

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

November 27, 2023

Tanna Lyon

Ensolum, LLC

11049 W. 44th Ave, Ste 100

Wheat Ridge, CO 80033

RE: Civitas - Blue 3-65 33-32-31

Work Order #2311348

Enclosed are the results of analyses for samples received by Summit Scientific on 11/16/23 16:25. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Jacob Wood For Paul Shrewsbury

President



Ensolum, LLC  
11049 W. 44th Ave, Ste 100  
Wheat Ridge CO, 80033

Project: Civitas - Blue 3-65 33-32-31

Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01@0.5'	2311348-01	Soil	11/16/23 00:00	11/16/23 16:25
SS02@0.5'	2311348-02	Soil	11/16/23 00:00	11/16/23 16:25
SS03@0.5'	2311348-03	Soil	11/16/23 00:00	11/16/23 16:25
SS04@0.5'	2311348-04	Soil	11/16/23 00:00	11/16/23 16:25
SS05@0.5'	2311348-05	Soil	11/16/23 00:00	11/16/23 16:25
SS06@0.5'	2311348-06	Soil	11/16/23 00:00	11/16/23 16:25
SS07@0.5'	2311348-07	Soil	11/16/23 00:00	11/16/23 16:25
SS08@0.5'	2311348-08	Soil	11/16/23 00:00	11/16/23 16:25
SS09@0.5'	2311348-09	Soil	11/16/23 00:00	11/16/23 16:25
SS10@0.5'	2311348-10	Soil	11/16/23 00:00	11/16/23 16:25
SS11@0.5'	2311348-11	Soil	11/16/23 00:00	11/16/23 16:25
SS12@0.5'	2311348-12	Soil	11/16/23 00:00	11/16/23 16:25
SS13@0.5'	2311348-13	Soil	11/16/23 00:00	11/16/23 16:25
SS14@0.5'	2311348-14	Soil	11/16/23 00:00	11/16/23 16:25
SS15@0.5'	2311348-15	Soil	11/16/23 00:00	11/16/23 16:25
SS16@0.5'	2311348-16	Soil	11/16/23 00:00	11/16/23 16:25
SS17@0.5'	2311348-17	Soil	11/16/23 00:00	11/16/23 16:25
SS18@0.5'	2311348-18	Soil	11/16/23 00:00	11/16/23 16:25
SS19@0.5'	2311348-19	Soil	11/16/23 00:00	11/16/23 16:25
SS20@0.5'	2311348-20	Soil	11/16/23 00:00	11/16/23 16:25

Summit Scientific

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# SUMMIT SCIENTIFIC

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

Lab ID	Page 1 of 2
2311348-1	

Client: <u>Gensolum</u>	Send Data To: Project Manager: <u>Tanna Lyon</u>	Send Invoice To: Company: <u>Civitas Resources</u>
Address: <u>11049 W. 44th Ave Ste 160</u>	E-Mail: <u>tlion@gensolum.com / bsulzberger@-</u>	Project Name/Location: <u>Blue 3-65 33-32-31</u>
City/State/Zip: <u>Wheat Ridge, CO, 80033</u>	<u>gensolum.com / cmcqueen@civitasresources.com</u>	AFE#: <u>P1671 PD</u>
Phone: <u>720-363-6416</u>	Project Name: <u>Blue 3-65 33-32-31</u>	PO/Billing Codes: <u>M/M: 8520-162</u>
Sampler Name: <u>Max Bully</u>	Project Number: <u>09C2407007</u>	Contact: <u>Cosin McQueen</u>

				Preservative				Matrix				Analysis Requested				Special Instructions			
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	Full Table 915-1						
1	SS01 @ 0.5'	11/16/23		3			X			X			X						
2	SS02 @ 0.5'																		
3	SS03 @ 0.5'																		
4	SS04 @ 0.5'																		
5	SS05 @ 0.5'																		
6	SS06 @ 0.5'																		
7	SS07 @ 0.5'																		
8	SS08 @ 0.5'																		
9	SS09 @ 0.5'																		
10	SS10 @ 0.5'																		
11	SS11 @ 0.5'																		
12	SS12 @ 0.5'																		
13	SS13 @ 0.5'																		
14	SS14 @ 0.5'																		
15	SS15 @ 0.5'																		

Relinquished by: <u>Max Bully</u>	Date/Time: <u>11/16/23 16:25</u>	Received by: <u>John W. L.</u>	Date/Time: <u>11/16/23 16:25</u>	TAT Business Days	Field DO	Notes: Don't send reports on Fridays
				Same Day <input checked="" type="checkbox"/>	Field EC	
				1 Day <input type="checkbox"/>	Field ORP	
				2 Days <input type="checkbox"/>	Field pH	
				3 Days <input type="checkbox"/>	Field Temp.	
				Standard <input type="checkbox"/>	Field Turb.	
Temperature Upon Receipt: <u>11.3</u>	Corrected Temperature _____	IR gun #: <u>2</u>	HNO3 lot #: _____			

# SUMMIT SCIENTIFIC

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

Lab ID	Page 2 of 2
2311348.2	

Client: Ensolum	Send Data To: Project Manager: Tanna Lyon	Send Invoice To: Company: Civitas Resources
Address: 11049 W. 44th Ave. Ste. 100	E-Mail: <a href="mailto:tlion@ensolum.com">tlion@ensolum.com</a> / <a href="mailto:bsulzberger@ensolum.com">bsulzberger@ensolum.com</a>	Project Name/Location: Blue 3-65 33-32-31
City/State/Zip: Wheat Ridge, CO, 80033	<a href="mailto:ensolum.com/cmcqueen@civitasresources.com">ensolum.com/cmcqueen@civitasresources.com</a>	AFE#: P1671 PD
Phone: 720-363-6416	Project Name: Blue 3-65 33-32-31	PO/Billing Codes: M/M: 8520.162
Sampler Name: Max Buffy	Project Number: 0902407007	Contact: Costin McQueen

				Preservative				Matrix				Analysis Requested				Special Instructions			
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other							
1	SS 16 @ 0.5'	11/16/23		3			X			X			X						
2	SS 17 @ 0.5'	↓		↓			↓			↓			↓						
3	SS 18 @ 0.5'	↓		↓			↓			↓			↓						
4	SS 19 @ 0.5'	↓		↓			↓			↓			↓						
5	SS 20 @ 0.5'	↓		↓			↓			↓			↓						
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			

Relinquished by: Max Buffy	Date/Time: 11/16/23 16:25	Received by: J. H. V. L.	Date/Time: 11/16/23 16:25	TAT Business Days	Field DO	Notes: Don't send reports on Friday's
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day <input checked="" type="checkbox"/>	Field EC	
				1 Day <input type="checkbox"/>	Field ORP	
				2 Days <input type="checkbox"/>	Field pH	
				3 Days <input type="checkbox"/>	Field Temp.	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Standard <input type="checkbox"/>	Field Turb.	
Temperature Upon Receipt: 11.3	Corrected Temperature	IR gun #: 2	HNO3 lot #:			

S<sub>2</sub>

## Sample Receipt Checklist

S2 Work Order# 2311348Client: Ensolym Client Project ID: Blue 3-65 33-32-31Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: \_\_\_\_\_

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 11.3 Thermometer # 2

	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 fire
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 checked="" type="checkbox"/>	<input type="checkbox"/>	No Sample times
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.

