"	"	"	"	"
Cadmium	<b>0.256</b>	0.200	"	"	"	"	"	"	"
Copper	<b>1.97</b>	0.400	"	"	"	"	"	"	"
Lead	<b>7.10</b>	0.200	"	"	"	"	"	"	"
Nickel	<b>2.48</b>	0.400	"	"	"	"	"	"	"
Selenium	ND	0.288	"	"	"	"	"	"	"
Silver	<b>0.0563</b>	0.0200	"	"	"	"	"	"	"
Zinc	<b>7.07</b>	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	<b>90.3</b>		%	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	<b>1.30</b>	0.200	mg/kg dry	1	BGH0100	08/02/23	08/03/23	EPA 6020B	
Barium	<b>133</b>	0.400	"	"	"	"	"	"	
Cadmium	<b>0.251</b>	0.200	"	"	"	"	"	"	
Copper	<b>2.28</b>	0.400	"	"	"	"	"	"	
Lead	<b>6.18</b>	0.200	"	"	"	"	"	"	
Nickel	<b>2.56</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.293	"	"	"	"	"	"	
Silver	<b>0.0496</b>	0.0200	"	"	"	"	"	"	
Zinc	<b>6.93</b>	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	<b>88.8</b>		%	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	<b>0.746</b>	0.200	mg/kg dry	1	BGH0100	08/02/23	08/03/23	EPA 6020B	
Barium	<b>77.3</b>	0.400	"	"	"	"	"	"	
Cadmium	<b>0.253</b>	0.200	"	"	"	"	"	"	
Copper	<b>1.66</b>	0.400	"	"	"	"	"	"	
Lead	<b>6.77</b>	0.200	"	"	"	"	"	"	
Nickel	<b>1.94</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.279	"	"	"	"	"	"	
Silver	<b>0.0300</b>	0.0200	"	"	"	"	"	"	
Zinc	<b>7.25</b>	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	<b>93.2</b>		%	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	<b>0.457</b>	0.200	mg/kg dry	1	BGH0100	08/02/23	08/03/23	EPA 6020B	
Barium	<b>387</b>	0.400	"	"	"	"	"	"	
Cadmium	<b>0.208</b>	0.200	"	"	"	"	"	"	
Copper	<b>1.88</b>	0.400	"	"	"	"	"	"	
Lead	<b>5.56</b>	0.200	"	"	"	"	"	"	
Nickel	<b>2.27</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.316	"	"	"	"	"	"	
Silver	<b>0.0321</b>	0.0200	"	"	"	"	"	"	
Zinc	<b>8.19</b>	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	<b>82.3</b>		%	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	Result	Reporting		Spike Level	Source Result	%REC		RPD		Notes
		Limit	Units			Limit	RPD	Limit	RPD	

**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

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 - Quality Control**  
**Summit Scientific**

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

**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	

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 - Quality Control**  
**Summit Scientific**

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

**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

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

**Hexavalent Chromium by EPA Method 7196 - Quality Control**  
**Summit Scientific**

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

**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

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

**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 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	Source	%REC			RPD	Notes
		Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

**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	
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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

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

**Summit Scientific**

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

**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	Source	%REC		RPD		Notes
		Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

**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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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

### 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

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

August 23, 2023

Carter Peace

GIS Peace

2951 Niagara St

Denver, CO 80207

RE: CO State 1 and 2

Work Order #2308375

Enclosed are the results of analyses for samples received by Summit Scientific on 08/16/23 12:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue 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



GIS Peace  
2951 Niagara St  
Denver CO, 80207

Project: CO State 1 and 2

Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
08/23/23 14:01

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S2N	2308375-01	Soil	08/16/23 16:00	08/16/23 12:30
S2S	2308375-02	Soil	08/16/23 16:00	08/16/23 12:30
S2E	2308375-03	Soil	08/16/23 16:00	08/16/23 12:30
S2W	2308375-04	Soil	08/16/23 16:00	08/16/23 12:30

Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

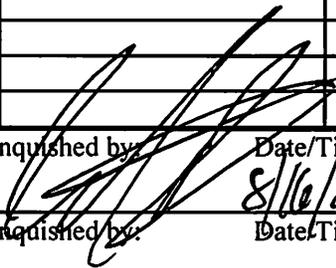
# SUMMIT SCIENTIFIC

4653 Table Mountain Drive  
Golden, CO 80403  
303-277-9310

Lab ID	Page 1 of 1
2308375	

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

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested	Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #		
1	S2N	8/16/23	1000				X			X			
2	S2S												
3	S2E												
4	S2W												
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													

Relinquished by: 	Date/Time: 8/16/23 12:30	Received by: <b>Jah W. J.</b>	Date/Time: 8/16/23 12:30	TAT Business Days	Field DO	Notes: <b>PH. SAT PASTE</b> <b>BROWN HOT WATER</b>
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Temperature Upon Receipt: <b>28.9</b>	Corrected Temperature	IR gun #: <b>2</b>	HNO3 lot #:	Standard	<input checked="" type="checkbox"/> Field Turb.	

