



## **ATTACHMENT B**

### **Laboratory Analytical Reports**

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80401

303.277.9310

November 07, 2023

Andrew Newberry

Eagle Environmental Consulting

8000 W 44th Ave

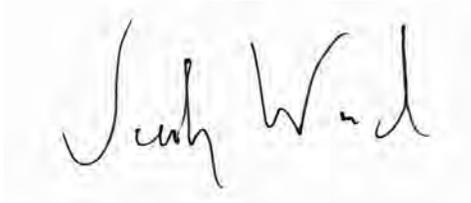
Wheat Ridge, CO 80033

RE: Civitas - Sam 25H-M166

Work Order # 2310517

Enclosed are the results of analyses for samples received by Summit Scientific on 10/26/23 17:33. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Jacob Wood For Paul Shrewsbury

President



Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]  
Project Manager: Andrew Newberry

**Reported:**  
11/07/23 09:00

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
HA-SS-09@15'	2310517-01	Soil	10/26/23 09:30	10/26/23 17:33
HA-SS-10@15'	2310517-02	Soil	10/26/23 09:50	10/26/23 17:33
HA-SS-11@15'	2310517-03	Soil	10/26/23 10:35	10/26/23 17:33
HA-SS-12@15'	2310517-04	Soil	10/26/23 10:00	10/26/23 17:33
HA-SS-13@15'	2310517-05	Soil	10/26/23 11:15	10/26/23 17:33
HA-SS-14@15'	2310517-06	Soil	10/26/23 11:45	10/26/23 17:33

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
2310517	

Send Data To:		Send Invoice To:	
Client: <i>Eagle Env. Consulting</i>	Project Manager: <i>A. Newberry</i>	Company: <i>Civiks</i>	
Address: <i>8000 W. 44th Ave</i>	E-Mail: <i>anewberry@eagle-env.com</i>	Project Name/Location:	
City/State/Zip: <i>Wheat Ridge, CO 80033</i>	Project Name: <i>Sam 25H-M 1146</i>	AFE#:	
Phone: <i>(303) 433-0477</i>	Project Number: <i>-</i>	PO/Billing Codes:	
Sampler Name: <i>TC / BU</i>		Contact: <i>Costin</i>	

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	6,8,10,15,20,25,30,35,40,45,50,55,60,65,70,75,80,85,90,95,100,105,110,115,120,125,130,135,140,145,150,155,160,165,170,175,180,185,190,195,200,205,210,215,220,225,230,235,240,245,250,255,260,265,270,275,280,285,290,295,300,305,310,315,320,325,330,335,340,345,350,355,360,365,370,375,380,385,390,395,400,405,410,415,420,425,430,435,440,445,450,455,460,465,470,475,480,485,490,495,500,505,510,515,520,525,530,535,540,545,550,555,560,565,570,575,580,585,590,595,600,605,610,615,620,625,630,635,640,645,650,655,660,665,670,675,680,685,690,695,700,705,710,715,720,725,730,735,740,745,750,755,760,765,770,775,780,785,790,795,800,805,810,815,820,825,830,835,840,845,850,855,860,865,870,875,880,885,890,895,900,905,910,915,920,925,930,935,940,945,950,955,960,965,970,975,980,985,990,995,1000	PAHs	EC	SAR	pH	Table	
1	HA-SS-09 @ 15'	10-26-23	0930	2			X			X			X	X	X	X	X	X	X	EC/SAR/pH = St.
2	HA-SS-10 @ 15'		0950																	Part Proj
3	HA-SS-11 @ 15'		1035																	
4	HA-SS-12 @ 15'		1000																	
5	HA-SS-13 @ 15'		1115																	
6	HA-SS-14 @ 15'		1145																	
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				

Relinquished by: <i>Trevor Copple</i>	Date/Time: <i>10-26-23 1730</i>	Received by: <i>John W. D.</i>	Date/Time: <i>10-26-23 1735</i>	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: <i>6.5</i>	Corrected Temperature	IR gun #: <i>2</i>	HNO3 lot #:			

S<sub>2</sub>

S2 Work Order# 2310517

Sample Receipt Checklist

Client: Eagle Environmental Consulting Client Project ID: SAM 25H-M166

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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ON ICE
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"/>	SAME DAY
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.

Josh  
Custodian Printed Name

10-26-23 1733  
Date/Time



Eagle Environmental Consulting  
 8000 W 44th Ave  
 Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]  
 Project Manager: Andrew Newberry

**Reported:**  
 11/07/23 09:00

**HA-SS-09@15'**  
**2310517-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/26/23 09:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGJ1092	10/26/23	10/26/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>0.038</b>	<b>0.50</b>		"	"	"	"	"	"	J

Date Sampled: **10/26/23 09:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		75.2 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		84.9 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		86.8 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/26/23 09:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>C10-C28 (DRO)</b>	<b>28</b>	50	4.3	mg/kg	1	BGJ1093	10/26/23	10/26/23	EPA 8015M	J
<b>C28-C36 (ORO)</b>	<b>11</b>	50	4.3	"	"	"	"	"	"	J

Date Sampled: **10/26/23 09:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		105 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]  
Project Manager: Andrew Newberry

**Reported:**  
11/07/23 09:00

**HA-SS-09@15'**  
**2310517-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/26/23 09:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGJ1100	10/27/23	10/28/23	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	0.00167	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	0.00118	"	"	"	"	"	"	
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	0.00185	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	0.00189	"	"	"	"	"	"	

Date Sampled: **10/26/23 09:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		52.2 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		46.4 %		40-150		"	"	"	"	

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

Date Sampled: **10/26/23 09:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	ND	2.00	0.00690	mg/L	1	BGJ1114	10/27/23	11/01/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/26/23 09:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							

Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]  
Project Manager: Andrew Newberry

**Reported:**  
11/07/23 09:00

**HA-SS-09@15'**  
**2310517-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.59	0.200	0.168	mg/kg dry	1	BGJ1171	10/30/23	10/31/23	EPA 6020B	
Barium	28.6	0.400	0.316	"	"	"	"	"	"	
Cadmium	0.0472	0.200	0.00720	"	"	"	"	"	"	J
Copper	1.63	0.400	0.0209	"	"	"	"	"	"	
Lead	4.81	0.200	0.0550	"	"	"	"	"	"	
Nickel	3.41	0.400	0.0610	"	"	"	"	"	"	
Silver	0.00347	0.0200	0.00267	"	"	"	"	"	"	J
Zinc	16.8	0.400	0.266	"	"	"	"	"	"	
Selenium	ND	0.260	0.175	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 10/26/23 09:30

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	0.040	mg/kg dry	1	BGJ1117	10/27/23	10/27/23	EPA 7196A	

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

Date Sampled: 10/26/23 09:30

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	52.2	0.0500		mg/L dry	1	BGJ1097	10/26/23	10/31/23	EPA 6020B	
Magnesium	22.8	0.0500		"	"	"	"	"	"	
Sodium	46.2	0.0500		"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: 10/26/23 09:30

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.34	0.00100		units	1	BGJ1245	10/31/23	10/31/23	Calculation	

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

Summit Scientific

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Eagle Environmental Consulting  
 8000 W 44th Ave  
 Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]  
 Project Manager: Andrew Newberry

**Reported:**  
 11/07/23 09:00

**HA-SS-09@15'**  
**2310517-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/26/23 09:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	92.3			%	1	BGJ1136	10/27/23	10/27/23	Calculation	

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

Date Sampled: **10/26/23 09:30**

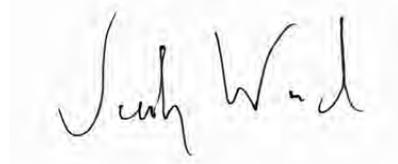
Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.244	0.0100	0.00100	mmhos/cm	1	BGJ1099	10/27/23	10/30/23	EPA 120.1	

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

Date Sampled: **10/26/23 09:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	8.74			pH Units	1	BGJ1101	10/27/23	10/30/23	EPA 9045D	

Summit Scientific



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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]  
Project Manager: Andrew Newberry

**Reported:**  
11/07/23 09:00

**HA-SS-10@15'**  
**2310517-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/26/23 09:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Toluene</b>	<b>0.0047</b>	0.0050	0.00025	mg/kg	1	BGJ1092	10/26/23	10/26/23	EPA 8260B	J
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>0.019</b>	0.010	0.00044	"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>0.0044</b>	0.0050	0.00024	"	"	"	"	"	"	J
<b>1,3,5-Trimethylbenzene</b>	<b>0.0086</b>	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>0.82</b>	0.50		"	"	"	"	"	"	

Date Sampled: **10/26/23 09:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		76.3 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		83.8 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89.0 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/26/23 09:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>C10-C28 (DRO)</b>	<b>33</b>	50	4.3	mg/kg	1	BGJ1093	10/26/23	10/26/23	EPA 8015M	J
<b>C28-C36 (ORO)</b>	<b>11</b>	50	4.3	"	"	"	"	"	"	J

Date Sampled: **10/26/23 09:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		112 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/26/23 09:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							

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Eagle Environmental Consulting  
 8000 W 44th Ave  
 Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]  
 Project Manager: Andrew Newberry

**Reported:**  
 11/07/23 09:00

**HA-SS-10@15'**  
**2310517-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGJ1100	10/27/23	10/28/23	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	0.00167	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	0.00118	"	"	"	"	"	"	
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	0.00185	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	0.00189	"	"	"	"	"	"	

Date Sampled: **10/26/23 09:50**

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	54.8 %			40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	52.0 %			40-150		"	"	"	"	

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

Date Sampled: **10/26/23 09:50**

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0189</b>	2.00	0.00690	mg/L	1	BGJ1114	10/27/23	11/01/23	EPA 6020B	J

**Total Metals by EPA 6020B**

Date Sampled: **10/26/23 09:50**

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Arsenic</b>	<b>2.17</b>	0.200	0.168	mg/kg dry	1	BGJ1171	10/30/23	10/31/23	EPA 6020B	
<b>Barium</b>	<b>30.5</b>	0.400	0.316	"	"	"	"	"	"	
<b>Cadmium</b>	<b>0.0453</b>	0.200	0.00720	"	"	"	"	"	"	J
<b>Copper</b>	<b>2.16</b>	0.400	0.0209	"	"	"	"	"	"	

Summit Scientific

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Eagle Environmental Consulting  
 8000 W 44th Ave  
 Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]  
 Project Manager: Andrew Newberry