J. W. L.  
Custodian Printed Name

11/16/23 16:25  
Date/Time



Ensolum, LLC  
11049 W. 44th Ave, Ste 100  
Wheat Ridge CO, 80033

Project: Civitas - Blue 3-65 33-32-31

Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS01@0.5'**  
**2311348-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGK0629	11/16/23	11/16/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0366	91.5 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0436	109 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0404	101 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGK0631	11/16/23	11/16/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	10.4	82.8 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Ensolum, LLC  
11049 W. 44th Ave, Ste 100  
Wheat Ridge CO, 80033

Project: Civitas - Blue 3-65 33-32-31  
Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS01@0.5'**  
**2311348-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGK0645	11/17/23	11/17/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
<b>2-Methylnaphthalene</b>	<b>0.00515</b>	0.00500	"	"	"	"	"	"	

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0179	53.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0172	51.5 %	40-150		"	"	"	"	

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0651	11/17/23	11/17/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Ensolum, LLC  
11049 W. 44th Ave, Ste 100  
Wheat Ridge CO, 80033

Project: Civitas - Blue 3-65 33-32-31

Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS01@0.5'**  
**2311348-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	0.317	0.200	mg/kg dry	1	BGK0745	11/20/23	11/21/23	EPA 6020B
Barium	102	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	5.98	0.400	"	"	"	"	"	"
Lead	3.11	0.200	"	"	"	"	"	"
Nickel	1.30	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	11.6	0.400	"	"	"	"	"	"
Selenium	0.270	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 11/16/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0659	11/17/23	11/17/23	EPA 7196A	

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

Date Sampled: 11/16/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	111	0.0500	mg/L dry	1	BGK0634	11/16/23	11/17/23	EPA 6020B	
Magnesium	41.1	0.0500	"	"	"	"	"	"	
Sodium	103	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: 11/16/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.12	0.00100	units	1	BGK0704	11/18/23	11/18/23	Calculation	

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

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Project: Civitas - Blue 3-65 33-32-31

Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS01@0.5'**  
**2311348-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.5		%	1	BGK0650	11/17/23	11/17/23	Calculation	

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.40	0.0100	mmhos/cm	1	BGK0636	11/17/23	11/19/23	EPA 120.1	

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.22		pH Units	1	BGK0635	11/17/23	11/19/23	EPA 9045D	

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11049 W. 44th Ave, Ste 100  
Wheat Ridge CO, 80033

Project: Civitas - Blue 3-65 33-32-31

Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS02@0.5'**  
**2311348-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGK0629	11/16/23	11/16/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0384	95.9 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0402	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0408	102 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGK0631	11/16/23	11/16/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	10.9	87.2 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project: Civitas - Blue 3-65 33-32-31  
Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS02@0.5'**  
**2311348-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGK0645	11/17/23	11/17/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0221	66.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0210	63.0 %	40-150		"	"	"	"	

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0651	11/17/23	11/18/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Ensolum, LLC  
11049 W. 44th Ave, Ste 100  
Wheat Ridge CO, 80033

Project: Civitas - Blue 3-65 33-32-31

Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS02@0.5'**  
**2311348-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	0.776	0.200	mg/kg dry	1	BGK0745	11/20/23	11/21/23	EPA 6020B
Barium	81.8	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	7.37	0.400	"	"	"	"	"	"
Lead	4.92	0.200	"	"	"	"	"	"
Nickel	2.59	0.400	"	"	"	"	"	"
Silver	0.0279	0.0200	"	"	"	"	"	"
Zinc	13.4	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 11/16/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0659	11/17/23	11/17/23	EPA 7196A	

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

Date Sampled: 11/16/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	57.1	0.0500	mg/L dry	1	BGK0634	11/16/23	11/17/23	EPA 6020B	
Magnesium	28.3	0.0500	"	"	"	"	"	"	
Sodium	71.3	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: 11/16/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.93	0.00100	units	1	BGK0704	11/18/23	11/18/23	Calculation	

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

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Ensolum, LLC  
11049 W. 44th Ave, Ste 100  
Wheat Ridge CO, 80033

Project: Civitas - Blue 3-65 33-32-31

Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS02@0.5'**  
**2311348-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	78.9		%	1	BGK0650	11/17/23	11/17/23	Calculation	

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.830	0.0100	mmhos/cm	1	BGK0636	11/17/23	11/19/23	EPA 120.1	

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.31		pH Units	1	BGK0635	11/17/23	11/19/23	EPA 9045D	

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11049 W. 44th Ave, Ste 100  
Wheat Ridge CO, 80033

Project: Civitas - Blue 3-65 33-32-31

Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS03@0.5'**  
**2311348-03 (Soil)**

**Summit Scientific**

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGK0629	11/16/23	11/16/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0383	95.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0425	106 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0412	103 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	110	50	mg/kg	1	BGK0631	11/16/23	11/16/23	EPA 8015M	
C28-C36 (ORO)	55	50	"	"	"	"	"	"	

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	10.9	86.8 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Ensolum, LLC  
11049 W. 44th Ave, Ste 100  
Wheat Ridge CO, 80033

Project: Civitas - Blue 3-65 33-32-31  
Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS03@0.5'**  
**2311348-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGK0645	11/17/23	11/17/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
<b>Pyrene</b>	<b>0.0261</b>	0.00500	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>0.00821</b>	0.00500	"	"	"	"	"	"	
<b>2-Methylnaphthalene</b>	<b>0.00813</b>	0.00500	"	"	"	"	"	"	

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0225	67.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0207	62.1 %	40-150		"	"	"	"	

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0651	11/17/23	11/18/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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11049 W. 44th Ave, Ste 100  
Wheat Ridge CO, 80033

Project: Civitas - Blue 3-65 33-32-31

Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS03@0.5'**  
**2311348-03 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	0.888	0.200	mg/kg dry	1	BGK0745	11/20/23	11/21/23	EPA 6020B
Barium	255	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	8.36	0.400	"	"	"	"	"	"
Lead	3.84	0.200	"	"	"	"	"	"
Nickel	3.55	0.400	"	"	"	"	"	"
Silver	0.0336	0.0200	"	"	"	"	"	"
Zinc	17.2	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 11/16/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0659	11/17/23	11/17/23	EPA 7196A	

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

Date Sampled: 11/16/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	139	0.0500	mg/L dry	1	BGK0634	11/16/23	11/17/23	EPA 6020B	
Magnesium	5.98	0.0500	"	"	"	"	"	"	
Sodium	487	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: 11/16/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	11.0	0.00100	units	1	BGK0704	11/18/23	11/18/23	Calculation	

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

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11049 W. 44th Ave, Ste 100  
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Project: Civitas - Blue 3-65 33-32-31

Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS03@0.5'**  
**2311348-03 (Soil)**

**Summit Scientific**

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.1		%	1	BGK0650	11/17/23	11/17/23	Calculation	