S<sub>2</sub>

Sample Receipt Checklist

S2 Work Order# 2308375

Client: GIS People Client Project ID: Co State 1 AND 2

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other [ ] Airbill #: [ ]

[X] [ ] [ ] [ ] [ ]

Matrix (Check all that apply) Air [ ] Soil/Solid [X] Water [ ] Other [ ]

Temp (°C) 28.9 Thermometer # 2

Table with 5 columns: Yes, No, N/A, Comments (if any). Rows include: If samples require cooling, is the temperature < 6°C? (1), If custody seals are present, are they intact? (1), Are samples due within 48 hours present?, Are water samples with short hold times present?, Is a chain-of-custody (COC) form present and filled out Completely? (1), Is the COC properly relinquished by the client w/ date and time recorded? (1), Were all samples received intact? (1), Was adequate sample volume provided? (1), Does the COC agree with the number and type of sample bottles received? (1), Do the sample IDs on the bottle labels match the COC?(1), For volatiles in water - is there headspace present? If yes, contact client and note in narrative., Are samples preserved that require preservation (excluding cooling)? (1) Note the type of preservative in the comments column - HCl, H2SO4, NaOH, HNO3, etc., If samples are acid preserved for metals, is the pH <= 2? (1) Record the pH in Comments., If dissolved metals are requested, were samples field filtered?, Additional Comments (if any):, (1) If NO, then contact the client before proceeding with analysis and note in case narrative.

[Signature] Custodian Printed Name

8/16/23 Date/Time



GIS Peace  
2951 Niagara St  
Denver CO, 80207

Project: CO State 1 and 2

Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
08/23/23 14:01

**S2N**  
**2308375-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **08/16/23 16:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>1.03</b>	0.0100	mg/L	1	BGH0797	08/21/23	08/22/23	EPA 6020B	

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

Date Sampled: **08/16/23 16:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Calcium</b>	<b>67.6</b>	0.0686	mg/L dry	1	BGH0771	08/18/23	08/23/23	EPA 6020B	
<b>Magnesium</b>	<b>12.0</b>	0.0686	"	"	"	"	"	"	
<b>Sodium</b>	<b>75.7</b>	0.0686	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **08/16/23 16:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sodium Adsorption Ratio</b>	<b>2.23</b>	0.00100	units	1	BGH0915	08/23/23	08/23/23	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **08/16/23 16:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>% Solids</b>	<b>72.9</b>		%	1	BGH0785	08/19/23	08/19/23	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **08/16/23 16:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Specific Conductance (EC)</b>	<b>0.357</b>	0.0100	mmhos/cm	1	BGH0813	08/21/23	08/21/23	EPA 120.1	

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

Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

S<sub>2</sub>

GIS Peace  
2951 Niagara St  
Denver CO, 80207

Project: CO State 1 and 2

Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
08/23/23 14:01

**S2N**  
**2308375-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/16/23 16:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>pH</b>	<b>7.40</b>		pH Units	1	BGH0812	08/21/23	08/21/23	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:**  
08/23/23 14:01

**S2S**  
**2308375-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **08/16/23 16:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.993</b>	0.0100	mg/L	1	BGH0797	08/21/23	08/22/23	EPA 6020B	

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

Date Sampled: **08/16/23 16:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Calcium</b>	<b>74.1</b>	0.0690	mg/L dry	1	BGH0771	08/18/23	08/23/23	EPA 6020B	
<b>Magnesium</b>	<b>13.8</b>	0.0690	"	"	"	"	"	"	
<b>Sodium</b>	<b>21.5</b>	0.0690	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **08/16/23 16:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sodium Adsorption Ratio</b>	<b>0.602</b>	0.00100	units	1	BGH0915	08/23/23	08/23/23	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **08/16/23 16:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>% Solids</b>	<b>72.5</b>		%	1	BGH0785	08/19/23	08/19/23	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **08/16/23 16:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Specific Conductance (EC)</b>	<b>0.234</b>	0.0100	mmhos/cm	1	BGH0813	08/21/23	08/21/23	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:**  
 08/23/23 14:01

**S2S**

**2308375-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/16/23 16:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>pH</b>	<b>6.85</b>		pH Units	1	BGH0812	08/21/23	08/21/23	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:**  
08/23/23 14:01

**S2E**  
**2308375-03 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **08/16/23 16:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.621</b>	0.0100	mg/L	1	BGH0797	08/21/23	08/22/23	EPA 6020B	