**Reported:**  
 11/07/23 09:00

**HA-SS-10@15'**  
**2310517-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	5.92	0.200	0.0550	mg/kg dry	1	BGJ1171	10/30/23	10/31/23	EPA 6020B	
Nickel	3.77	0.400	0.0610	"	"	"	"	"	"	
Silver	0.00398	0.0200	0.00267	"	"	"	"	"	"	J
Zinc	20.2	0.400	0.266	"	"	"	"	"	"	
Selenium	ND	0.260	0.175	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 10/26/23 09:50

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	0.040	mg/kg dry	1	BGJ1117	10/27/23	10/27/23	EPA 7196A	

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

Date Sampled: 10/26/23 09:50

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	43.1	0.0500		mg/L dry	1	BGJ1097	10/26/23	10/31/23	EPA 6020B	
Magnesium	26.5	0.0500		"	"	"	"	"	"	
Sodium	112	0.0500		"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: 10/26/23 09:50

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.31	0.00100		units	1	BGJ1245	10/31/23	10/31/23	Calculation	

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

Date Sampled: 10/26/23 09:50

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.3			%	1	BGJ1136	10/27/23	10/27/23	Calculation	

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

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Eagle Environmental Consulting  
 8000 W 44th Ave  
 Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]  
 Project Manager: Andrew Newberry

**Reported:**  
 11/07/23 09:00

**HA-SS-10@15'**  
**2310517-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/26/23 09:50**

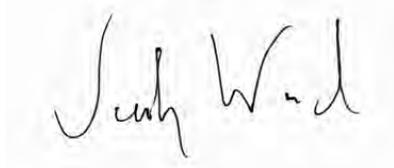
Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	<b>0.779</b>	0.0100	0.00100	mmhos/cm	1	BGJ1099	10/27/23	10/30/23	EPA 120.1	

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

Date Sampled: **10/26/23 09:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>pH</b>	<b>7.79</b>			pH Units	1	BGJ1101	10/27/23	10/30/23	EPA 9045D	

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 8000 W 44th Ave  
 Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]  
 Project Manager: Andrew Newberry

**Reported:**  
 11/07/23 09:00

**HA-SS-10@15'**  
**2310517-02 (Soil)**

**Summit Scientific**

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

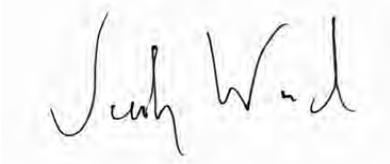
Date Sampled: **10/26/23 09:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGK0022	10/26/23	11/01/23	EPA 8260B	

Date Sampled: **10/26/23 09:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		102 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		107 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %		50-150		"	"	"	"	

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]  
Project Manager: Andrew Newberry

Reported:  
11/07/23 09:00

**HA-SS-11@15'**  
**2310517-03 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/26/23 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGJ1092	10/26/23	10/26/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>0.039</b>	<b>0.50</b>		"	"	"	"	"	"	J

Date Sampled: **10/26/23 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		74.2 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		83.2 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		86.5 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/26/23 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>C10-C28 (DRO)</b>	<b>42</b>	<b>50</b>	<b>4.3</b>	mg/kg	1	BGJ1093	10/26/23	10/26/23	EPA 8015M	J
<b>C28-C36 (ORO)</b>	<b>11</b>	<b>50</b>	<b>4.3</b>	"	"	"	"	"	"	J

Date Sampled: **10/26/23 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		82.8 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]  
Project Manager: Andrew Newberry

**Reported:**  
11/07/23 09:00

**HA-SS-11@15'**  
**2310517-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/26/23 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGJ1100	10/27/23	10/28/23	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	0.00167	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	0.00118	"	"	"	"	"	"	
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	0.00185	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	0.00189	"	"	"	"	"	"	

Date Sampled: **10/26/23 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		60.8 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		55.0 %		40-150		"	"	"	"	

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

Date Sampled: **10/26/23 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Boron</b>	<b>0.00762</b>	2.00	0.00690	mg/L	1	BGJ1114	10/27/23	11/01/23	EPA 6020B	J

**Total Metals by EPA 6020B**

Date Sampled: **10/26/23 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							

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Eagle Environmental Consulting  
 8000 W 44th Ave  
 Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]  
 Project Manager: Andrew Newberry

**Reported:**  
 11/07/23 09:00

**HA-SS-11@15'**  
**2310517-03 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.85	0.200	0.168	mg/kg dry	1	BGJ1171	10/30/23	10/31/23	EPA 6020B	
Barium	50.6	0.400	0.316	"	"	"	"	"	"	
Cadmium	0.0760	0.200	0.00720	"	"	"	"	"	"	J
Copper	2.44	0.400	0.0209	"	"	"	"	"	"	
Lead	6.84	0.200	0.0550	"	"	"	"	"	"	
Nickel	4.14	0.400	0.0610	"	"	"	"	"	"	
Silver	0.00373	0.0200	0.00267	"	"	"	"	"	"	J
Zinc	22.6	0.400	0.266	"	"	"	"	"	"	
Selenium	ND	0.260	0.175	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 10/26/23 10:35

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	0.040	mg/kg dry	1	BGJ1117	10/27/23	10/27/23	EPA 7196A	

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

Date Sampled: 10/26/23 10:35

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	13.9	0.0500		mg/L dry	1	BGJ1097	10/26/23	10/31/23	EPA 6020B	
Magnesium	7.42	0.0500		"	"	"	"	"	"	
Sodium	68.8	0.0500		"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: 10/26/23 10:35

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.71	0.00100		units	1	BGJ1245	10/31/23	10/31/23	Calculation	

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

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 8000 W 44th Ave  
 Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]  
 Project Manager: Andrew Newberry

**Reported:**  
 11/07/23 09:00

**HA-SS-11@15'**  
**2310517-03 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/26/23 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	85.8			%	1	BGJ1136	10/27/23	10/27/23	Calculation	

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

Date Sampled: **10/26/23 10:35**

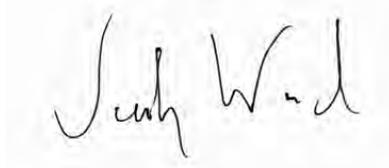
Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.382	0.0100	0.00100	mmhos/cm	1	BGJ1099	10/27/23	10/30/23	EPA 120.1	

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

Date Sampled: **10/26/23 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	8.21			pH Units	1	BGJ1101	10/27/23	10/30/23	EPA 9045D	

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8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]  
Project Manager: Andrew Newberry

**Reported:**  
11/07/23 09:00

**HA-SS-12@15'**  
**2310517-04 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/26/23 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGJ1092	10/26/23	10/26/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>0.039</b>	0.50		"	"	"	"	"	"	J

Date Sampled: **10/26/23 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		74.4 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		83.0 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		84.7 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/26/23 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>C10-C28 (DRO)</b>	<b>47</b>	50	4.3	mg/kg	1	BGJ1093	10/26/23	10/26/23	EPA 8015M	J
<b>C28-C36 (ORO)</b>	<b>12</b>	50	4.3	"	"	"	"	"	"	J

Date Sampled: **10/26/23 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		90.0 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]  
Project Manager: Andrew Newberry

**Reported:**  
11/07/23 09:00

**HA-SS-12@15'**  
**2310517-04 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/26/23 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGJ1100	10/27/23	10/28/23	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	"
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.00500	0.00167	"	"	"	"	"	"	"
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	"
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.00500	0.00118	"	"	"	"	"	"	"
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	"
1-Methylnaphthalene	ND	0.00500	0.00185	"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.00500	0.00189	"	"	"	"	"	"	"

Date Sampled: **10/26/23 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		63.3 %		40-150		"	"	"	"	"
Surrogate: Fluoranthene-d10		54.4 %		40-150		"	"	"	"	"

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

Date Sampled: **10/26/23 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Boron</b>	<b>0.0223</b>	2.00	0.00690	mg/L	1	BGJ1114	10/27/23	11/01/23	EPA 6020B	J

**Total Metals by EPA 6020B**

Date Sampled: **10/26/23 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							

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8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]  
Project Manager: Andrew Newberry

**Reported:**  
11/07/23 09:00

**HA-SS-12@15'**  
**2310517-04 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.93	0.200	0.168	mg/kg dry	1	BGJ1171	10/30/23	10/31/23	EPA 6020B	
Barium	51.0	0.400	0.316	"	"	"	"	"	"	
Cadmium	0.0592	0.200	0.00720	"	"	"	"	"	"	J
Copper	1.57	0.400	0.0209	"	"	"	"	"	"	
Lead	4.00	0.200	0.0550	"	"	"	"	"	"	
Nickel	2.61	0.400	0.0610	"	"	"	"	"	"	
Silver	0.00512	0.0200	0.00267	"	"	"	"	"	"	J
Zinc	13.1	0.400	0.266	"	"	"	"	"	"	
Selenium	ND	0.260	0.175	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/26/23 10:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	0.040	mg/kg dry	1	BGJ1117	10/27/23	10/27/23	EPA 7196A	

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

Date Sampled: **10/26/23 10:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	17.8	0.0500		mg/L dry	1	BGJ1097	10/26/23	10/31/23	EPA 6020B	
Magnesium	8.70	0.0500		"	"	"	"	"	"	
Sodium	109	0.0500		"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/26/23 10:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.29	0.00100		units	1	BGJ1245	10/31/23	10/31/23	Calculation	

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

Summit Scientific

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Eagle Environmental Consulting  
 8000 W 44th Ave  
 Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]  
 Project Manager: Andrew Newberry

**Reported:**  
 11/07/23 09:00

**HA-SS-12@15'**  
**2310517-04 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/26/23 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	85.9			%	1	BGJ1136	10/27/23	10/27/23	Calculation	

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

Date Sampled: **10/26/23 10:00**

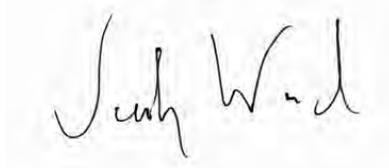
Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.607	0.0100	0.00100	mmhos/cm	1	BGJ1099	10/27/23	10/30/23	EPA 120.1	

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

Date Sampled: **10/26/23 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	8.25			pH Units	1	BGJ1101	10/27/23	10/30/23	EPA 9045D	

Summit Scientific



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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]  
Project Manager: Andrew Newberry

Reported:  
11/07/23 09:00

**HA-SS-13@15'**  
**2310517-05 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/26/23 11:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGJ1092	10/26/23	10/26/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>0.036</b>	0.50		"	"	"	"	"	"	J

Date Sampled: **10/26/23 11:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		78.1 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		87.4 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		85.7 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/26/23 11:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>C10-C28 (DRO)</b>	<b>45</b>	50	4.3	mg/kg	1	BGJ1093	10/26/23	10/26/23	EPA 8015M	J
<b>C28-C36 (ORO)</b>	<b>11</b>	50	4.3	"	"	"	"	"	"	J