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.95	0.0100	mmhos/cm	1	BGK0636	11/17/23	11/19/23	EPA 120.1	

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.26		pH Units	1	BGK0635	11/17/23	11/19/23	EPA 9045D	

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11049 W. 44th Ave, Ste 100  
Wheat Ridge CO, 80033

Project: Civitas - Blue 3-65 33-32-31

Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS04@0.5'**  
**2311348-04 (Soil)**

**Summit Scientific**

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGK0629	11/16/23	11/16/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0370	92.4 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0406	102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0424	106 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGK0631	11/16/23	11/16/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	10.7	85.2 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS04@0.5'**  
**2311348-04 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGK0645	11/17/23	11/17/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0221	66.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0241	72.2 %	40-150		"	"	"	"	

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0651	11/17/23	11/18/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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11049 W. 44th Ave, Ste 100  
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Project: Civitas - Blue 3-65 33-32-31

Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS04@0.5'**  
**2311348-04 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	0.830	0.200	mg/kg dry	1	BGK0745	11/20/23	11/21/23	EPA 6020B
Barium	76.7	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.65	0.400	"	"	"	"	"	"
Lead	4.57	0.200	"	"	"	"	"	"
Nickel	2.48	0.400	"	"	"	"	"	"
Silver	0.0303	0.0200	"	"	"	"	"	"
Zinc	8.23	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 11/16/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0659	11/17/23	11/17/23	EPA 7196A	

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

Date Sampled: 11/16/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	80.8	0.0500	mg/L dry	1	BGK0634	11/16/23	11/17/23	EPA 6020B	
Magnesium	37.8	0.0500	"	"	"	"	"	"	
Sodium	128	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: 11/16/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.95	0.00100	units	1	BGK0704	11/18/23	11/18/23	Calculation	

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

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11049 W. 44th Ave, Ste 100  
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Project: Civitas - Blue 3-65 33-32-31  
Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS04@0.5'**  
**2311348-04 (Soil)**

**Summit Scientific**

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.1		%	1	BGK0650	11/17/23	11/17/23	Calculation	

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.43	0.0100	mmhos/cm	1	BGK0636	11/17/23	11/19/23	EPA 120.1	

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.50		pH Units	1	BGK0635	11/17/23	11/19/23	EPA 9045D	

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Wheat Ridge CO, 80033

Project: Civitas - Blue 3-65 33-32-31

Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS05@0.5'**  
**2311348-05 (Soil)**

**Summit Scientific**

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGK0629	11/16/23	11/16/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0408	102 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0404	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0430	107 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGK0631	11/16/23	11/16/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	10.8	86.7 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Ensolum, LLC  
11049 W. 44th Ave, Ste 100  
Wheat Ridge CO, 80033

Project: Civitas - Blue 3-65 33-32-31

Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS05@0.5'**  
**2311348-05 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BGK0645	11/17/23	11/17/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0258	77.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0265	79.5 %	40-150		"	"	"	"	

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BGK0651	11/17/23	11/18/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

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Ensolum, LLC  
11049 W. 44th Ave, Ste 100  
Wheat Ridge CO, 80033

Project: Civitas - Blue 3-65 33-32-31

Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS05@0.5'**  
**2311348-05 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	0.946	0.200	mg/kg dry	1	BGK0745	11/20/23	11/21/23	EPA 6020B
Barium	142	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	4.90	0.400	"	"	"	"	"	"
Lead	7.45	0.200	"	"	"	"	"	"
Nickel	3.31	0.400	"	"	"	"	"	"
Silver	0.0486	0.0200	"	"	"	"	"	"
Zinc	11.2	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 11/16/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0659	11/17/23	11/17/23	EPA 7196A	

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

Date Sampled: 11/16/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	55.8	0.0500	mg/L dry	1	BGK0634	11/16/23	11/17/23	EPA 6020B	
Magnesium	28.8	0.0500	"	"	"	"	"	"	
Sodium	97.0	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: 11/16/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.63	0.00100	units	1	BGK0704	11/18/23	11/18/23	Calculation	

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

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Wheat Ridge CO, 80033

Project: Civitas - Blue 3-65 33-32-31

Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS05@0.5'**  
**2311348-05 (Soil)**

**Summit Scientific**

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.8		%	1	BGK0650	11/17/23	11/17/23	Calculation	

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.994	0.0100	mmhos/cm	1	BGK0636	11/17/23	11/19/23	EPA 120.1	

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.41		pH Units	1	BGK0635	11/17/23	11/19/23	EPA 9045D	

Summit Scientific

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11049 W. 44th Ave, Ste 100  
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Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS06@0.5'**  
**2311348-06 (Soil)**

**Summit Scientific**

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGK0629	11/16/23	11/16/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0380	95.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0409	102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0436	109 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGK0631	11/16/23	11/16/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	10.4	82.9 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project: Civitas - Blue 3-65 33-32-31

Project Number: 09C2407007  
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**Reported:**  
11/27/23 14:02

**SS06@0.5'**  
**2311348-06 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BGK0645	11/17/23	11/17/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0272	81.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0264	79.2 %	40-150		"	"	"	"	

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BGK0651	11/17/23	11/18/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

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Wheat Ridge CO, 80033

Project: Civitas - Blue 3-65 33-32-31

Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS06@0.5'**  
**2311348-06 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.05	0.200	mg/kg dry	1	BGK0745	11/20/23	11/21/23	EPA 6020B
Barium	78.8	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	3.86	0.400	"	"	"	"	"	"
Lead	5.30	0.200	"	"	"	"	"	"
Nickel	3.06	0.400	"	"	"	"	"	"
Silver	0.0267	0.0200	"	"	"	"	"	"
Zinc	10.6	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 11/16/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0659	11/17/23	11/17/23	EPA 7196A	

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

Date Sampled: 11/16/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	65.6	0.0500	mg/L dry	1	BGK0634	11/16/23	11/17/23	EPA 6020B	
Magnesium	29.7	0.0500	"	"	"	"	"	"	
Sodium	108	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: 11/16/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.78	0.00100	units	1	BGK0704	11/18/23	11/18/23	Calculation	

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

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11049 W. 44th Ave, Ste 100  
Wheat Ridge CO, 80033

Project: Civitas - Blue 3-65 33-32-31  
Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS06@0.5'**  
**2311348-06 (Soil)**

**Summit Scientific**

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	79.3		%	1	BGK0650	11/17/23	11/17/23	Calculation	

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.01	0.0100	mmhos/cm	1	BGK0636	11/17/23	11/19/23	EPA 120.1	

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.40		pH Units	1	BGK0635	11/17/23	11/19/23	EPA 9045D	

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11049 W. 44th Ave, Ste 100  
Wheat Ridge CO, 80033

Project: Civitas - Blue 3-65 33-32-31

Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS07@0.5'**  
**2311348-07 (Soil)**

**Summit Scientific**

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGK0629	11/16/23	11/16/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0372	92.9 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0404	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0415	104 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGK0631	11/16/23	11/16/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	10.7	85.7 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project: Civitas - Blue 3-65 33-32-31

Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS07@0.5'**  
**2311348-07 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGK0645	11/17/23	11/17/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0188	56.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0193	57.9 %	40-150		"	"	"	"	

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0651	11/17/23	11/18/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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11049 W. 44th Ave, Ste 100  
Wheat Ridge CO, 80033

Project: Civitas - Blue 3-65 33-32-31

Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS07@0.5'**  
**2311348-07 (Soil)**

### Summit Scientific

#### Total Metals by EPA 6020B

Arsenic	0.736	0.200	mg/kg dry	1	BGK0745	11/20/23	11/21/23	EPA 6020B
Barium	26.8	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.12	0.400	"	"	"	"	"	"
Lead	2.48	0.200	"	"	"	"	"	"
Nickel	2.16	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	6.91	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

#### Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/16/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0659	11/17/23	11/17/23	EPA 7196A	

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

Date Sampled: 11/16/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	35.3	0.0500	mg/L dry	1	BGK0634	11/16/23	11/17/23	EPA 6020B	
Magnesium	3.01	0.0500	"	"	"	"	"	"	
Sodium	112	0.0500	"	"	"	"	"	"	

#### Calculated Analysis

Date Sampled: 11/16/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.86	0.00100	units	1	BGK0704	11/18/23	11/18/23	Calculation	

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

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Wheat Ridge CO, 80033

Project: Civitas - Blue 3-65 33-32-31

Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS07@0.5'**  
**2311348-07 (Soil)**

**Summit Scientific**

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.2		%	1	BGK0650	11/17/23	11/17/23	Calculation	

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.761	0.0100	mmhos/cm	1	BGK0636	11/17/23	11/19/23	EPA 120.1	

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.34		pH Units	1	BGK0635	11/17/23	11/19/23	EPA 9045D	

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Ensolum, LLC  
11049 W. 44th Ave, Ste 100  
Wheat Ridge CO, 80033

Project: Civitas - Blue 3-65 33-32-31

Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS08@0.5'**  
**2311348-08 (Soil)**

**Summit Scientific**

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGK0629	11/16/23	11/16/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0264	66.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0441	110 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0355	88.6 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	160	50	mg/kg	1	BGK0631	11/16/23	11/16/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	10.5	84.4 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS08@0.5'**  
**2311348-08 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGK0645	11/17/23	11/17/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
<b>Pyrene</b>	<b>0.00759</b>	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0214	64.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0252	75.7 %	40-150		"	"	"	"	

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0651	11/17/23	11/18/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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11049 W. 44th Ave, Ste 100  
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Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS08@0.5'**  
**2311348-08 (Soil)**

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**Total Metals by EPA 6020B**

Arsenic	0.805	0.200	mg/kg dry	1	BGK0745	11/20/23	11/21/23	EPA 6020B
Barium	232	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	5.80	0.400	"	"	"	"	"	"
Lead	3.50	0.200	"	"	"	"	"	"
Nickel	2.56	0.400	"	"	"	"	"	"
Silver	0.0238	0.0200	"	"	"	"	"	"
Zinc	12.5	0.400	"	"	"	"	"	"
Selenium	0.361	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 11/16/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0659	11/17/23	11/17/23	EPA 7196A	

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

Date Sampled: 11/16/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	176	0.0500	mg/L dry	1	BGK0634	11/16/23	11/17/23	EPA 6020B	
Magnesium	23.5	0.0500	"	"	"	"	"	"	
Sodium	621	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: 11/16/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	11.7	0.00100	units	1	BGK0704	11/18/23	11/18/23	Calculation	

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

Date Sampled: 11/16/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS08@0.5'**  
**2311348-08 (Soil)**

**Summit Scientific**

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

% Solids	99.1	%	1	BGK0650	11/17/23	11/17/23	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	4.62	0.0100	mmhos/cm	1	BGK0636	11/17/23	11/19/23	EPA 120.1	

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.53		pH Units	1	BGK0635	11/17/23	11/19/23	EPA 9045D	

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Project: Civitas - Blue 3-65 33-32-31

Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS09@0.5'**  
**2311348-09 (Soil)**

**Summit Scientific**

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGK0629	11/16/23	11/16/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0364	91.1 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0410	102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0407	102 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGK0631	11/16/23	11/16/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	10.2	81.4 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project Number: 09C2407007  
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**Reported:**  
11/27/23 14:02

**SS09@0.5'**  
**2311348-09 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGK0645	11/17/23	11/17/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0231	69.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0261	78.4 %	40-150		"	"	"	"	

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0651	11/17/23	11/18/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Civitas - Blue 3-65 33-32-31

Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS09@0.5'**  
**2311348-09 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	0.611	0.200	mg/kg dry	1	BGK0745	11/20/23	11/21/23	EPA 6020B
Barium	48.7	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	7.83	0.400	"	"	"	"	"	"
Lead	3.68	0.200	"	"	"	"	"	"
Nickel	2.40	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	12.5	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 11/16/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0659	11/17/23	11/17/23	EPA 7196A	

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

Date Sampled: 11/16/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	43.9	0.0500	mg/L dry	1	BGK0634	11/16/23	11/17/23	EPA 6020B	
Magnesium	19.6	0.0500	"	"	"	"	"	"	
Sodium	40.5	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: 11/16/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.28	0.00100	units	1	BGK0704	11/18/23	11/18/23	Calculation	

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

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Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS09@0.5'**  
**2311348-09 (Soil)**

**Summit Scientific**

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.9		%	1	BGK0650	11/17/23	11/17/23	Calculation	

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.645	0.0100	mmhos/cm	1	BGK0636	11/17/23	11/19/23	EPA 120.1	

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.43		pH Units	1	BGK0635	11/17/23	11/19/23	EPA 9045D	

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**Reported:**  
11/27/23 14:02

**SS10@0.5'**  
**2311348-10 (Soil)**

**Summit Scientific**

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGK0629	11/16/23	11/16/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0423	106 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0407	102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0426	106 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	120	50	mg/kg	1	BGK0631	11/16/23	11/16/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	12.3	98.3 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS10@0.5'**  
**2311348-10 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGK0645	11/17/23	11/17/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0246	73.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0261	78.4 %	40-150		"	"	"	"	

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0651	11/17/23	11/18/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Ensolum, LLC  
11049 W. 44th Ave, Ste 100  
Wheat Ridge CO, 80033

Project: Civitas - Blue 3-65 33-32-31

Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS10@0.5'**  
**2311348-10 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	0.387	0.200	mg/kg dry	1	BGK0745	11/20/23	11/21/23	EPA 6020B
Barium	105	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	8.65	0.400	"	"	"	"	"	"
Lead	2.77	0.200	"	"	"	"	"	"
Nickel	2.42	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	12.9	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 11/16/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0659	11/17/23	11/17/23	EPA 7196A	

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

Date Sampled: 11/16/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	93.6	0.0500	mg/L dry	1	BGK0634	11/16/23	11/17/23	EPA 6020B	
Magnesium	32.5	0.0500	"	"	"	"	"	"	
Sodium	82.1	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: 11/16/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.86	0.00100	units	1	BGK0704	11/18/23	11/18/23	Calculation	