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

Date Sampled: **08/16/23 16:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Calcium</b>	<b>86.2</b>	0.0708	mg/L dry	1	BGH0771	08/18/23	08/23/23	EPA 6020B	
<b>Magnesium</b>	<b>15.9</b>	0.0708	"	"	"	"	"	"	
<b>Sodium</b>	<b>14.5</b>	0.0708	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **08/16/23 16:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sodium Adsorption Ratio</b>	<b>0.377</b>	0.00100	units	1	BGH0915	08/23/23	08/23/23	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **08/16/23 16:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>% Solids</b>	<b>70.6</b>		%	1	BGH0785	08/19/23	08/19/23	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **08/16/23 16:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Specific Conductance (EC)</b>	<b>0.200</b>	0.0100	mmhos/cm	1	BGH0813	08/21/23	08/21/23	EPA 120.1	

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

Summit Scientific

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S<sub>2</sub>

GIS Peace  
2951 Niagara St  
Denver CO, 80207

Project: CO State 1 and 2

Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
08/23/23 14:01

**S2E**  
**2308375-03 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/16/23 16:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>pH</b>	<b>6.66</b>		pH Units	1	BGH0812	08/21/23	08/21/23	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:**  
08/23/23 14:01

**S2W**  
**2308375-04 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **08/16/23 16:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>1.86</b>	0.0100	mg/L	1	BGH0797	08/21/23	08/22/23	EPA 6020B	

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

Date Sampled: **08/16/23 16:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Calcium</b>	<b>137</b>	0.0635	mg/L dry	1	BGH0771	08/18/23	08/23/23	EPA 6020B	
<b>Magnesium</b>	<b>22.5</b>	0.0635	"	"	"	"	"	"	
<b>Sodium</b>	<b>92.6</b>	0.0635	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **08/16/23 16:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sodium Adsorption Ratio</b>	<b>1.93</b>	0.00100	units	1	BGH0915	08/23/23	08/23/23	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **08/16/23 16:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>% Solids</b>	<b>78.7</b>		%	1	BGH0785	08/19/23	08/19/23	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **08/16/23 16:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Specific Conductance (EC)</b>	<b>0.403</b>	0.0100	mmhos/cm	1	BGH0813	08/21/23	08/21/23	EPA 120.1	

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

Summit Scientific

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S<sub>2</sub>

GIS Peace  
2951 Niagara St  
Denver CO, 80207

Project: CO State 1 and 2

Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
08/23/23 14:01

**S2W**  
**2308375-04 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/16/23 16:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>pH</b>	<b>8.18</b>		pH Units	1	BGH0812	08/21/23	08/21/23	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:**  
08/23/23 14:01

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

**Summit Scientific**

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

**Batch BGH0797 - EPA 3050B**

**Blank (BGH0797-BLK1)**

Prepared: 08/21/23 Analyzed: 08/22/23

Boron ND 0.0100 mg/L

**LCS (BGH0797-BS1)**

Prepared: 08/21/23 Analyzed: 08/22/23

Boron 5.45 0.0100 mg/L 5.00 109 80-120

**Duplicate (BGH0797-DUP1)**

Source: 2308375-01

Prepared: 08/21/23 Analyzed: 08/22/23

Boron 1.04 0.0100 mg/L 1.03 0.744 20

**Matrix Spike (BGH0797-MS1)**

Source: 2308375-01

Prepared: 08/21/23 Analyzed: 08/22/23

Boron 6.80 0.0100 mg/L 5.00 1.03 115 75-125

**Matrix Spike Dup (BGH0797-MSD1)**

Source: 2308375-01

Prepared: 08/21/23 Analyzed: 08/22/23

Boron 7.09 0.0100 mg/L 5.00 1.03 121 4.13 25

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:**  
08/23/23 14:01

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

**Summit Scientific**

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

**Batch BGH0771 - General Preparation**

**Blank (BGH0771-BLK1)**

Prepared: 08/18/23 Analyzed: 08/23/23

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

**LCS (BGH0771-BS1)**

Prepared: 08/18/23 Analyzed: 08/23/23

Calcium	5.75	0.0500	mg/L wet	5.00	115	70-130
Magnesium	5.34	0.0500	"	5.00	107	70-130
Sodium	5.38	0.0500	"	5.00	108	70-130

Summit Scientific



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



GIS Peace  
 2951 Niagara St  
 Denver CO, 80207

Project: CO State 1 and 2

Project Number: [none]  
 Project Manager: Carter Peace

**Reported:**  
 08/23/23 14:01

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

**Summit Scientific**

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

**Batch BGH0785 - General Preparation**

**Duplicate (BGH0785-DUP1)**

**Source: 2308174-03**

Prepared & Analyzed: 08/19/23

% Solids	79.1		%		80.4			1.60		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:**  
08/23/23 14:01

**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 BGH0813 - General Preparation**

**Blank (BGH0813-BLK1)**

Prepared & Analyzed: 08/21/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BGH0813-BS1)**