Date Sampled: **10/26/23 11:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		103 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]  
Project Manager: Andrew Newberry

**Reported:**  
11/07/23 09:00

**HA-SS-13@15'**  
**2310517-05 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/26/23 11:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGJ1100	10/27/23	10/28/23	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	0.00167	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	0.00118	"	"	"	"	"	"	
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	0.00185	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	0.00189	"	"	"	"	"	"	

Date Sampled: **10/26/23 11:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		62.4 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		55.1 %		40-150		"	"	"	"	

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

Date Sampled: **10/26/23 11:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Boron</b>	<b>0.0462</b>	2.00	0.00690	mg/L	1	BGJ1114	10/27/23	11/01/23	EPA 6020B	J

**Total Metals by EPA 6020B**

Date Sampled: **10/26/23 11:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							

Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]  
Project Manager: Andrew Newberry

**Reported:**  
11/07/23 09:00

**HA-SS-13@15'**  
**2310517-05 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.56	0.200	0.168	mg/kg dry	1	BGJ1171	10/30/23	10/31/23	EPA 6020B	
Barium	51.8	0.400	0.316	"	"	"	"	"	"	
Cadmium	0.0831	0.200	0.00720	"	"	"	"	"	"	J
Copper	1.86	0.400	0.0209	"	"	"	"	"	"	
Lead	5.25	0.200	0.0550	"	"	"	"	"	"	
Nickel	3.55	0.400	0.0610	"	"	"	"	"	"	
Silver	0.00484	0.0200	0.00267	"	"	"	"	"	"	J
Zinc	15.6	0.400	0.266	"	"	"	"	"	"	
Selenium	ND	0.260	0.175	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 10/26/23 11:15

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	0.040	mg/kg dry	1	BGJ1117	10/27/23	10/27/23	EPA 7196A	

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

Date Sampled: 10/26/23 11:15

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	11.6	0.0500		mg/L dry	1	BGJ1097	10/26/23	10/31/23	EPA 6020B	
Magnesium	4.83	0.0500		"	"	"	"	"	"	
Sodium	63.0	0.0500		"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: 10/26/23 11:15

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.92	0.00100		units	1	BGJ1245	10/31/23	10/31/23	Calculation	

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

Summit Scientific

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Eagle Environmental Consulting  
 8000 W 44th Ave  
 Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]  
 Project Manager: Andrew Newberry

**Reported:**  
 11/07/23 09:00

**HA-SS-13@15'**  
**2310517-05 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/26/23 11:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	<b>90.9</b>			%	1	BGJ1136	10/27/23	10/27/23	Calculation	

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

Date Sampled: **10/26/23 11:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	<b>0.365</b>	0.0100	0.00100	mmhos/cm	1	BGJ1099	10/27/23	10/30/23	EPA 120.1	

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

Date Sampled: **10/26/23 11:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	<b>9.04</b>			pH Units	1	BGJ1101	10/27/23	10/30/23	EPA 9045D	

Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]  
Project Manager: Andrew Newberry

**Reported:**  
11/07/23 09:00

**HA-SS-14@15'**  
**2310517-06 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/26/23 11:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGJ1092	10/26/23	10/26/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>0.041</b>	0.50		"	"	"	"	"	"	J

Date Sampled: **10/26/23 11:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		75.4 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		84.2 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		85.0 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/26/23 11:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50	4.3	mg/kg	1	BGJ1093	10/26/23	10/26/23	EPA 8015M	
<b>C28-C36 (ORO)</b>	<b>11</b>	50	4.3	"	"	"	"	"	"	J

Date Sampled: **10/26/23 11:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		104 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]  
Project Manager: Andrew Newberry

**Reported:**  
11/07/23 09:00

**HA-SS-14@15'**  
**2310517-06 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/26/23 11:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGJ1100	10/27/23	10/28/23	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	"
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.00500	0.00167	"	"	"	"	"	"	"
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	"
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.00500	0.00118	"	"	"	"	"	"	"
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	"
1-Methylnaphthalene	ND	0.00500	0.00185	"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.00500	0.00189	"	"	"	"	"	"	"

Date Sampled: **10/26/23 11:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		62.7 %		40-150		"	"	"	"	"
Surrogate: Fluoranthene-d10		54.7 %		40-150		"	"	"	"	"

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

Date Sampled: **10/26/23 11:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Boron</b>	<b>0.0467</b>	2.00	0.00690	mg/L	1	BGJ1114	10/27/23	11/01/23	EPA 6020B	J

**Total Metals by EPA 6020B**

Date Sampled: **10/26/23 11:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							

Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]  
Project Manager: Andrew Newberry

**Reported:**  
11/07/23 09:00

**HA-SS-14@15'**  
**2310517-06 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.51	0.200	0.168	mg/kg dry	1	BGJ1171	10/30/23	10/31/23	EPA 6020B	
Barium	51.7	0.400	0.316	"	"	"	"	"	"	
Cadmium	0.0712	0.200	0.00720	"	"	"	"	"	"	J
Copper	1.79	0.400	0.0209	"	"	"	"	"	"	
Lead	5.38	0.200	0.0550	"	"	"	"	"	"	
Nickel	3.25	0.400	0.0610	"	"	"	"	"	"	
Silver	0.00434	0.0200	0.00267	"	"	"	"	"	"	J
Zinc	15.3	0.400	0.266	"	"	"	"	"	"	
Selenium	ND	0.260	0.175	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 10/26/23 11:45

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	0.040	mg/kg dry	1	BGJ1117	10/27/23	10/27/23	EPA 7196A	

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

Date Sampled: 10/26/23 11:45

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	11.0	0.0500		mg/L dry	1	BGJ1097	10/26/23	10/31/23	EPA 6020B	
Magnesium	4.43	0.0500		"	"	"	"	"	"	
Sodium	58.2	0.0500		"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: 10/26/23 11:45

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.75	0.00100		units	1	BGJ1245	10/31/23	10/31/23	Calculation	

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

Summit Scientific

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Eagle Environmental Consulting  
 8000 W 44th Ave  
 Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]  
 Project Manager: Andrew Newberry

**Reported:**  
 11/07/23 09:00

**HA-SS-14@15'**  
**2310517-06 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/26/23 11:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	92.1			%	1	BGJ1136	10/27/23	10/27/23	Calculation	

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

Date Sampled: **10/26/23 11:45**

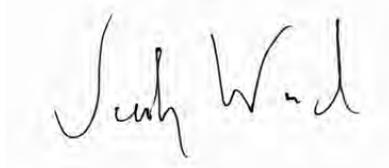
Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.331	0.0100	0.00100	mmhos/cm	1	BGJ1099	10/27/23	10/30/23	EPA 120.1	

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

Date Sampled: **10/26/23 11:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	8.93			pH Units	1	BGJ1101	10/27/23	10/30/23	EPA 9045D	

Summit Scientific



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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]  
Project Manager: Andrew Newberry

Reported:  
11/07/23 09:00

### 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 BGJ1092 - EPA 5030 Soil MS

##### Blank (BGJ1092-BLK1)

Prepared: 10/26/23 Analyzed: 10/27/23

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>	0.0282		"	0.0400		70.4	50-150			
<i>Surrogate: Toluene-d8</i>	0.0331		"	0.0400		82.8	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0335		"	0.0400		83.8	50-150			

##### LCS (BGJ1092-BS1)

Prepared: 10/26/23 Analyzed: 10/27/23

Benzene	0.102	0.0020	mg/kg	0.100		102	70-130			
Toluene	0.0837	0.0050	"	0.100		83.7	70-130			
Ethylbenzene	0.0910	0.0050	"	0.100		91.0	70-130			
m,p-Xylene	0.189	0.010	"	0.200		94.4	70-130			
o-Xylene	0.0919	0.0050	"	0.100		91.9	70-130			
1,2,4-Trimethylbenzene	0.0920	0.0050	"	0.100		92.0	70-130			
1,3,5-Trimethylbenzene	0.0929	0.0050	"	0.100		92.9	70-130			
Naphthalene	0.0902	0.0038	"	0.100		90.2	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0281		"	0.0400		70.4	50-150			
<i>Surrogate: Toluene-d8</i>	0.0339		"	0.0400		84.8	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0346		"	0.0400		86.6	50-150			

##### Matrix Spike (BGJ1092-MS1)

Source: 2310452-02

Prepared: 10/26/23 Analyzed: 10/27/23

Benzene	0.0916	0.0020	mg/kg	0.100	ND	91.6	70-130			
Toluene	0.0718	0.0050	"	0.100	ND	71.8	70-130			
Ethylbenzene	0.0800	0.0050	"	0.100	ND	80.0	70-130			
m,p-Xylene	0.166	0.010	"	0.200	ND	83.0	70-130			
o-Xylene	0.0816	0.0050	"	0.100	ND	81.6	70-130			
1,2,4-Trimethylbenzene	0.0831	0.0050	"	0.100	ND	83.1	70-130			
1,3,5-Trimethylbenzene	0.0812	0.0050	"	0.100	ND	81.2	70-130			
Naphthalene	0.0957	0.0038	"	0.100	ND	95.7	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0307		"	0.0400		76.8	50-150			
<i>Surrogate: Toluene-d8</i>	0.0333		"	0.0400		83.3	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0350		"	0.0400		87.6	50-150			

Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]  
Project Manager: Andrew Newberry

**Reported:**  
11/07/23 09:00

**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 BGJ1092 - EPA 5030 Soil MS**

**Matrix Spike Dup (BGJ1092-MSD1)**

Source: 2310452-02

Prepared: 10/26/23 Analyzed: 10/27/23

Benzene	0.0863	0.0020	mg/kg	0.100	ND	86.3	70-130	5.94	30	
Toluene	0.0713	0.0050	"	0.100	ND	71.3	70-130	0.629	30	
Ethylbenzene	0.0756	0.0050	"	0.100	ND	75.6	70-130	5.67	30	
m,p-Xylene	0.157	0.010	"	0.200	ND	78.4	70-130	5.65	30	
o-Xylene	0.0775	0.0050	"	0.100	ND	77.5	70-130	5.13	30	
1,2,4-Trimethylbenzene	0.0783	0.0050	"	0.100	ND	78.3	70-130	5.98	30	
1,3,5-Trimethylbenzene	0.0769	0.0050	"	0.100	ND	76.9	70-130	5.35	30	
Naphthalene	0.0955	0.0038	"	0.100	ND	95.5	70-130	0.251	30	
Surrogate: 1,2-Dichloroethane-d4	0.0294		"	0.0400		73.5	50-150			
Surrogate: Toluene-d8	0.0344		"	0.0400		85.9	50-150			
Surrogate: 4-Bromofluorobenzene	0.0350		"	0.0400		87.5	50-150			