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

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Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS10@0.5'**  
**2311348-10 (Soil)**

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.6		%	1	BGK0650	11/17/23	11/17/23	Calculation	

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.34	0.0100	mmhos/cm	1	BGK0636	11/17/23	11/19/23	EPA 120.1	

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.28		pH Units	1	BGK0635	11/17/23	11/19/23	EPA 9045D	

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Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS11@0.5'**  
**2311348-11 (Soil)**

**Summit Scientific**

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGK0629	11/16/23	11/16/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0400	100 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0412	103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0420	105 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	76	50	mg/kg	1	BGK0631	11/16/23	11/16/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	10.6	85.0 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project: Civitas - Blue 3-65 33-32-31  
Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS11@0.5'**  
**2311348-11 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGK0645	11/17/23	11/18/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0233	70.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0245	73.6 %	40-150		"	"	"	"	

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0651	11/17/23	11/18/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS11@0.5'**  
**2311348-11 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	0.388	0.200	mg/kg dry	1	BGK0745	11/20/23	11/21/23	EPA 6020B
Barium	71.4	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	7.88	0.400	"	"	"	"	"	"
Lead	2.52	0.200	"	"	"	"	"	"
Nickel	1.54	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	11.2	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 11/16/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0659	11/17/23	11/17/23	EPA 7196A	

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

Date Sampled: 11/16/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	124	0.0500	mg/L dry	1	BGK0634	11/16/23	11/17/23	EPA 6020B	
Magnesium	46.3	0.0500	"	"	"	"	"	"	
Sodium	158	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: 11/16/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.07	0.00100	units	1	BGK0704	11/18/23	11/18/23	Calculation	

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

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Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS11@0.5'**  
**2311348-11 (Soil)**

**Summit Scientific**

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.6		%	1	BGK0650	11/17/23	11/17/23	Calculation	

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.11	0.0100	mmhos/cm	1	BGK0636	11/17/23	11/19/23	EPA 120.1	

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.17		pH Units	1	BGK0635	11/17/23	11/19/23	EPA 9045D	

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Project: Civitas - Blue 3-65 33-32-31

Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS12@0.5'**  
**2311348-12 (Soil)**

**Summit Scientific**

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGK0629	11/16/23	11/16/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0360	89.9 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0411	103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0423	106 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	120	50	mg/kg	1	BGK0631	11/16/23	11/16/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	10.6	84.6 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS12@0.5'**  
**2311348-12 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGK0645	11/17/23	11/18/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0163	48.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0176	52.9 %	40-150		"	"	"	"	

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0651	11/17/23	11/18/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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11049 W. 44th Ave, Ste 100  
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Project: Civitas - Blue 3-65 33-32-31

Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS12@0.5'**  
**2311348-12 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	0.878	0.200	mg/kg dry	1	BGK0745	11/20/23	11/21/23	EPA 6020B
Barium	335	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	4.84	0.400	"	"	"	"	"	"
Lead	4.87	0.200	"	"	"	"	"	"
Nickel	2.95	0.400	"	"	"	"	"	"
Silver	0.0316	0.0200	"	"	"	"	"	"
Zinc	13.2	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 11/16/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0659	11/17/23	11/17/23	EPA 7196A	

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

Date Sampled: 11/16/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	93.6	0.0500	mg/L dry	1	BGK0634	11/16/23	11/17/23	EPA 6020B	
Magnesium	10.8	0.0500	"	"	"	"	"	"	
Sodium	126	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: 11/16/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.29	0.00100	units	1	BGK0704	11/18/23	11/18/23	Calculation	

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

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**Reported:**  
11/27/23 14:02

**SS12@0.5'**  
**2311348-12 (Soil)**

**Summit Scientific**

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	98.7		%	1	BGK0650	11/17/23	11/17/23	Calculation	

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.46	0.0100	mmhos/cm	1	BGK0636	11/17/23	11/19/23	EPA 120.1	

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.28		pH Units	1	BGK0635	11/17/23	11/19/23	EPA 9045D	

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Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS13@0.5'**  
**2311348-13 (Soil)**

**Summit Scientific**

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGK0629	11/16/23	11/16/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0374	93.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0412	103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0403	101 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	410	50	mg/kg	1	BGK0631	11/16/23	11/17/23	EPA 8015M	
C28-C36 (ORO)	340	50	"	"	"	"	"	"	

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	10.6	84.6 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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**Reported:**  
11/27/23 14:02

**SS13@0.5'**  
**2311348-13 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGK0645	11/17/23	11/18/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
<b>Pyrene</b>	<b>0.0146</b>	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
<b>2-Methylnaphthalene</b>	<b>0.00810</b>	0.00500	"	"	"	"	"	"	

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0259	77.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0188	56.3 %	40-150		"	"	"	"	

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0651	11/17/23	11/18/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Ensolum, LLC  
11049 W. 44th Ave, Ste 100  
Wheat Ridge CO, 80033

Project: Civitas - Blue 3-65 33-32-31

Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS13@0.5'**  
**2311348-13 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	0.793	0.200	mg/kg dry	1	BGK0745	11/20/23	11/21/23	EPA 6020B
Barium	215	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	6.38	0.400	"	"	"	"	"	"
Lead	4.58	0.200	"	"	"	"	"	"
Nickel	2.50	0.400	"	"	"	"	"	"
Silver	0.0293	0.0200	"	"	"	"	"	"
Zinc	12.2	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 11/16/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0659	11/17/23	11/17/23	EPA 7196A	

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

Date Sampled: 11/16/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	76.7	0.0500	mg/L dry	1	BGK0634	11/16/23	11/17/23	EPA 6020B	
Magnesium	11.6	0.0500	"	"	"	"	"	"	
Sodium	382	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: 11/16/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	10.7	0.00100	units	1	BGK0704	11/18/23	11/18/23	Calculation	

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

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11049 W. 44th Ave, Ste 100  
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Project: Civitas - Blue 3-65 33-32-31

Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS13@0.5'**  
**2311348-13 (Soil)**

**Summit Scientific**

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	98.2		%	1	BGK0650	11/17/23	11/17/23	Calculation	

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.72	0.0100	mmhos/cm	1	BGK0636	11/17/23	11/19/23	EPA 120.1	

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.22		pH Units	1	BGK0635	11/17/23	11/19/23	EPA 9045D	

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Wheat Ridge CO, 80033

Project: Civitas - Blue 3-65 33-32-31

Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS14@0.5'**  
**2311348-14 (Soil)**

**Summit Scientific**

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGK0629	11/16/23	11/16/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0410	103 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0412	103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0424	106 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	450	50	mg/kg	1	BGK0631	11/16/23	11/17/23	EPA 8015M	
C28-C36 (ORO)	300	50	"	"	"	"	"	"	

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	15.1	121 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project: Civitas - Blue 3-65 33-32-31  
Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS14@0.5'**  
**2311348-14 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGK0645	11/17/23	11/18/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
<b>Pyrene</b>	<b>0.00604</b>	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0188	56.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0184	55.1 %	40-150		"	"	"	"	