Prepared & Analyzed: 08/21/23

Specific Conductance (EC) 0.154 0.0100 mmhos/cm 0.150 103 95-105

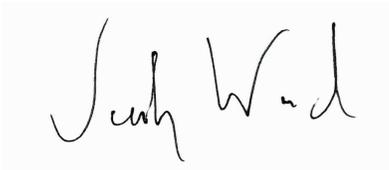
**Duplicate (BGH0813-DUP1)**

Source: 2308375-01

Prepared & Analyzed: 08/21/23

Specific Conductance (EC) 0.357 0.0100 mmhos/cm 0.357 0.00 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:**  
 08/23/23 14:01

**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 BGH0812 - General Preparation**

**LCS (BGH0812-BS1)**

Prepared & Analyzed: 08/21/23

pH                                      8.93                                      pH Units                                      9.18                                      97.3                                      95-105

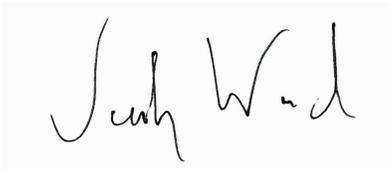
**Duplicate (BGH0812-DUP1)**

Source: 2308375-01

Prepared & Analyzed: 08/21/23

pH                                      7.40                                      pH Units                                      7.40                                      0.00                                      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:**  
08/23/23 14:01

### Notes and Definitions

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

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

August 10, 2023

Carter Peace

GIS Peace

2951 Niagara St

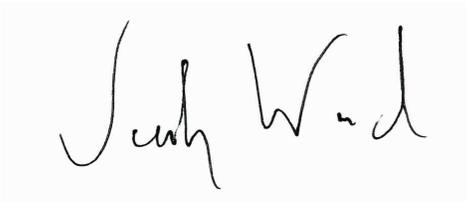
Denver, CO 80207

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 blue 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



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

Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

# Summit Scientific

S<sub>2</sub>

2308027-1

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310

Page 1 of 2

Client: GIS 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 <sub>3</sub>	None	Other	Water	Soil	Air-Canister #	Other						
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 16:00</u>		Received by: <u>[Signature]</u>		Date/Time: <u>8/1/23 14:00</u>		Turn Around Time (Check)				Notes:						
Relinquished by:		Date/Time:		Received by:		Date/Time:		Same Day <input type="checkbox"/> 72 hours <input type="checkbox"/>				<u>915 SS =</u> <u>EC, SAR</u> <u>pH SATURATED PASTE</u> <u>BORON HOT WATER</u>						
								24 hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/>										
Temperature Upon Receipt: <u>28.4</u>		Corrected Temperature _____				HNO <sub>3</sub> lot # _____				Sample Integrity:								
IR gun correction: _____		IR gun #: <u>2</u>								Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No								

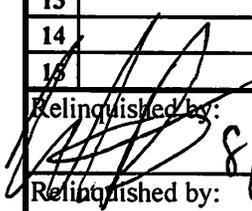
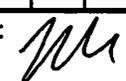
# SUMMIT SCIENTIFIC

4653 Table Mountain Drive  
Golden, CO 80403  
303-277-9310

Lab ID  
**2308027-2**

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

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

Relinquished by: 	Date/Time: <b>8/1/23 1400</b>	Received by: 	Date/Time: <b>8/1/23 14:09</b>	TAT Business Days	Field DO	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Temperature Upon Receipt: <b>28.4</b>	Corrected Temperature	IR gun #: <b>2</b>	HNO3 lot #:	Standard	<input checked="" type="checkbox"/> Field Turb.	

S<sub>2</sub>

Sample Receipt Checklist <sup>a/a</sup>

S2 Work Order# 2308027

Client: GTS Pearce Client Project ID: CO State

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other  Airbill #: \_\_\_\_\_

Matrix (Check all that apply) Air  Soil/Solid  Water  Other

Temp (°C)  Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> 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? <sup>(1)</sup>	<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 <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , 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? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> 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):				
<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.				

*M*

Custodian Printed Name

8/1/23

Date/Time

14:09



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**

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

**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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>pH</b>	<b>7.59</b>		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

**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
<b>Boron</b>	<b>0.0958</b>	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
<b>Calcium</b>	<b>937</b>	0.0630	mg/L dry	1	BGH0083	08/02/23	08/07/23	EPA 6020B	
<b>Magnesium</b>	<b>148</b>	0.0630	"	"	"	"	"	"	
<b>Sodium</b>	<b>205</b>	0.0630	"	"	"	"	"	"	

**Calculated Analysis**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sodium Adsorption Ratio</b>	<b>1.64</b>	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
<b>% Solids</b>	<b>79.3</b>		%	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
<b>Specific Conductance (EC)</b>	<b>0.575</b>	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

**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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>pH</b>	<b>8.09</b>		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

**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
<b>Boron</b>	<b>0.0122</b>	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
<b>Calcium</b>	<b>93.7</b>	0.0587	mg/L dry	1	BGH0083	08/02/23	08/07/23	EPA 6020B	
<b>Magnesium</b>	<b>8.98</b>	0.0587	"	"	"	"	"	"	
<b>Sodium</b>	<b>18.5</b>	0.0587	"	"	"	"	"	"	