**Batch BGK0022 - EPA 5030 Soil MS**

**Blank (BGK0022-BLK1)**

Prepared & Analyzed: 11/01/23

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	0.0399		"	0.0400		99.8	50-150			
Surrogate: Toluene-d8	0.0459		"	0.0400		115	50-150			
Surrogate: 4-Bromofluorobenzene	0.0407		"	0.0400		102	50-150			

Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]  
Project Manager: Andrew Newberry

Reported:  
11/07/23 09:00

**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 BGK0022 - EPA 5030 Soil MS**

**LCS (BGK0022-BS1)**

Prepared & Analyzed: 11/01/23

Benzene	0.124	0.0020	mg/kg	0.100		124	70-130			
Toluene	0.130	0.0050	"	0.100		130	70-130			
Ethylbenzene	0.115	0.0050	"	0.100		115	70-130			
m,p-Xylene	0.224	0.010	"	0.200		112	70-130			
o-Xylene	0.105	0.0050	"	0.100		105	70-130			
1,2,4-Trimethylbenzene	0.110	0.0050	"	0.100		110	70-130			
1,3,5-Trimethylbenzene	0.110	0.0050	"	0.100		110	70-130			
Naphthalene	0.110	0.0038	"	0.100		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0410		"	0.0400		103	50-150			
Surrogate: Toluene-d8	0.0449		"	0.0400		112	50-150			
Surrogate: 4-Bromofluorobenzene	0.0379		"	0.0400		94.8	50-150			

**Matrix Spike (BGK0022-MS1)**

Source: 2310583-01

Prepared & Analyzed: 11/01/23

Benzene	0.108	0.0020	mg/kg	0.100	ND	108	70-130			
Toluene	0.111	0.0050	"	0.100	ND	111	70-130			
Ethylbenzene	0.0992	0.0050	"	0.100	ND	99.2	70-130			
m,p-Xylene	0.193	0.010	"	0.200	ND	96.6	70-130			
o-Xylene	0.0941	0.0050	"	0.100	ND	94.1	70-130			
1,2,4-Trimethylbenzene	0.0941	0.0050	"	0.100	ND	94.1	70-130			
1,3,5-Trimethylbenzene	0.0945	0.0050	"	0.100	ND	94.5	70-130			
Naphthalene	0.118	0.0038	"	0.100	ND	118	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0407		"	0.0400		102	50-150			
Surrogate: Toluene-d8	0.0435		"	0.0400		109	50-150			
Surrogate: 4-Bromofluorobenzene	0.0412		"	0.0400		103	50-150			

**Matrix Spike Dup (BGK0022-MSD1)**

Source: 2310583-01

Prepared & Analyzed: 11/01/23

Benzene	0.109	0.0020	mg/kg	0.100	ND	109	70-130	0.749	30	
Toluene	0.115	0.0050	"	0.100	ND	115	70-130	3.63	30	
Ethylbenzene	0.0998	0.0050	"	0.100	ND	99.8	70-130	0.573	30	
m,p-Xylene	0.192	0.010	"	0.200	ND	95.9	70-130	0.701	30	
o-Xylene	0.0919	0.0050	"	0.100	ND	91.9	70-130	2.32	30	
1,2,4-Trimethylbenzene	0.0923	0.0050	"	0.100	ND	92.3	70-130	1.87	30	
1,3,5-Trimethylbenzene	0.0939	0.0050	"	0.100	ND	93.9	70-130	0.605	30	
Naphthalene	0.119	0.0038	"	0.100	ND	119	70-130	0.758	30	
Surrogate: 1,2-Dichloroethane-d4	0.0413		"	0.0400		103	50-150			
Surrogate: Toluene-d8	0.0443		"	0.0400		111	50-150			
Surrogate: 4-Bromofluorobenzene	0.0402		"	0.0400		100	50-150			

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Eagle Environmental Consulting  
 8000 W 44th Ave  
 Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]  
 Project Manager: Andrew Newberry

**Reported:**  
 11/07/23 09:00

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

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

**Batch BGJ1093 - EPA 3550A**

**Blank (BGJ1093-BLK1)**

Prepared & Analyzed: 10/26/23

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: <i>o</i> -Terphenyl	18.1		"	12.5		145		30-150		

**LCS (BGJ1093-BS1)**

Prepared: 10/26/23 Analyzed: 10/27/23

C10-C28 (DRO)	530	50	mg/kg	500		106		70-130		
Surrogate: <i>o</i> -Terphenyl	12.7		"	12.5		102		30-150		

**Matrix Spike (BGJ1093-MS1)**

Source: 2310452-02

Prepared: 10/26/23 Analyzed: 10/27/23

C10-C28 (DRO)	499	50	mg/kg	500	14.7	96.9		70-130		
Surrogate: <i>o</i> -Terphenyl	13.4		"	12.5		108		30-150		

**Matrix Spike Dup (BGJ1093-MSD1)**

Source: 2310452-02

Prepared: 10/26/23 Analyzed: 10/27/23

C10-C28 (DRO)	508	50	mg/kg	500	14.7	98.7		70-130	1.76	20
Surrogate: <i>o</i> -Terphenyl	14.8		"	12.5		118		30-150		

Summit Scientific

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Eagle Environmental Consulting  
 8000 W 44th Ave  
 Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]  
 Project Manager: Andrew Newberry

**Reported:**  
 11/07/23 09:00

**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 BGJ1100 - EPA 5030 Soil MS**

**Blank (BGJ1100-BLK1)**

Prepared & Analyzed: 10/27/23

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	0.0301		"	0.0333		90.4	40-150			
Surrogate: Fluoranthene-d10	0.0282		"	0.0333		84.7	40-150			

**LCS (BGJ1100-BS1)**

Prepared & Analyzed: 10/27/23

Acenaphthene	0.0250	0.00500	mg/kg	0.0333		75.1	31-137			
Anthracene	0.0288	0.00500	"	0.0333		86.3	30-120			
Benzo (a) anthracene	0.0270	0.00500	"	0.0333		81.0	30-120			
Benzo (a) pyrene	0.0235	0.00500	"	0.0333		70.6	30-120			
Benzo (b) fluoranthene	0.0257	0.00500	"	0.0333		77.2	30-120			
Benzo (k) fluoranthene	0.0251	0.00500	"	0.0333		75.2	30-120			
Chrysene	0.0287	0.00500	"	0.0333		86.1	30-120			
Dibenz (a,h) anthracene	0.0233	0.00500	"	0.0333		70.0	30-120			
Fluoranthene	0.0280	0.00500	"	0.0333		84.1	30-120			
Fluorene	0.0245	0.00500	"	0.0333		73.5	30-120			
Indeno (1,2,3-cd) pyrene	0.0251	0.00500	"	0.0333		75.2	30-120			
Pyrene	0.0240	0.00500	"	0.0333		72.0	35-142			
1-Methylnaphthalene	0.0220	0.00500	"	0.0333		65.9	35-142			
2-Methylnaphthalene	0.0236	0.00500	"	0.0333		70.9	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0311		"	0.0333		93.2	40-150			
Surrogate: Fluoranthene-d10	0.0299		"	0.0333		89.7	40-150			

Summit Scientific

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Eagle Environmental Consulting  
 8000 W 44th Ave  
 Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]  
 Project Manager: Andrew Newberry

Reported:  
 11/07/23 09:00

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 BGJ1100 - EPA 5030 Soil MS

Matrix Spike (BGJ1100-MS1)	Source: 2310452-02			Prepared & Analyzed: 10/27/23						
Acenaphthene	0.0164	0.00500	mg/kg	0.0333	ND	49.1	31-137			
Anthracene	0.0148	0.00500	"	0.0333	ND	44.3	30-120			
Benzo (a) anthracene	0.0157	0.00500	"	0.0333	ND	47.1	30-120			
Benzo (a) pyrene	0.0157	0.00500	"	0.0333	ND	47.1	30-120			
Benzo (b) fluoranthene	0.0156	0.00500	"	0.0333	ND	46.7	30-120			
Benzo (k) fluoranthene	0.0165	0.00500	"	0.0333	ND	49.6	30-120			
Chrysene	0.0162	0.00500	"	0.0333	ND	48.7	30-120			
Dibenz (a,h) anthracene	0.0150	0.00500	"	0.0333	ND	45.1	30-120			
Fluoranthene	0.0135	0.00500	"	0.0333	ND	40.6	30-120			
Fluorene	0.0151	0.00500	"	0.0333	ND	45.3	30-120			
Indeno (1,2,3-cd) pyrene	0.0149	0.00500	"	0.0333	ND	44.8	30-120			
Pyrene	0.0168	0.00500	"	0.0333	ND	50.4	35-142			
1-Methylnaphthalene	0.0160	0.00500	"	0.0333	ND	48.1	15-130			
2-Methylnaphthalene	0.0176	0.00500	"	0.0333	ND	52.9	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0154		"	0.0333		46.1	40-150			
Surrogate: Fluoranthene-d10	0.0137		"	0.0333		41.0	40-150			

Matrix Spike Dup (BGJ1100-MSD1)	Source: 2310452-02			Prepared & Analyzed: 10/27/23						
Acenaphthene	0.0157	0.00500	mg/kg	0.0333	ND	47.0	31-137	4.29	30	
Anthracene	0.0138	0.00500	"	0.0333	ND	41.5	30-120	6.48	30	
Benzo (a) anthracene	0.0136	0.00500	"	0.0333	ND	40.7	30-120	14.7	30	
Benzo (a) pyrene	0.0149	0.00500	"	0.0333	ND	44.6	30-120	5.32	30	
Benzo (b) fluoranthene	0.0145	0.00500	"	0.0333	ND	43.5	30-120	7.20	30	
Benzo (k) fluoranthene	0.0152	0.00500	"	0.0333	ND	45.7	30-120	8.09	30	
Chrysene	0.0143	0.00500	"	0.0333	ND	43.0	30-120	12.5	30	
Dibenz (a,h) anthracene	0.0141	0.00500	"	0.0333	ND	42.3	30-120	6.34	30	
Fluoranthene	0.0139	0.00500	"	0.0333	ND	41.8	30-120	2.87	30	
Fluorene	0.0156	0.00500	"	0.0333	ND	46.7	30-120	3.10	30	
Indeno (1,2,3-cd) pyrene	0.0150	0.00500	"	0.0333	ND	45.0	30-120	0.499	30	
Pyrene	0.0152	0.00500	"	0.0333	ND	45.7	35-142	9.79	30	
1-Methylnaphthalene	0.0157	0.00500	"	0.0333	ND	47.2	15-130	1.91	50	
2-Methylnaphthalene	0.0185	0.00500	"	0.0333	ND	55.6	15-130	4.87	50	
Surrogate: 2-Methylnaphthalene-d10	0.0142		"	0.0333		42.6	40-150			
Surrogate: Fluoranthene-d10	0.0145		"	0.0333		43.5	40-150			