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0651	11/17/23	11/18/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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11049 W. 44th Ave, Ste 100  
Wheat Ridge CO, 80033

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Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS14@0.5'**  
**2311348-14 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	0.433	0.200	mg/kg dry	1	BGK0745	11/20/23	11/21/23	EPA 6020B
Barium	156	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	11.5	0.400	"	"	"	"	"	"
Lead	4.05	0.200	"	"	"	"	"	"
Nickel	2.39	0.400	"	"	"	"	"	"
Silver	0.0315	0.0200	"	"	"	"	"	"
Zinc	13.6	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 11/16/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0659	11/17/23	11/17/23	EPA 7196A	

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

Date Sampled: 11/16/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	190	0.0500	mg/L dry	1	BGK0634	11/16/23	11/17/23	EPA 6020B	
Magnesium	62.6	0.0500	"	"	"	"	"	"	
Sodium	126	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: 11/16/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.03	0.00100	units	1	BGK0704	11/18/23	11/18/23	Calculation	

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

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11049 W. 44th Ave, Ste 100  
Wheat Ridge CO, 80033

Project: Civitas - Blue 3-65 33-32-31  
Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS14@0.5'**  
**2311348-14 (Soil)**

**Summit Scientific**

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.6		%	1	BGK0650	11/17/23	11/17/23	Calculation	

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.33	0.0100	mmhos/cm	1	BGK0636	11/17/23	11/19/23	EPA 120.1	

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.04		pH Units	1	BGK0635	11/17/23	11/19/23	EPA 9045D	

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11049 W. 44th Ave, Ste 100  
Wheat Ridge CO, 80033

Project: Civitas - Blue 3-65 33-32-31

Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS15@0.5'**  
**2311348-15 (Soil)**

**Summit Scientific**

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGK0629	11/16/23	11/16/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0304	76.1 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0434	108 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0428	107 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<b>C10-C28 (DRO)</b>	<b>820</b>	50	mg/kg	1	BGK0631	11/16/23	11/17/23	EPA 8015M	
<b>C28-C36 (ORO)</b>	<b>51</b>	50	"	"	"	"	"	"	

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	12.6	101 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS15@0.5'**  
**2311348-15 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGK0645	11/17/23	11/18/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
<b>Pyrene</b>	<b>0.00684</b>	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0248	74.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0245	73.5 %	40-150		"	"	"	"	

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

Date Sampled: **11/16/23 00:00**

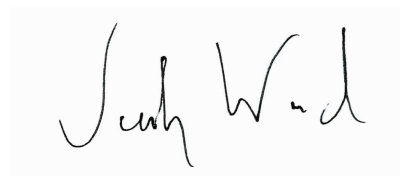
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0651	11/17/23	11/18/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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11049 W. 44th Ave, Ste 100  
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Project: Civitas - Blue 3-65 33-32-31

Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS15@0.5'**  
**2311348-15 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	0.497	0.200	mg/kg dry	1	BGK0745	11/20/23	11/21/23	EPA 6020B
Barium	249	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	23.6	0.400	"	"	"	"	"	"
Lead	3.12	0.200	"	"	"	"	"	"
Nickel	2.02	0.400	"	"	"	"	"	"
Silver	0.0374	0.0200	"	"	"	"	"	"
Zinc	11.7	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 11/16/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0659	11/17/23	11/17/23	EPA 7196A	

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

Date Sampled: 11/16/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	284	0.0500	mg/L dry	1	BGK0634	11/16/23	11/17/23	EPA 6020B	
Magnesium	65.9	0.0500	"	"	"	"	"	"	
Sodium	222	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: 11/16/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.09	0.00100	units	1	BGK0704	11/18/23	11/18/23	Calculation	

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

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Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS15@0.5'**  
**2311348-15 (Soil)**

**Summit Scientific**

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.4		%	1	BGK0650	11/17/23	11/17/23	Calculation	

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.93	0.0100	mmhos/cm	1	BGK0636	11/17/23	11/19/23	EPA 120.1	

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.08		pH Units	1	BGK0635	11/17/23	11/19/23	EPA 9045D	

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Ensolum, LLC  
11049 W. 44th Ave, Ste 100  
Wheat Ridge CO, 80033

Project: Civitas - Blue 3-65 33-32-31

Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS16@0.5'**  
**2311348-16 (Soil)**

**Summit Scientific**

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGK0629	11/16/23	11/16/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0357	89.3 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0443	111 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0428	107 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	220	50	mg/kg	1	BGK0631	11/16/23	11/17/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	10.4	83.4 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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11049 W. 44th Ave, Ste 100  
Wheat Ridge CO, 80033

Project: Civitas - Blue 3-65 33-32-31  
Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS16@0.5'**  
**2311348-16 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGK0645	11/17/23	11/18/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0147	44.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0159	47.7 %	40-150		"	"	"	"	

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0651	11/17/23	11/18/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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11049 W. 44th Ave, Ste 100  
Wheat Ridge CO, 80033

Project: Civitas - Blue 3-65 33-32-31  
Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS16@0.5'**  
**2311348-16 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	0.399	0.200	mg/kg dry	1	BGK0745	11/20/23	11/21/23	EPA 6020B
Barium	243	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	6.12	0.400	"	"	"	"	"	"
Lead	4.03	0.200	"	"	"	"	"	"
Nickel	1.65	0.400	"	"	"	"	"	"
Silver	0.0305	0.0200	"	"	"	"	"	"
Zinc	8.81	0.400	"	"	"	"	"	"
Selenium	0.354	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 11/16/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0659	11/17/23	11/17/23	EPA 7196A	

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

Date Sampled: 11/16/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	345	0.0500	mg/L dry	1	BGK0634	11/16/23	11/17/23	EPA 6020B	
Magnesium	119	0.0500	"	"	"	"	"	"	
Sodium	139	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: 11/16/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.65	0.00100	units	1	BGK0704	11/18/23	11/18/23	Calculation	

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

Date Sampled: 11/16/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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11049 W. 44th Ave, Ste 100  
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Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS16@0.5'**  
**2311348-16 (Soil)**

**Summit Scientific**

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

% Solids	96.9	%	1	BGK0650	11/17/23	11/17/23	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	4.08	0.0100	mmhos/cm	1	BGK0636	11/17/23	11/19/23	EPA 120.1	

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.17		pH Units	1	BGK0635	11/17/23	11/19/23	EPA 9045D	

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Wheat Ridge CO, 80033

Project: Civitas - Blue 3-65 33-32-31

Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS17@0.5'**  
**2311348-17 (Soil)**

**Summit Scientific**

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGK0629	11/16/23	11/17/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0339	84.7 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0405	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0416	104 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	220	50	mg/kg	1	BGK0631	11/16/23	11/17/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	12.4	98.9 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project: Civitas - Blue 3-65 33-32-31  
Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS17@0.5'**  
**2311348-17 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGK0645	11/17/23	11/18/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0192	57.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0201	60.4 %	40-150		"	"	"	"	

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0651	11/17/23	11/18/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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11049 W. 44th Ave, Ste 100  
Wheat Ridge CO, 80033