**Calculated Analysis**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sodium Adsorption Ratio</b>	<b>0.489</b>	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
<b>% Solids</b>	<b>85.1</b>		%	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
<b>Specific Conductance (EC)</b>	<b>0.325</b>	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

**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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>pH</b>	<b>7.70</b>		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

**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 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	<b>81.0</b>	0.0595	mg/L dry	1	BGH0083	08/02/23	08/07/23	EPA 6020B	
Magnesium	<b>10.4</b>	0.0595	"	"	"	"	"	"	
Sodium	<b>8.67</b>	0.0595	"	"	"	"	"	"	

**Calculated Analysis**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	<b>0.241</b>	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	<b>84.1</b>		%	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)	<b>0.257</b>	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

**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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>pH</b>	<b>7.77</b>		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

**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 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	<b>54.3</b>	0.0601	mg/L dry	1	BGH0083	08/02/23	08/07/23	EPA 6020B	
Magnesium	<b>11.6</b>	0.0601	"	"	"	"	"	"	
Sodium	<b>8.48</b>	0.0601	"	"	"	"	"	"	

**Calculated Analysis**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	<b>0.273</b>	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	<b>83.2</b>		%	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)	<b>0.320</b>	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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>pH</b>	<b>7.32</b>		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 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	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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% 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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**

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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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>pH</b>	<b>7.55</b>		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

**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
<b>Boron</b>	<b>0.0572</b>	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
<b>Calcium</b>	<b>223</b>	0.0565	mg/L dry	1	BGH0083	08/02/23	08/07/23	EPA 6020B	
<b>Magnesium</b>	<b>69.4</b>	0.0565	"	"	"	"	"	"	
<b>Sodium</b>	<b>273</b>	0.0565	"	"	"	"	"	"	

**Calculated Analysis**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sodium Adsorption Ratio</b>	<b>4.09</b>	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
<b>% Solids</b>	<b>88.4</b>		%	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
<b>Specific Conductance (EC)</b>	<b>0.680</b>	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  
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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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>pH</b>	<b>8.24</b>		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

**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
<b>Boron</b>	<b>0.0608</b>	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
<b>Calcium</b>	<b>159</b>	0.0561	mg/L dry	1	BGH0083	08/02/23	08/07/23	EPA 6020B	
<b>Magnesium</b>	<b>29.2</b>	0.0561	"	"	"	"	"	"	
<b>Sodium</b>	<b>395</b>	0.0561	"	"	"	"	"	"	

**Calculated Analysis**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sodium Adsorption Ratio</b>	<b>7.56</b>	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
<b>% Solids</b>	<b>89.2</b>		%	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
<b>Specific Conductance (EC)</b>	<b>1.51</b>	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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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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>pH</b>	<b>8.02</b>		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

**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
<b>Boron</b>	<b>0.101</b>	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
<b>Calcium</b>	<b>178</b>	0.0645	mg/L dry	1	BGH0083	08/02/23	08/07/23	EPA 6020B	
<b>Magnesium</b>	<b>40.7</b>	0.0645	"	"	"	"	"	"	
<b>Sodium</b>	<b>187</b>	0.0645	"	"	"	"	"	"	

**Calculated Analysis**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sodium Adsorption Ratio</b>	<b>3.29</b>	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
<b>% Solids</b>	<b>77.6</b>		%	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
<b>Specific Conductance (EC)</b>	<b>0.576</b>	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  
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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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>pH</b>	<b>7.76</b>		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

**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
<b>Boron</b>	<b>0.0543</b>	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
<b>Calcium</b>	<b>246</b>	0.0642	mg/L dry	1	BGH0083	08/02/23	08/07/23	EPA 6020B	
<b>Magnesium</b>	<b>61.4</b>	0.0642	"	"	"	"	"	"	
<b>Sodium</b>	<b>182</b>	0.0642	"	"	"	"	"	"	

**Calculated Analysis**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sodium Adsorption Ratio</b>	<b>2.69</b>	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
<b>% Solids</b>	<b>77.9</b>		%	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
<b>Specific Conductance (EC)</b>	<b>0.558</b>	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  
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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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>pH</b>	<b>7.52</b>		pH Units	1	BGH0157	08/03/23	08/03/23	EPA 9045D	

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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

**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	<b>0.800</b>	0.200	mg/kg dry	1	BGH0100	08/02/23	08/03/23	EPA 6020B	
Barium	<b>104</b>	0.400	"	"	"	"	"	"	
Cadmium	<b>0.256</b>	0.200	"	"	"	"	"	"	
Copper	<b>1.97</b>	0.400	"	"	"	"	"	"	
Lead	<b>7.10</b>	0.200	"	"	"	"	"	"	
Nickel	<b>2.48</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.288	"	"	"	"	"	"	
Silver	<b>0.0563</b>	0.0200	"	"	"	"	"	"	
Zinc	<b>7.07</b>	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	<b>90.3</b>		%	1	BGH0110	08/02/23	08/03/23	Calculation	