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Eagle Environmental Consulting  
 8000 W 44th Ave  
 Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]  
 Project Manager: Andrew Newberry

**Reported:**  
 11/07/23 09:00

**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 BGJ1114 - EPA 3050B**

**Blank (BGJ1114-BLK1)**

Prepared: 10/27/23 Analyzed: 11/01/23

Boron ND 2.00 mg/L

**LCS (BGJ1114-BS1)**

Prepared: 10/27/23 Analyzed: 11/01/23

Boron 4.72 2.00 mg/L 5.00 94.5 80-120

**Duplicate (BGJ1114-DUP1)**

**Source: 2310421-01**

Prepared: 10/27/23 Analyzed: 11/01/23

Boron 0.187 2.00 mg/L 0.217 14.6 20 J

**Matrix Spike (BGJ1114-MS1)**

**Source: 2310421-01**

Prepared: 10/27/23 Analyzed: 11/01/23

Boron 4.68 2.00 mg/L 5.00 0.217 89.2 75-125

**Matrix Spike Dup (BGJ1114-MSD1)**

**Source: 2310421-01**

Prepared: 10/27/23 Analyzed: 11/01/23

Boron 4.62 2.00 mg/L 5.00 0.217 88.0 75-125 1.34 25

Summit Scientific

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Eagle Environmental Consulting  
 8000 W 44th Ave  
 Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]  
 Project Manager: Andrew Newberry

**Reported:**  
 11/07/23 09:00

**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 BGJ1171 - EPA 3050B**

**Blank (BGJ1171-BLK1)**

Prepared: 10/30/23 Analyzed: 10/31/23

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	"							
Silver	ND	0.0200	"							
Zinc	ND	0.400	"							
Selenium	ND	0.260	"							

**LCS (BGJ1171-BS1)**

Prepared: 10/30/23 Analyzed: 10/31/23

Arsenic	36.5	0.200	mg/kg wet	40.0	91.3	80-120
Barium	39.1	0.400	"	40.0	97.8	80-120
Cadmium	1.93	0.200	"	2.00	96.5	80-120
Copper	43.4	0.400	"	40.0	108	80-120
Lead	19.4	0.200	"	20.0	97.2	80-120
Nickel	42.8	0.400	"	40.0	107	80-120
Silver	1.90	0.0200	"	2.00	95.0	80-120
Zinc	42.4	0.400	"	40.0	106	80-120
Selenium	4.05	0.260	"	4.00	101	80-120

**Duplicate (BGJ1171-DUP1)**

Source: 2310380-02

Prepared: 10/30/23 Analyzed: 10/31/23

Arsenic	3.61	0.200	mg/kg dry	3.94	8.81	20
Barium	74.0	0.400	"	78.1	5.43	20
Cadmium	0.207	0.200	"	0.204	1.03	20
Copper	6.58	0.400	"	6.37	3.24	20
Lead	33.5	0.200	"	41.0	20.1	20
Nickel	6.27	0.400	"	6.28	0.0842	20
Silver	0.0364	0.0200	"	0.0375	2.86	20
Zinc	31.0	0.400	"	31.3	0.778	20
Selenium	0.536	0.260	"	0.548	2.24	20

QR-04

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Eagle Environmental Consulting  
 8000 W 44th Ave  
 Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]  
 Project Manager: Andrew Newberry

**Reported:**  
 11/07/23 09:00

**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 BGJ1171 - EPA 3050B**

**Matrix Spike (BGJ1171-MS1)**

Source: 2310380-02

Prepared: 10/30/23 Analyzed: 10/31/23

Arsenic	46.1	0.200	mg/kg dry	52.8	3.94	79.9	75-125				
Barium	123	0.400	"	52.8	78.1	84.5	75-125				
Cadmium	2.56	0.200	"	2.64	0.204	89.3	75-125				
Copper	39.2	0.400	"	52.8	6.37	62.2	75-125				QM-07
Lead	96.5	0.200	"	26.4	41.0	210	75-125				QM-07
Nickel	39.4	0.400	"	52.8	6.28	62.7	75-125				QM-07
Silver	2.37	0.0200	"	2.64	0.0375	88.4	75-125				
Zinc	61.7	0.400	"	52.8	31.3	57.5	75-125				QM-07
Selenium	4.85	0.260	"	5.28	0.548	81.4	75-125				

**Matrix Spike Dup (BGJ1171-MSD1)**

Source: 2310380-02

Prepared: 10/30/23 Analyzed: 10/31/23

Arsenic	45.8	0.200	mg/kg dry	52.8	3.94	79.2	75-125	0.819	25		
Barium	116	0.400	"	52.8	78.1	72.0	75-125	5.53	25		QM-07
Cadmium	2.46	0.200	"	2.64	0.204	85.4	75-125	4.06	25		
Copper	38.9	0.400	"	52.8	6.37	61.6	75-125	0.836	25		QM-07
Lead	91.7	0.200	"	26.4	41.0	192	75-125	5.05	25		QM-07
Nickel	38.7	0.400	"	52.8	6.28	61.4	75-125	1.71	25		QM-07
Silver	2.27	0.0200	"	2.64	0.0375	84.4	75-125	4.58	25		
Zinc	61.4	0.400	"	52.8	31.3	57.1	75-125	0.366	25		QM-07
Selenium	4.47	0.260	"	5.28	0.548	74.3	75-125	8.00	25		QM-07

Summit Scientific

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Eagle Environmental Consulting  
 8000 W 44th Ave  
 Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]  
 Project Manager: Andrew Newberry

**Reported:**  
 11/07/23 09:00

**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 BGJ1117 - 3060A Mod**

**Blank (BGJ1117-BLK1)**

Prepared & Analyzed: 10/27/23

Chromium, Hexavalent      ND      0.30 mg/kg wet

**LCS (BGJ1117-BS1)**

Prepared & Analyzed: 10/27/23

Chromium, Hexavalent      24.4      0.30 mg/kg wet      25.0      97.6      80-120

**Duplicate (BGJ1117-DUP1)**

**Source: 2310450-01**

Prepared & Analyzed: 10/27/23

Chromium, Hexavalent      ND      0.30 mg/kg dry      ND      20

**Matrix Spike (BGJ1117-MS1)**

**Source: 2310450-01**

Prepared & Analyzed: 10/27/23

Chromium, Hexavalent      31.7      0.30 mg/kg dry      33.4      ND      95.0      75-125

**Matrix Spike Dup (BGJ1117-MSD1)**

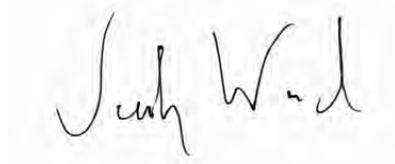
**Source: 2310450-01**

Prepared & Analyzed: 10/27/23

Chromium, Hexavalent      31.7      0.30 mg/kg dry      33.4      ND      95.0      75-125      0.00      20

Summit Scientific

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Eagle Environmental Consulting  
 8000 W 44th Ave  
 Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]  
 Project Manager: Andrew Newberry

**Reported:**  
 11/07/23 09:00

**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 BGJ1097 - General Preparation**

**Blank (BGJ1097-BLK1)**

Prepared: 10/26/23 Analyzed: 10/31/23

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

**LCS (BGJ1097-BS1)**

Prepared: 10/26/23 Analyzed: 10/31/23

Calcium	4.80	0.0500	mg/L wet	5.00	96.0	70-130				
Magnesium	5.40	0.0500	"	5.00	108	70-130				
Sodium	5.45	0.0500	"	5.00	109	70-130				

Summit Scientific

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Eagle Environmental Consulting  
 8000 W 44th Ave  
 Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]  
 Project Manager: Andrew Newberry

**Reported:**  
 11/07/23 09:00

**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 BGJ1136 - General Preparation**

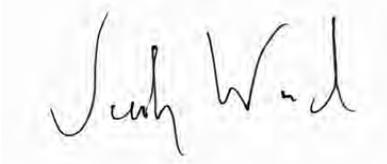
**Duplicate (BGJ1136-DUP1)**

**Source: 2310410-01**

**Prepared & Analyzed: 10/27/23**

% Solids	96.4		%		89.0			7.95	20	
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Summit Scientific



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Eagle Environmental Consulting  
 8000 W 44th Ave  
 Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]  
 Project Manager: Andrew Newberry

**Reported:**  
 11/07/23 09:00

**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 BGJ1099 - General Preparation**

**Blank (BGJ1099-BLK1)**

Prepared: 10/27/23 Analyzed: 10/30/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BGJ1099-BS1)**

Prepared: 10/27/23 Analyzed: 10/30/23

Specific Conductance (EC) 0.151 0.0100 mmhos/cm 0.150 100 95-105

**Duplicate (BGJ1099-DUP1)**

**Source: 2310424-01**

Prepared: 10/27/23 Analyzed: 10/30/23

Specific Conductance (EC) 0.272 0.0100 mmhos/cm 0.272 0.00 20

Summit Scientific

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Eagle Environmental Consulting  
 8000 W 44th Ave  
 Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]  
 Project Manager: Andrew Newberry

**Reported:**  
 11/07/23 09:00

**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 BGJ1101 - General Preparation**

**LCS (BGJ1101-BS1)**

Prepared: 10/27/23 Analyzed: 10/30/23

pH	9.05	pH Units	9.18	98.6	95-105
----	------	----------	------	------	--------

**Duplicate (BGJ1101-DUP1)**

Source: 2310424-01

Prepared: 10/27/23 Analyzed: 10/30/23

pH	8.12	pH Units	8.12	0.00	20
----	------	----------	------	------	----

Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]  
Project Manager: Andrew Newberry

**Reported:**  
11/07/23 09:00

### 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.
- 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.
- J Detected but below the Reporting Limit; therefore, result is an estimated concentration
- 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 80401

303.277.9310

November 07, 2023

Andrew Newberry

Eagle Environmental Consulting

8000 W 44th Ave

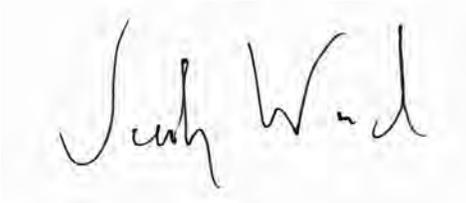
Wheat Ridge, CO 80033

RE: Civitas - Sam 25H-M166

Work Order # 2310518

Enclosed are the results of analyses for samples received by Summit Scientific on 10/26/23 17:34. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Jacob Wood For Paul Shrewsbury