Project: Civitas - Blue 3-65 33-32-31

Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS17@0.5'**  
**2311348-17 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	0.541	0.200	mg/kg dry	1	BGK0745	11/20/23	11/21/23	EPA 6020B
Barium	160	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	9.29	0.400	"	"	"	"	"	"
Lead	3.03	0.200	"	"	"	"	"	"
Nickel	2.13	0.400	"	"	"	"	"	"
Silver	0.0221	0.0200	"	"	"	"	"	"
Zinc	12.3	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 11/16/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0659	11/17/23	11/17/23	EPA 7196A	

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

Date Sampled: 11/16/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	286	0.0500	mg/L dry	1	BGK0634	11/16/23	11/17/23	EPA 6020B	
Magnesium	109	0.0500	"	"	"	"	"	"	
Sodium	137	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: 11/16/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.75	0.00100	units	1	BGK0704	11/18/23	11/18/23	Calculation	

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

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Wheat Ridge CO, 80033

Project: Civitas - Blue 3-65 33-32-31  
Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS17@0.5'**  
**2311348-17 (Soil)**

**Summit Scientific**

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.5		%	1	BGK0650	11/17/23	11/17/23	Calculation	

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.56	0.0100	mmhos/cm	1	BGK0636	11/17/23	11/19/23	EPA 120.1	

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.14		pH Units	1	BGK0635	11/17/23	11/19/23	EPA 9045D	

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Wheat Ridge CO, 80033

Project: Civitas - Blue 3-65 33-32-31

Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS18@0.5'**  
**2311348-18 (Soil)**

**Summit Scientific**

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGK0629	11/16/23	11/17/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0337	84.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0450	112 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0400	99.9 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	140	50	mg/kg	1	BGK0631	11/16/23	11/17/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	10.8	86.2 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS18@0.5'**  
**2311348-18 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGK0645	11/17/23	11/18/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0222	66.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0239	71.7 %	40-150		"	"	"	"	

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0651	11/17/23	11/18/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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11049 W. 44th Ave, Ste 100  
Wheat Ridge CO, 80033

Project: Civitas - Blue 3-65 33-32-31

Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS18@0.5'**  
**2311348-18 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	0.763	0.200	mg/kg dry	1	BGK0745	11/20/23	11/21/23	EPA 6020B
Barium	310	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	6.44	0.400	"	"	"	"	"	"
Lead	5.39	0.200	"	"	"	"	"	"
Nickel	2.69	0.400	"	"	"	"	"	"
Silver	0.0307	0.0200	"	"	"	"	"	"
Zinc	12.8	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 11/16/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0659	11/17/23	11/17/23	EPA 7196A	

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

Date Sampled: 11/16/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	229	0.0500	mg/L dry	1	BGK0634	11/16/23	11/17/23	EPA 6020B	
Magnesium	33.1	0.0500	"	"	"	"	"	"	
Sodium	320	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: 11/16/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.23	0.00100	units	1	BGK0704	11/18/23	11/18/23	Calculation	

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

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Ensolum, LLC  
11049 W. 44th Ave, Ste 100  
Wheat Ridge CO, 80033

Project: Civitas - Blue 3-65 33-32-31

Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS18@0.5'**  
**2311348-18 (Soil)**

**Summit Scientific**

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	98.9		%	1	BGK0650	11/17/23	11/17/23	Calculation	

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.88	0.0100	mmhos/cm	1	BGK0636	11/17/23	11/19/23	EPA 120.1	

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.19		pH Units	1	BGK0635	11/17/23	11/19/23	EPA 9045D	

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11049 W. 44th Ave, Ste 100  
Wheat Ridge CO, 80033

Project: Civitas - Blue 3-65 33-32-31

Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS19@0.5'**  
**2311348-19 (Soil)**

**Summit Scientific**

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGK0629	11/16/23	11/17/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0237	59.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0569	142 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0299	74.8 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	430	50	mg/kg	1	BGK0631	11/16/23	11/17/23	EPA 8015M	
C28-C36 (ORO)	77	50	"	"	"	"	"	"	

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	10.4	83.0 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project: Civitas - Blue 3-65 33-32-31  
Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS19@0.5'**  
**2311348-19 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGK0645	11/17/23	11/18/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
<b>Pyrene</b>	<b>0.00560</b>	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0213	63.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0229	68.8 %	40-150		"	"	"	"	

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0651	11/17/23	11/18/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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11049 W. 44th Ave, Ste 100  
Wheat Ridge CO, 80033

Project: Civitas - Blue 3-65 33-32-31

Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS19@0.5'**  
**2311348-19 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	0.996	0.200	mg/kg dry	1	BGK0745	11/20/23	11/21/23	EPA 6020B
Barium	277	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	4.38	0.400	"	"	"	"	"	"
Lead	3.83	0.200	"	"	"	"	"	"
Nickel	2.58	0.400	"	"	"	"	"	"
Silver	0.0202	0.0200	"	"	"	"	"	"
Zinc	11.4	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 11/16/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0659	11/17/23	11/17/23	EPA 7196A	

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

Date Sampled: 11/16/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	203	0.0500	mg/L dry	1	BGK0634	11/16/23	11/17/23	EPA 6020B	
Magnesium	23.0	0.0500	"	"	"	"	"	"	
Sodium	235	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: 11/16/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.17	0.00100	units	1	BGK0704	11/18/23	11/18/23	Calculation	

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

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11049 W. 44th Ave, Ste 100  
Wheat Ridge CO, 80033

Project: Civitas - Blue 3-65 33-32-31  
Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS19@0.5'**  
**2311348-19 (Soil)**

**Summit Scientific**

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	99.1		%	1	BGK0650	11/17/23	11/17/23	Calculation	

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.83	0.0100	mmhos/cm	1	BGK0636	11/17/23	11/19/23	EPA 120.1	

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.31		pH Units	1	BGK0635	11/17/23	11/19/23	EPA 9045D	

Summit Scientific

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11049 W. 44th Ave, Ste 100  
Wheat Ridge CO, 80033

Project: Civitas - Blue 3-65 33-32-31

Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS20@0.5'**  
**2311348-20 (Soil)**

**Summit Scientific**

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGK0629	11/16/23	11/17/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0357	89.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0418	105 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0413	103 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	160	50	mg/kg	1	BGK0631	11/16/23	11/17/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	10.6	84.8 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Wheat Ridge CO, 80033

Project: Civitas - Blue 3-65 33-32-31  
Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS20@0.5'**  
**2311348-20 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGK0645	11/17/23	11/18/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
<b>2-Methylnaphthalene</b>	<b>0.00526</b>	0.00500	"	"	"	"	"	"	

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0178	53.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0206	61.7 %	40-150		"	"	"	"	

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK0651	11/17/23	11/18/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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11049 W. 44th Ave, Ste 100  
Wheat Ridge CO, 80033