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

**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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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	<b>0.746</b>	0.200	mg/kg dry	1	BGH0100	08/02/23	08/03/23	EPA 6020B	
Barium	<b>77.3</b>	0.400	"	"	"	"	"	"	
Cadmium	<b>0.253</b>	0.200	"	"	"	"	"	"	
Copper	<b>1.66</b>	0.400	"	"	"	"	"	"	
Lead	<b>6.77</b>	0.200	"	"	"	"	"	"	
Nickel	<b>1.94</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.279	"	"	"	"	"	"	
Silver	<b>0.0300</b>	0.0200	"	"	"	"	"	"	
Zinc	<b>7.25</b>	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	<b>93.2</b>		%	1	BGH0110	08/02/23	08/03/23	Calculation	

Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



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	<b>0.457</b>	0.200	mg/kg dry	1	BGH0100	08/02/23	08/03/23	EPA 6020B	
Barium	<b>387</b>	0.400	"	"	"	"	"	"	
Cadmium	<b>0.208</b>	0.200	"	"	"	"	"	"	
Copper	<b>1.88</b>	0.400	"	"	"	"	"	"	
Lead	<b>5.56</b>	0.200	"	"	"	"	"	"	
Nickel	<b>2.27</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.316	"	"	"	"	"	"	
Silver	<b>0.0321</b>	0.0200	"	"	"	"	"	"	
Zinc	<b>8.19</b>	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	<b>82.3</b>		%	1	BGH0110	08/02/23	08/03/23	Calculation	

Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



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

**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

Summit Scientific



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



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		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

**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	

Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



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		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

**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

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

**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

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

**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 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

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



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	Source	%REC		RPD		Notes
		Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

**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	
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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

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

**Summit Scientific**

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

**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	Source	%REC		RPD		Notes
		Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

**Batch BGH0157 - General Preparation**

**LCS (BGH0157-BS1)**

Prepared & Analyzed: 08/03/23

pH 9.16 pH Units 9.18 99.8 95-105

**Duplicate (BGH0157-DUP1)**

Source: 2307599-01

Prepared & Analyzed: 08/03/23

pH 7.66 pH Units 7.66 0.00 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

### 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

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

August 23, 2023

Carter Peace

GIS Peace

2951 Niagara St

Denver, CO 80207

RE: CO State 1 and 2

Work Order #2308375

Enclosed are the results of analyses for samples received by Summit Scientific on 08/16/23 12:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue 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



GIS Peace  
2951 Niagara St  
Denver CO, 80207

Project: CO State 1 and 2

Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
08/23/23 14:01

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S2N	2308375-01	Soil	08/16/23 16:00	08/16/23 12:30
S2S	2308375-02	Soil	08/16/23 16:00	08/16/23 12:30
S2E	2308375-03	Soil	08/16/23 16:00	08/16/23 12:30
S2W	2308375-04	Soil	08/16/23 16:00	08/16/23 12:30

Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

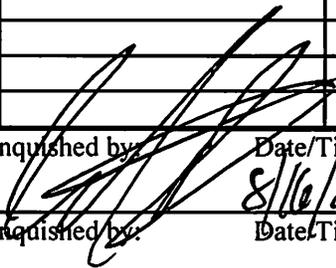
# SUMMIT SCIENTIFIC

4653 Table Mountain Drive  
Golden, CO 80403  
303-277-9310

Lab ID	Page 1 of 1
2308375	

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

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested	Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #		
1	S2N	8/16/23	1000				X			X			
2	S2S												
3	S2E												
4	S2W												
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													

Relinquished by: 	Date/Time: 8/16/23 12:30	Received by: <b>Jah W. J.</b>	Date/Time: 8/16/23 12:30	TAT Business Days	Field DO	Notes: <b>PH. SAT PASTE</b> <b>BROWN HOT WATER</b>
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Temperature Upon Receipt: <b>28.9</b>	Corrected Temperature	IR gun #: <b>2</b>	HNO3 lot #:	Standard	<input checked="" type="checkbox"/> Field Turb.	