President



Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]  
Project Manager: Andrew Newberry

**Reported:**  
11/07/23 09:08

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
HA-SS-15@15'	2310518-01	Soil	10/26/23 16:30	10/26/23 17:34
HA-SS-16@15'	2310518-02	Soil	10/26/23 15:30	10/26/23 17:34

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 / of /
2310518	

Send Data To:		Send Invoice To:	
Client: <i>Eagle Env. Consulting</i>	Project Manager: <i>A. Newberry</i>	Company: <i>Civiks</i>	
Address: <i>2000 W. 44th Ave</i>	E-Mail: <i>anewberry@eagle-enviro.com</i>	Project Name/Location:	
City/State/Zip: <i>Wheat Ridge, CO 80033</i>		AFE#:	
Phone: <i>(303) 433-0479</i>	Project Name: <i>San 25H - M166</i>	PO/Billing Codes:	
Sampler Name: <i>TC/BU</i>	Project Number: <i>-</i>	Contact: <i>Cosin</i>	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested						Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	G, BTEX, Nap, THMs -2000	Dro/200 -2015	PHS -8270 D SIM	EC - 9004 SAR - 208	PH - 9045 -791000	Table 95 Metals -60208		Cr VI -719004
1	HA-SS-15 e 15'	10-26-23	11:30	2			X			X			X	X	X	X	X	X		EC/SAR/PH - Set Peak Prog
2	HA-SS-16 e 15'	↓	15:30	2			X			X			X	X	X	X	X	X		
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				

Relinquished by: <i>Trevor Copple</i>	Date/Time: <i>10-26-23 17:30</i>	Received by: <i>Vah Wal</i>	Date/Time: <i>10-26-23 17:54</i>	TAT Business Days	Field DO	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day <input checked="" type="checkbox"/>	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: <i>3.0</i>	Corrected Temperature	IR gun #: <i>2</i>	HNO3 lot #:			

# S<sub>2</sub>

## Sample Receipt Checklist

S2 Work Order# 2310518Client: Eagle Environmental Consulting Client Project ID: SAM 25H-M166Shipped 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ON ICE
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"/>	SAMEDAY
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.

Josh

Custodian Printed Name

10-26-23 1734

Date/Time



Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]  
Project Manager: Andrew Newberry

**Reported:**  
11/07/23 09:08

**HA-SS-15@15'**  
**2310518-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/26/23 16:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGJ1092	10/26/23	10/26/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>0.035</b>	<b>0.50</b>		"	"	"	"	"	"	J

Date Sampled: **10/26/23 16:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		75.3 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		86.6 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88.9 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/26/23 16:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>C10-C28 (DRO)</b>	<b>16</b>	50	4.3	mg/kg	1	BGJ1093	10/26/23	10/26/23	EPA 8015M	J
<b>C28-C36 (ORO)</b>	<b>5.7</b>	50	4.3	"	"	"	"	"	"	J

Date Sampled: **10/26/23 16:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		51.9 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]  
Project Manager: Andrew Newberry

**Reported:**  
11/07/23 09:08

**HA-SS-15@15'**  
**2310518-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/26/23 16:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGJ1100	10/27/23	10/28/23	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	"
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.00500	0.00167	"	"	"	"	"	"	"
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	"
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.00500	0.00118	"	"	"	"	"	"	"
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	"
1-Methylnaphthalene	ND	0.00500	0.00185	"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.00500	0.00189	"	"	"	"	"	"	"

Date Sampled: **10/26/23 16:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		60.3 %		40-150		"	"	"	"	"
Surrogate: Fluoranthene-d10		53.8 %		40-150		"	"	"	"	"

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

Date Sampled: **10/26/23 16:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Boron</b>	<b>0.0542</b>	2.00	0.00690	mg/L	1	BGJ1114	10/27/23	11/01/23	EPA 6020B	J

**Total Metals by EPA 6020B**

Date Sampled: **10/26/23 16:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							

Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]  
Project Manager: Andrew Newberry

**Reported:**  
11/07/23 09:08

**HA-SS-15@15'**  
**2310518-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.45	0.200	0.168	mg/kg dry	1	BGJ1244	10/31/23	11/02/23	EPA 6020B	
Barium	36.0	0.400	0.316	"	"	"	"	"	"	
Cadmium	0.0430	0.200	0.00720	"	"	"	"	"	"	J
Copper	1.60	0.400	0.0209	"	"	"	"	"	"	
Lead	4.46	0.200	0.0550	"	"	"	"	"	"	
Nickel	3.69	0.400	0.0610	"	"	"	"	"	"	
Silver	0.00300	0.0200	0.00267	"	"	"	"	"	"	J
Zinc	17.1	0.400	0.266	"	"	"	"	"	"	
Selenium	ND	0.260	0.175	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 10/26/23 16:30

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	0.040	mg/kg dry	1	BGJ1117	10/27/23	10/27/23	EPA 7196A	

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

Date Sampled: 10/26/23 16:30

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	64.9	0.0500		mg/L dry	1	BGJ1097	10/26/23	10/31/23	EPA 6020B	
Magnesium	45.6	0.0500		"	"	"	"	"	"	
Sodium	72.2	0.0500		"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: 10/26/23 16:30

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.68	0.00100		units	1	BGJ1245	10/31/23	10/31/23	Calculation	

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

Summit Scientific

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Eagle Environmental Consulting  
 8000 W 44th Ave  
 Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]  
 Project Manager: Andrew Newberry

**Reported:**  
 11/07/23 09:08

**HA-SS-15@15'**  
**2310518-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/26/23 16:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	79.9			%	1	BGJ1116	10/27/23	10/27/23	Calculation	

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

Date Sampled: **10/26/23 16:30**

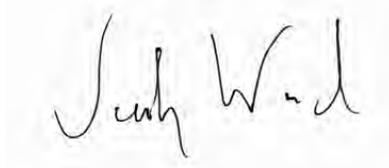
Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.841	0.0100	0.00100	mmhos/cm	1	BGJ1099	10/27/23	10/30/23	EPA 120.1	

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

Date Sampled: **10/26/23 16:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	8.03			pH Units	1	BGJ1101	10/27/23	10/30/23	EPA 9045D	

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]  
Project Manager: Andrew Newberry

**Reported:**  
11/07/23 09:08

**HA-SS-16@15'**  
**2310518-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/26/23 15:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGJ1092	10/26/23	10/26/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>0.039</b>	0.50		"	"	"	"	"	"	J

Date Sampled: **10/26/23 15:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		75.8 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		83.1 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		84.8 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/26/23 15:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>C10-C28 (DRO)</b>	<b>14</b>	50	4.3	mg/kg	1	BGJ1093	10/26/23	10/26/23	EPA 8015M	J
<b>C28-C36 (ORO)</b>	<b>5.9</b>	50	4.3	"	"	"	"	"	"	J

Date Sampled: **10/26/23 15:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		56.5 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]  
Project Manager: Andrew Newberry

**Reported:**  
11/07/23 09:08

**HA-SS-16@15'**  
**2310518-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/26/23 15:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGJ1100	10/27/23	10/28/23	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	"
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.00500	0.00167	"	"	"	"	"	"	"
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	"
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.00500	0.00118	"	"	"	"	"	"	"
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	"
1-Methylnaphthalene	ND	0.00500	0.00185	"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.00500	0.00189	"	"	"	"	"	"	"

Date Sampled: **10/26/23 15:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		65.5 %		40-150		"	"	"	"	"
Surrogate: Fluoranthene-d10		58.9 %		40-150		"	"	"	"	"

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

Date Sampled: **10/26/23 15:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Boron</b>	<b>0.0333</b>	2.00	0.00690	mg/L	1	BGJ1114	10/27/23	11/01/23	EPA 6020B	J

**Total Metals by EPA 6020B**

Date Sampled: **10/26/23 15:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]  
Project Manager: Andrew Newberry

**Reported:**  
11/07/23 09:08

**HA-SS-16@15'**  
**2310518-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.05	0.200	0.168	mg/kg dry	1	BGJ1244	10/31/23	11/02/23	EPA 6020B	
Barium	57.4	0.400	0.316	"	"	"	"	"	"	
Cadmium	0.0624	0.200	0.00720	"	"	"	"	"	"	J
Copper	2.12	0.400	0.0209	"	"	"	"	"	"	
Lead	6.12	0.200	0.0550	"	"	"	"	"	"	
Nickel	5.42	0.400	0.0610	"	"	"	"	"	"	
Silver	0.00406	0.0200	0.00267	"	"	"	"	"	"	J
Zinc	22.2	0.400	0.266	"	"	"	"	"	"	
Selenium	ND	0.260	0.175	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 10/26/23 15:30

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	0.040	mg/kg dry	1	BGJ1117	10/27/23	10/27/23	EPA 7196A	

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

Date Sampled: 10/26/23 15:30

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	55.0	0.0500		mg/L dry	1	BGJ1097	10/26/23	10/31/23	EPA 6020B	
Magnesium	37.5	0.0500		"	"	"	"	"	"	
Sodium	62.2	0.0500		"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: 10/26/23 15:30

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.58	0.00100		units	1	BGJ1245	10/31/23	10/31/23	Calculation	

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

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Project: Civitas - Sam 25H-M166

Project Number: [none]  
 Project Manager: Andrew Newberry

**Reported:**  
 11/07/23 09:08

**HA-SS-16@15'**  
**2310518-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/26/23 15:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	78.8			%	1	BGJ1116	10/27/23	10/27/23	Calculation	

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

Date Sampled: **10/26/23 15:30**

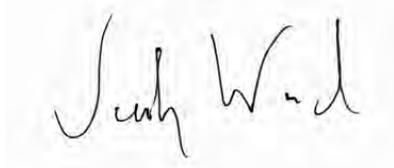
Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.751	0.0100	0.00100	mmhos/cm	1	BGJ1099	10/27/23	10/30/23	EPA 120.1	

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

Date Sampled: **10/26/23 15:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	8.14			pH Units	1	BGJ1101	10/27/23	10/30/23	EPA 9045D	

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Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]  
Project Manager: Andrew Newberry

Reported:  
11/07/23 09:08

### 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 BGJ1092 - EPA 5030 Soil MS

##### Blank (BGJ1092-BLK1)

Prepared: 10/26/23 Analyzed: 10/27/23

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	0.0282		"	0.0400		70.4	50-150			
Surrogate: Toluene-d8	0.0331		"	0.0400		82.8	50-150			
Surrogate: 4-Bromofluorobenzene	0.0335		"	0.0400		83.8	50-150			