S<sub>2</sub>

Sample Receipt Checklist

S2 Work Order# 2308375

Client: GIS People Client Project ID: Co State 1 AND 2

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other [ ] Airbill #: [ ]

[X] [ ] [ ] [ ] [ ]

Matrix (Check all that apply) Air [ ] Soil/Solid [X] Water [ ] Other [ ]

Temp (°C) 28.9 Thermometer # 2

Table with 5 columns: Yes, No, N/A, Comments (if any). Rows include: If samples require cooling, is the temperature < 6°C? (1), If custody seals are present, are they intact? (1), Are samples due within 48 hours present?, Are water samples with short hold times present?, Is a chain-of-custody (COC) form present and filled out Completely? (1), Is the COC properly relinquished by the client w/ date and time recorded? (1), Were all samples received intact? (1), Was adequate sample volume provided? (1), Does the COC agree with the number and type of sample bottles received? (1), Do the sample IDs on the bottle labels match the COC?(1), For volatiles in water - is there headspace present? If yes, contact client and note in narrative., Are samples preserved that require preservation (excluding cooling)? (1) Note the type of preservative in the comments column - HCl, H2SO4, NaOH, HNO3, etc., If samples are acid preserved for metals, is the pH <= 2? (1) Record the pH in Comments., If dissolved metals are requested, were samples field filtered?, Additional Comments (if any):

[Signature] Custodian Printed Name

8/16/23 Date/Time

(1) If NO, then contact the client before proceeding with analysis and note in case narrative.



GIS Peace  
2951 Niagara St  
Denver CO, 80207

Project: CO State 1 and 2

Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
08/23/23 14:01

**S2N**  
**2308375-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **08/16/23 16:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>1.03</b>	0.0100	mg/L	1	BGH0797	08/21/23	08/22/23	EPA 6020B	

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

Date Sampled: **08/16/23 16:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Calcium</b>	<b>67.6</b>	0.0686	mg/L dry	1	BGH0771	08/18/23	08/23/23	EPA 6020B	
<b>Magnesium</b>	<b>12.0</b>	0.0686	"	"	"	"	"	"	
<b>Sodium</b>	<b>75.7</b>	0.0686	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **08/16/23 16:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sodium Adsorption Ratio</b>	<b>2.23</b>	0.00100	units	1	BGH0915	08/23/23	08/23/23	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **08/16/23 16:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>% Solids</b>	<b>72.9</b>		%	1	BGH0785	08/19/23	08/19/23	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **08/16/23 16:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Specific Conductance (EC)</b>	<b>0.357</b>	0.0100	mmhos/cm	1	BGH0813	08/21/23	08/21/23	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:**  
 08/23/23 14:01

**S2N**  
**2308375-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/16/23 16:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>pH</b>	<b>7.40</b>		pH Units	1	BGH0812	08/21/23	08/21/23	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:**  
08/23/23 14:01

**S2S**  
**2308375-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **08/16/23 16:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.993</b>	0.0100	mg/L	1	BGH0797	08/21/23	08/22/23	EPA 6020B	

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

Date Sampled: **08/16/23 16:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Calcium</b>	<b>74.1</b>	0.0690	mg/L dry	1	BGH0771	08/18/23	08/23/23	EPA 6020B	
<b>Magnesium</b>	<b>13.8</b>	0.0690	"	"	"	"	"	"	
<b>Sodium</b>	<b>21.5</b>	0.0690	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **08/16/23 16:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sodium Adsorption Ratio</b>	<b>0.602</b>	0.00100	units	1	BGH0915	08/23/23	08/23/23	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **08/16/23 16:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>% Solids</b>	<b>72.5</b>		%	1	BGH0785	08/19/23	08/19/23	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **08/16/23 16:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Specific Conductance (EC)</b>	<b>0.234</b>	0.0100	mmhos/cm	1	BGH0813	08/21/23	08/21/23	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:**  
 08/23/23 14:01

**S2S**  
**2308375-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/16/23 16:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>pH</b>	<b>6.85</b>		pH Units	1	BGH0812	08/21/23	08/21/23	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:**  
08/23/23 14:01

**S2E**  
**2308375-03 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **08/16/23 16:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.621</b>	0.0100	mg/L	1	BGH0797	08/21/23	08/22/23	EPA 6020B	

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

Date Sampled: **08/16/23 16:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Calcium</b>	<b>86.2</b>	0.0708	mg/L dry	1	BGH0771	08/18/23	08/23/23	EPA 6020B	
<b>Magnesium</b>	<b>15.9</b>	0.0708	"	"	"	"	"	"	
<b>Sodium</b>	<b>14.5</b>	0.0708	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **08/16/23 16:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sodium Adsorption Ratio</b>	<b>0.377</b>	0.00100	units	1	BGH0915	08/23/23	08/23/23	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **08/16/23 16:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>% Solids</b>	<b>70.6</b>		%	1	BGH0785	08/19/23	08/19/23	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **08/16/23 16:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Specific Conductance (EC)</b>	<b>0.200</b>	0.0100	mmhos/cm	1	BGH0813	08/21/23	08/21/23	EPA 120.1	

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

Summit Scientific

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S<sub>2</sub>

GIS Peace  
2951 Niagara St  
Denver CO, 80207

Project: CO State 1 and 2

Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
08/23/23 14:01

**S2E**  
**2308375-03 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/16/23 16:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>pH</b>	<b>6.66</b>		pH Units	1	BGH0812	08/21/23	08/21/23	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:**  
08/23/23 14:01