##### LCS (BGJ1092-BS1)

Prepared: 10/26/23 Analyzed: 10/27/23

Benzene	0.102	0.0020	mg/kg	0.100		102	70-130			
Toluene	0.0837	0.0050	"	0.100		83.7	70-130			
Ethylbenzene	0.0910	0.0050	"	0.100		91.0	70-130			
m,p-Xylene	0.189	0.010	"	0.200		94.4	70-130			
o-Xylene	0.0919	0.0050	"	0.100		91.9	70-130			
1,2,4-Trimethylbenzene	0.0920	0.0050	"	0.100		92.0	70-130			
1,3,5-Trimethylbenzene	0.0929	0.0050	"	0.100		92.9	70-130			
Naphthalene	0.0902	0.0038	"	0.100		90.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0281		"	0.0400		70.4	50-150			
Surrogate: Toluene-d8	0.0339		"	0.0400		84.8	50-150			
Surrogate: 4-Bromofluorobenzene	0.0346		"	0.0400		86.6	50-150			

##### Matrix Spike (BGJ1092-MS1)

Source: 2310452-02

Prepared: 10/26/23 Analyzed: 10/27/23

Benzene	0.0916	0.0020	mg/kg	0.100	ND	91.6	70-130			
Toluene	0.0718	0.0050	"	0.100	ND	71.8	70-130			
Ethylbenzene	0.0800	0.0050	"	0.100	ND	80.0	70-130			
m,p-Xylene	0.166	0.010	"	0.200	ND	83.0	70-130			
o-Xylene	0.0816	0.0050	"	0.100	ND	81.6	70-130			
1,2,4-Trimethylbenzene	0.0831	0.0050	"	0.100	ND	83.1	70-130			
1,3,5-Trimethylbenzene	0.0812	0.0050	"	0.100	ND	81.2	70-130			
Naphthalene	0.0957	0.0038	"	0.100	ND	95.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0307		"	0.0400		76.8	50-150			
Surrogate: Toluene-d8	0.0333		"	0.0400		83.3	50-150			
Surrogate: 4-Bromofluorobenzene	0.0350		"	0.0400		87.6	50-150			

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 Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]  
 Project Manager: Andrew Newberry

**Reported:**  
 11/07/23 09:08

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

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

**Batch BGJ1092 - EPA 5030 Soil MS**

Matrix Spike Dup (BGJ1092-MSD1)	Source: 2310452-02			Prepared: 10/26/23 Analyzed: 10/27/23					
Benzene	0.0863	0.0020	mg/kg	0.100	ND	86.3	70-130	5.94	30
Toluene	0.0713	0.0050	"	0.100	ND	71.3	70-130	0.629	30
Ethylbenzene	0.0756	0.0050	"	0.100	ND	75.6	70-130	5.67	30
m,p-Xylene	0.157	0.010	"	0.200	ND	78.4	70-130	5.65	30
o-Xylene	0.0775	0.0050	"	0.100	ND	77.5	70-130	5.13	30
1,2,4-Trimethylbenzene	0.0783	0.0050	"	0.100	ND	78.3	70-130	5.98	30
1,3,5-Trimethylbenzene	0.0769	0.0050	"	0.100	ND	76.9	70-130	5.35	30
Naphthalene	0.0955	0.0038	"	0.100	ND	95.5	70-130	0.251	30
Surrogate: 1,2-Dichloroethane-d4	0.0294		"	0.0400		73.5	50-150		
Surrogate: Toluene-d8	0.0344		"	0.0400		85.9	50-150		
Surrogate: 4-Bromofluorobenzene	0.0350		"	0.0400		87.5	50-150		

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 Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]  
 Project Manager: Andrew Newberry

**Reported:**  
 11/07/23 09:08

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

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

**Batch BGJ1093 - EPA 3550A**

**Blank (BGJ1093-BLK1)**

Prepared & Analyzed: 10/26/23

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: <i>o</i> -Terphenyl	18.1		"	12.5		145	30-150			

**LCS (BGJ1093-BS1)**

Prepared: 10/26/23 Analyzed: 10/27/23

C10-C28 (DRO)	530	50	mg/kg	500		106	70-130			
Surrogate: <i>o</i> -Terphenyl	12.7		"	12.5		102	30-150			

**Matrix Spike (BGJ1093-MS1)**

Source: 2310452-02

Prepared: 10/26/23 Analyzed: 10/27/23

C10-C28 (DRO)	499	50	mg/kg	500	14.7	96.9	70-130			
Surrogate: <i>o</i> -Terphenyl	13.4		"	12.5		108	30-150			

**Matrix Spike Dup (BGJ1093-MSD1)**

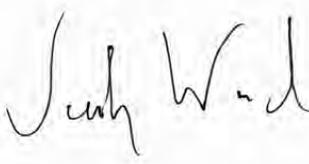
Source: 2310452-02

Prepared: 10/26/23 Analyzed: 10/27/23

C10-C28 (DRO)	508	50	mg/kg	500	14.7	98.7	70-130	1.76	20	
Surrogate: <i>o</i> -Terphenyl	14.8		"	12.5		118	30-150			

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Project: Civitas - Sam 25H-M166

Project Number: [none]  
 Project Manager: Andrew Newberry

**Reported:**  
 11/07/23 09:08

**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 BGJ1100 - EPA 5030 Soil MS**

**Blank (BGJ1100-BLK1)**

Prepared & Analyzed: 10/27/23

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	0.0301		"	0.0333	90.4	40-150				
Surrogate: Fluoranthene-d10	0.0282		"	0.0333	84.7	40-150				

**LCS (BGJ1100-BS1)**

Prepared & Analyzed: 10/27/23

Acenaphthene	0.0250	0.00500	mg/kg	0.0333	75.1	31-137				
Anthracene	0.0288	0.00500	"	0.0333	86.3	30-120				
Benzo (a) anthracene	0.0270	0.00500	"	0.0333	81.0	30-120				
Benzo (a) pyrene	0.0235	0.00500	"	0.0333	70.6	30-120				
Benzo (b) fluoranthene	0.0257	0.00500	"	0.0333	77.2	30-120				
Benzo (k) fluoranthene	0.0251	0.00500	"	0.0333	75.2	30-120				
Chrysene	0.0287	0.00500	"	0.0333	86.1	30-120				
Dibenz (a,h) anthracene	0.0233	0.00500	"	0.0333	70.0	30-120				
Fluoranthene	0.0280	0.00500	"	0.0333	84.1	30-120				
Fluorene	0.0245	0.00500	"	0.0333	73.5	30-120				
Indeno (1,2,3-cd) pyrene	0.0251	0.00500	"	0.0333	75.2	30-120				
Pyrene	0.0240	0.00500	"	0.0333	72.0	35-142				
1-Methylnaphthalene	0.0220	0.00500	"	0.0333	65.9	35-142				
2-Methylnaphthalene	0.0236	0.00500	"	0.0333	70.9	35-142				
Surrogate: 2-Methylnaphthalene-d10	0.0311		"	0.0333	93.2	40-150				
Surrogate: Fluoranthene-d10	0.0299		"	0.0333	89.7	40-150				

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Project: Civitas - Sam 25H-M166

Project Number: [none]  
Project Manager: Andrew Newberry

Reported:  
11/07/23 09:08

**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 BGJ1100 - EPA 5030 Soil MS**

<b>Matrix Spike (BGJ1100-MS1)</b>		<b>Source: 2310452-02</b>			<b>Prepared &amp; Analyzed: 10/27/23</b>						
Acenaphthene	0.0164	0.00500	mg/kg	0.0333	ND	49.1	31-137				
Anthracene	0.0148	0.00500	"	0.0333	ND	44.3	30-120				
Benzo (a) anthracene	0.0157	0.00500	"	0.0333	ND	47.1	30-120				
Benzo (a) pyrene	0.0157	0.00500	"	0.0333	ND	47.1	30-120				
Benzo (b) fluoranthene	0.0156	0.00500	"	0.0333	ND	46.7	30-120				
Benzo (k) fluoranthene	0.0165	0.00500	"	0.0333	ND	49.6	30-120				
Chrysene	0.0162	0.00500	"	0.0333	ND	48.7	30-120				
Dibenz (a,h) anthracene	0.0150	0.00500	"	0.0333	ND	45.1	30-120				
Fluoranthene	0.0135	0.00500	"	0.0333	ND	40.6	30-120				
Fluorene	0.0151	0.00500	"	0.0333	ND	45.3	30-120				
Indeno (1,2,3-cd) pyrene	0.0149	0.00500	"	0.0333	ND	44.8	30-120				
Pyrene	0.0168	0.00500	"	0.0333	ND	50.4	35-142				
1-Methylnaphthalene	0.0160	0.00500	"	0.0333	ND	48.1	15-130				
2-Methylnaphthalene	0.0176	0.00500	"	0.0333	ND	52.9	15-130				
Surrogate: 2-Methylnaphthalene-d10	0.0154		"	0.0333		46.1	40-150				
Surrogate: Fluoranthene-d10	0.0137		"	0.0333		41.0	40-150				

<b>Matrix Spike Dup (BGJ1100-MSD1)</b>		<b>Source: 2310452-02</b>			<b>Prepared &amp; Analyzed: 10/27/23</b>						
Acenaphthene	0.0157	0.00500	mg/kg	0.0333	ND	47.0	31-137	4.29	30		
Anthracene	0.0138	0.00500	"	0.0333	ND	41.5	30-120	6.48	30		
Benzo (a) anthracene	0.0136	0.00500	"	0.0333	ND	40.7	30-120	14.7	30		
Benzo (a) pyrene	0.0149	0.00500	"	0.0333	ND	44.6	30-120	5.32	30		
Benzo (b) fluoranthene	0.0145	0.00500	"	0.0333	ND	43.5	30-120	7.20	30		
Benzo (k) fluoranthene	0.0152	0.00500	"	0.0333	ND	45.7	30-120	8.09	30		
Chrysene	0.0143	0.00500	"	0.0333	ND	43.0	30-120	12.5	30		
Dibenz (a,h) anthracene	0.0141	0.00500	"	0.0333	ND	42.3	30-120	6.34	30		
Fluoranthene	0.0139	0.00500	"	0.0333	ND	41.8	30-120	2.87	30		
Fluorene	0.0156	0.00500	"	0.0333	ND	46.7	30-120	3.10	30		
Indeno (1,2,3-cd) pyrene	0.0150	0.00500	"	0.0333	ND	45.0	30-120	0.499	30		
Pyrene	0.0152	0.00500	"	0.0333	ND	45.7	35-142	9.79	30		
1-Methylnaphthalene	0.0157	0.00500	"	0.0333	ND	47.2	15-130	1.91	50		
2-Methylnaphthalene	0.0185	0.00500	"	0.0333	ND	55.6	15-130	4.87	50		
Surrogate: 2-Methylnaphthalene-d10	0.0142		"	0.0333		42.6	40-150				
Surrogate: Fluoranthene-d10	0.0145		"	0.0333		43.5	40-150				