**S2W**  
**2308375-04 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **08/16/23 16:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>1.86</b>	0.0100	mg/L	1	BGH0797	08/21/23	08/22/23	EPA 6020B	

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

Date Sampled: **08/16/23 16:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Calcium</b>	<b>137</b>	0.0635	mg/L dry	1	BGH0771	08/18/23	08/23/23	EPA 6020B	
<b>Magnesium</b>	<b>22.5</b>	0.0635	"	"	"	"	"	"	
<b>Sodium</b>	<b>92.6</b>	0.0635	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **08/16/23 16:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sodium Adsorption Ratio</b>	<b>1.93</b>	0.00100	units	1	BGH0915	08/23/23	08/23/23	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **08/16/23 16:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>% Solids</b>	<b>78.7</b>		%	1	BGH0785	08/19/23	08/19/23	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **08/16/23 16:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Specific Conductance (EC)</b>	<b>0.403</b>	0.0100	mmhos/cm	1	BGH0813	08/21/23	08/21/23	EPA 120.1	

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

Summit Scientific

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S<sub>2</sub>

GIS Peace  
2951 Niagara St  
Denver CO, 80207

Project: CO State 1 and 2

Project Number: [none]  
Project Manager: Carter Peace

**Reported:**  
08/23/23 14:01

**S2W**  
**2308375-04 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/16/23 16:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>pH</b>	<b>8.18</b>		pH Units	1	BGH0812	08/21/23	08/21/23	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:**  
08/23/23 14:01

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

**Summit Scientific**

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

**Batch BGH0797 - EPA 3050B**

**Blank (BGH0797-BLK1)**

Prepared: 08/21/23 Analyzed: 08/22/23

Boron ND 0.0100 mg/L

**LCS (BGH0797-BS1)**

Prepared: 08/21/23 Analyzed: 08/22/23

Boron 5.45 0.0100 mg/L 5.00 109 80-120

**Duplicate (BGH0797-DUP1)**

Source: 2308375-01

Prepared: 08/21/23 Analyzed: 08/22/23

Boron 1.04 0.0100 mg/L 1.03 0.744 20

**Matrix Spike (BGH0797-MS1)**

Source: 2308375-01

Prepared: 08/21/23 Analyzed: 08/22/23

Boron 6.80 0.0100 mg/L 5.00 1.03 115 75-125

**Matrix Spike Dup (BGH0797-MSD1)**

Source: 2308375-01

Prepared: 08/21/23 Analyzed: 08/22/23

Boron 7.09 0.0100 mg/L 5.00 1.03 121 4.13 25

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:**  
08/23/23 14:01

**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 BGH0771 - General Preparation**

**Blank (BGH0771-BLK1)**

Prepared: 08/18/23 Analyzed: 08/23/23

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

**LCS (BGH0771-BS1)**

Prepared: 08/18/23 Analyzed: 08/23/23

Calcium	5.75	0.0500	mg/L wet	5.00		115	70-130			
Magnesium	5.34	0.0500	"	5.00		107	70-130			
Sodium	5.38	0.0500	"	5.00		108	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:**  
 08/23/23 14:01

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

**Summit Scientific**

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

**Batch BGH0785 - General Preparation**

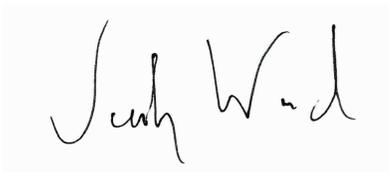
**Duplicate (BGH0785-DUP1)**

**Source: 2308174-03**

Prepared & Analyzed: 08/19/23

% Solids	79.1		%		80.4			1.60	20	
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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:**  
08/23/23 14:01

**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			%REC	Limits	RPD	Limit	

**Batch BGH0813 - General Preparation**

**Blank (BGH0813-BLK1)**

Prepared & Analyzed: 08/21/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BGH0813-BS1)**

Prepared & Analyzed: 08/21/23

Specific Conductance (EC) 0.154 0.0100 mmhos/cm 0.150 103 95-105

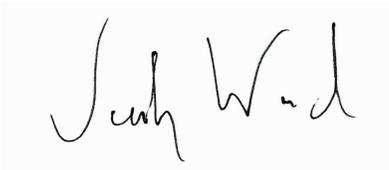
**Duplicate (BGH0813-DUP1)**

Source: 2308375-01

Prepared & Analyzed: 08/21/23

Specific Conductance (EC) 0.357 0.0100 mmhos/cm 0.357 0.00 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:**  
 08/23/23 14:01

**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 BGH0812 - General Preparation**

**LCS (BGH0812-BS1)**

Prepared & Analyzed: 08/21/23

pH	8.93	pH Units	9.18	97.3	95-105
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**Duplicate (BGH0812-DUP1)**

Source: 2308375-01

Prepared & Analyzed: 08/21/23

pH	7.40	pH Units	7.40	0.00	20
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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:**  
08/23/23 14:01

### Notes and Definitions

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