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Eagle Environmental Consulting  
 8000 W 44th Ave  
 Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]  
 Project Manager: Andrew Newberry

**Reported:**  
 11/07/23 09:08

**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 BGJ1114 - EPA 3050B**

**Blank (BGJ1114-BLK1)**

Prepared: 10/27/23 Analyzed: 11/01/23

Boron ND 2.00 mg/L

**LCS (BGJ1114-BS1)**

Prepared: 10/27/23 Analyzed: 11/01/23

Boron 4.72 2.00 mg/L 5.00 94.5 80-120

**Duplicate (BGJ1114-DUP1)**

**Source: 2310421-01**

Prepared: 10/27/23 Analyzed: 11/01/23

Boron 0.187 2.00 mg/L 0.217 14.6 20 J

**Matrix Spike (BGJ1114-MS1)**

**Source: 2310421-01**

Prepared: 10/27/23 Analyzed: 11/01/23

Boron 4.68 2.00 mg/L 5.00 0.217 89.2 75-125

**Matrix Spike Dup (BGJ1114-MSD1)**

**Source: 2310421-01**

Prepared: 10/27/23 Analyzed: 11/01/23

Boron 4.62 2.00 mg/L 5.00 0.217 88.0 75-125 1.34 25

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Eagle Environmental Consulting  
 8000 W 44th Ave  
 Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]  
 Project Manager: Andrew Newberry

**Reported:**  
 11/07/23 09:08

**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 BGJ1244 - EPA 3050B**

**Blank (BGJ1244-BLK1)**

Prepared: 10/31/23 Analyzed: 11/02/23

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	"							
Silver	ND	0.0200	"							
Zinc	ND	0.400	"							
Selenium	ND	0.260	"							

**LCS (BGJ1244-BS1)**

Prepared: 10/31/23 Analyzed: 11/02/23

Arsenic	34.6	0.200	mg/kg wet	40.0	86.4	80-120
Barium	38.1	0.400	"	40.0	95.3	80-120
Cadmium	1.84	0.200	"	2.00	92.1	80-120
Copper	39.3	0.400	"	40.0	98.2	80-120
Lead	18.5	0.200	"	20.0	92.7	80-120
Nickel	39.4	0.400	"	40.0	98.4	80-120
Silver	1.79	0.0200	"	2.00	89.7	80-120
Zinc	39.7	0.400	"	40.0	99.2	80-120
Selenium	4.64	0.260	"	4.00	116	80-120

**Duplicate (BGJ1244-DUP1)**

Source: 2310449-21

Prepared: 10/31/23 Analyzed: 11/02/23

Arsenic	3.29	0.200	mg/kg dry	2.44	29.5	20	QR-04
Barium	151	0.400	"	106	34.8	20	QR-04
Cadmium	0.241	0.200	"	0.172	33.2	20	QR-01
Copper	7.45	0.400	"	6.41	14.9	20	
Lead	10.0	0.200	"	7.58	28.0	20	QR-04
Nickel	6.33	0.400	"	5.03	23.0	20	QR-04
Silver	0.0418	0.0200	"	0.0324	25.4	20	QR-01
Zinc	25.9	0.400	"	20.7	22.2	20	QR-04
Selenium	ND	0.260	"	ND		20	

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Eagle Environmental Consulting  
 8000 W 44th Ave  
 Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]  
 Project Manager: Andrew Newberry

**Reported:**  
 11/07/23 09:08

**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 BGJ1244 - EPA 3050B**

**Matrix Spike (BGJ1244-MS1)**

Source: 2310449-21

Prepared: 10/31/23 Analyzed: 11/02/23

Arsenic	39.5	0.200	mg/kg dry	52.3	2.44	70.9	75-125				QM-07
Barium	156	0.400	"	52.3	106	94.7	75-125				
Cadmium	2.19	0.200	"	2.61	0.172	77.0	75-125				
Copper	33.7	0.400	"	52.3	6.41	52.3	75-125				QM-07
Lead	28.4	0.200	"	26.1	7.58	79.6	75-125				
Nickel	32.6	0.400	"	52.3	5.03	52.7	75-125				QM-07
Silver	1.96	0.0200	"	2.61	0.0324	73.6	75-125				QM-07
Zinc	51.5	0.400	"	52.3	20.7	58.9	75-125				QM-07
Selenium	4.35	0.260	"	5.23	ND	83.2	75-125				

**Matrix Spike Dup (BGJ1244-MSD1)**

Source: 2310449-21

Prepared: 10/31/23 Analyzed: 11/02/23

Arsenic	39.5	0.200	mg/kg dry	52.3	2.44	70.8	75-125	0.0781	25		QM-07
Barium	156	0.400	"	52.3	106	95.4	75-125	0.238	25		
Cadmium	2.21	0.200	"	2.61	0.172	77.8	75-125	0.952	25		
Copper	33.0	0.400	"	52.3	6.41	50.8	75-125	2.35	25		QM-07
Lead	28.6	0.200	"	26.1	7.58	80.2	75-125	0.582	25		
Nickel	31.7	0.400	"	52.3	5.03	50.9	75-125	2.89	25		QM-07
Silver	1.95	0.0200	"	2.61	0.0324	73.4	75-125	0.214	25		QM-07
Zinc	50.5	0.400	"	52.3	20.7	56.9	75-125	2.06	25		QM-07
Selenium	4.14	0.260	"	5.23	ND	79.2	75-125	4.96	25		

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Eagle Environmental Consulting  
 8000 W 44th Ave  
 Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]  
 Project Manager: Andrew Newberry

**Reported:**  
 11/07/23 09:08

**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 BGJ1117 - 3060A Mod**

**Blank (BGJ1117-BLK1)**

Prepared & Analyzed: 10/27/23

Chromium, Hexavalent      ND      0.30    mg/kg wet

**LCS (BGJ1117-BS1)**

Prepared & Analyzed: 10/27/23

Chromium, Hexavalent      24.4      0.30    mg/kg wet      25.0      97.6      80-120

**Duplicate (BGJ1117-DUP1)**

**Source: 2310450-01**

Prepared & Analyzed: 10/27/23

Chromium, Hexavalent      ND      0.30    mg/kg dry      ND      20

**Matrix Spike (BGJ1117-MS1)**

**Source: 2310450-01**

Prepared & Analyzed: 10/27/23

Chromium, Hexavalent      31.7      0.30    mg/kg dry      33.4      ND      95.0      75-125

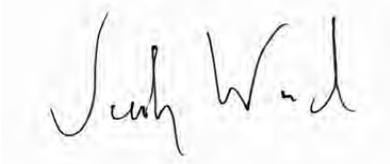
**Matrix Spike Dup (BGJ1117-MSD1)**

**Source: 2310450-01**

Prepared & Analyzed: 10/27/23

Chromium, Hexavalent      31.7      0.30    mg/kg dry      33.4      ND      95.0      75-125      0.00      20

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Eagle Environmental Consulting  
 8000 W 44th Ave  
 Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]  
 Project Manager: Andrew Newberry

**Reported:**  
 11/07/23 09:08

**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 BGJ1097 - General Preparation**

**Blank (BGJ1097-BLK1)**

Prepared: 10/26/23 Analyzed: 10/31/23

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

**LCS (BGJ1097-BS1)**

Prepared: 10/26/23 Analyzed: 10/31/23

Calcium	4.80	0.0500	mg/L wet	5.00		96.0	70-130			
Magnesium	5.40	0.0500	"	5.00		108	70-130			
Sodium	5.45	0.0500	"	5.00		109	70-130			

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Eagle Environmental Consulting  
 8000 W 44th Ave  
 Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]  
 Project Manager: Andrew Newberry

**Reported:**  
 11/07/23 09:08

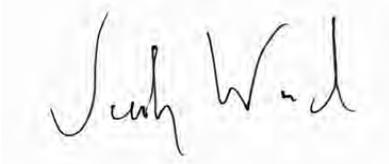
**Physical Parameters by APHA/ASTM/EPA Methods - Quality Control**  
**Summit Scientific**

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

**Batch BGJ1116 - General Preparation**

<b>Duplicate (BGJ1116-DUP1)</b>		<b>Source: 2310499-01</b>			<b>Prepared &amp; Analyzed: 10/27/23</b>			
% Solids	94.5		%		94.5		0.0308	20

Summit Scientific



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Eagle Environmental Consulting  
 8000 W 44th Ave  
 Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]  
 Project Manager: Andrew Newberry

**Reported:**  
 11/07/23 09:08

**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 BGJ1099 - General Preparation**

**Blank (BGJ1099-BLK1)**

Prepared: 10/27/23 Analyzed: 10/30/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BGJ1099-BS1)**

Prepared: 10/27/23 Analyzed: 10/30/23

Specific Conductance (EC) 0.151 0.0100 mmhos/cm 0.150 100 95-105

**Duplicate (BGJ1099-DUP1)**

**Source: 2310424-01**

Prepared: 10/27/23 Analyzed: 10/30/23

Specific Conductance (EC) 0.272 0.0100 mmhos/cm 0.272 0.00 20

Summit Scientific

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Eagle Environmental Consulting  
 8000 W 44th Ave  
 Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]  
 Project Manager: Andrew Newberry

**Reported:**  
 11/07/23 09:08

**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 BGJ1101 - General Preparation**

**LCS (BGJ1101-BS1)**

Prepared: 10/27/23 Analyzed: 10/30/23

pH	9.05	pH Units	9.18	98.6	95-105
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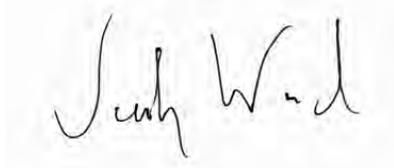
**Duplicate (BGJ1101-DUP1)**

Source: 2310424-01

Prepared: 10/27/23 Analyzed: 10/30/23

pH	8.12	pH Units	8.12	0.00	20
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Summit Scientific



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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]  
Project Manager: Andrew Newberry

**Reported:**  
11/07/23 09:08

### 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.
- J Detected but below the Reporting Limit; therefore, result is an estimated concentration
- 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