Project: Civitas - Blue 3-65 33-32-31  
Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS20@0.5'**  
**2311348-20 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	0.557	0.200	mg/kg dry	1	BGK0745	11/20/23	11/21/23	EPA 6020B
Barium	250	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	12.4	0.400	"	"	"	"	"	"
Lead	4.79	0.200	"	"	"	"	"	"
Nickel	2.14	0.400	"	"	"	"	"	"
Silver	0.0420	0.0200	"	"	"	"	"	"
Zinc	12.7	0.400	"	"	"	"	"	"
Selenium	0.280	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 11/16/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK0659	11/17/23	11/17/23	EPA 7196A	

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

Date Sampled: 11/16/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	559	0.0500	mg/L dry	1	BGK0634	11/16/23	11/17/23	EPA 6020B	
Magnesium	97.1	0.0500	"	"	"	"	"	"	
Sodium	202	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: 11/16/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.07	0.00100	units	1	BGK0704	11/18/23	11/18/23	Calculation	

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

Date Sampled: 11/16/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**SS20@0.5'**  
**2311348-20 (Soil)**

**Summit Scientific**

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

% Solids	98.1	%	1	BGK0650	11/17/23	11/17/23	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	5.09	0.0100	mmhos/cm	1	BGK0636	11/17/23	11/19/23	EPA 120.1	

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

Date Sampled: **11/16/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.21		pH Units	1	BGK0635	11/17/23	11/19/23	EPA 9045D	

Summit Scientific

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11049 W. 44th Ave, Ste 100  
Wheat Ridge CO, 80033

Project: Civitas - Blue 3-65 33-32-31

Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

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

### Summit Scientific

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

#### Batch BGK0629 - EPA 5030 Soil MS

##### Blank (BGK0629-BLK1)

Prepared: 11/16/23 Analyzed: 11/17/23

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	0.0358		"	0.0400		89.5	50-150			
Surrogate: Toluene-d8	0.0404		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0418		"	0.0400		105	50-150			

##### LCS (BGK0629-BS1)

Prepared: 11/16/23 Analyzed: 11/17/23

Benzene	0.0930	0.0020	mg/kg	0.100		93.0	70-130			
Toluene	0.118	0.0050	"	0.100		118	70-130			
Ethylbenzene	0.107	0.0050	"	0.100		107	70-130			
m,p-Xylene	0.212	0.010	"	0.200		106	70-130			
o-Xylene	0.106	0.0050	"	0.100		106	70-130			
1,2,4-Trimethylbenzene	0.105	0.0050	"	0.100		105	70-130			
1,3,5-Trimethylbenzene	0.105	0.0050	"	0.100		105	70-130			
Naphthalene	0.0950	0.0038	"	0.100		95.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0328		"	0.0400		82.1	50-150			
Surrogate: Toluene-d8	0.0429		"	0.0400		107	50-150			
Surrogate: 4-Bromofluorobenzene	0.0406		"	0.0400		101	50-150			

##### Matrix Spike (BGK0629-MS1)

Source: 2311348-01

Prepared: 11/16/23 Analyzed: 11/17/23

Benzene	0.0854	0.0020	mg/kg	0.100	ND	85.4	70-130			
Toluene	0.105	0.0050	"	0.100	ND	105	70-130			
Ethylbenzene	0.0858	0.0050	"	0.100	ND	85.8	70-130			
m,p-Xylene	0.148	0.010	"	0.200	ND	74.1	70-130			
o-Xylene	0.0843	0.0050	"	0.100	ND	84.3	70-130			
1,2,4-Trimethylbenzene	0.0532	0.0050	"	0.100	ND	53.2	70-130			QM-07
1,3,5-Trimethylbenzene	0.0736	0.0050	"	0.100	ND	73.6	70-130			
Naphthalene	0.0691	0.0038	"	0.100	ND	69.1	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	0.0344		"	0.0400		86.1	50-150			
Surrogate: Toluene-d8	0.0433		"	0.0400		108	50-150			
Surrogate: 4-Bromofluorobenzene	0.0403		"	0.0400		101	50-150			

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Ensolum, LLC  
11049 W. 44th Ave, Ste 100  
Wheat Ridge CO, 80033

Project: Civitas - Blue 3-65 33-32-31

Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

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

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

**Batch BGK0629 - EPA 5030 Soil MS**

Matrix Spike Dup (BGK0629-MSD1)		Source: 2311348-01			Prepared: 11/16/23 Analyzed: 11/17/23					
Benzene	0.0767	0.0020	mg/kg	0.100	ND	76.7	70-130	10.7	30	
Toluene	0.0901	0.0050	"	0.100	ND	90.1	70-130	15.0	30	
Ethylbenzene	0.0710	0.0050	"	0.100	ND	71.0	70-130	18.8	30	
m,p-Xylene	0.106	0.010	"	0.200	ND	53.1	70-130	33.1	30	QM-07
o-Xylene	0.0718	0.0050	"	0.100	ND	71.8	70-130	15.9	30	
1,2,4-Trimethylbenzene	0.0302	0.0050	"	0.100	ND	30.2	70-130	55.3	30	QM-07
1,3,5-Trimethylbenzene	0.0546	0.0050	"	0.100	ND	54.6	70-130	29.7	30	QM-07
Naphthalene	0.0535	0.0038	"	0.100	ND	53.5	70-130	25.6	30	QM-07
Surrogate: 1,2-Dichloroethane-d4		0.0317	"	0.0400		79.4	50-150			
Surrogate: Toluene-d8		0.0433	"	0.0400		108	50-150			
Surrogate: 4-Bromofluorobenzene		0.0398	"	0.0400		99.6	50-150			

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11049 W. 44th Ave, Ste 100  
Wheat Ridge CO, 80033

Project: Civitas - Blue 3-65 33-32-31  
Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

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

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

**Batch BGK0631 - EPA 3550A**

**Blank (BGK0631-BLK1)**

Prepared: 11/16/23 Analyzed: 11/17/23

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	10.1		"	12.5		80.9	30-150			

**LCS (BGK0631-BS1)**

Prepared: 11/16/23 Analyzed: 11/17/23

C10-C28 (DRO)	638	50	mg/kg	500		128	70-130			
Surrogate: o-Terphenyl	9.23		"	12.5		73.9	30-150			

**Matrix Spike (BGK0631-MS1)**

Source: 2311348-01

Prepared: 11/16/23 Analyzed: 11/17/23

C10-C28 (DRO)	692	50	mg/kg	500	27.4	133	70-130			QM-07
Surrogate: o-Terphenyl	10.8		"	12.5		86.3	30-150			

**Matrix Spike Dup (BGK0631-MSD1)**

Source: 2311348-01

Prepared: 11/16/23 Analyzed: 11/17/23

C10-C28 (DRO)	738	50	mg/kg	500	27.4	142	70-130	6.37	20	QM-07
Surrogate: o-Terphenyl	7.31		"	12.5		58.5	30-150			

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11049 W. 44th Ave, Ste 100  
Wheat Ridge CO, 80033

Project: Civitas - Blue 3-65 33-32-31  
Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

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

### Summit Scientific

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

#### Batch BGK0645 - EPA 5030 Soil MS

##### Blank (BGK0645-BLK1)

Prepared & Analyzed: 11/17/23

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	0.0313		"	0.0333		93.9		40-150			
Surrogate: Fluoranthene-d10	0.0298		"	0.0333		89.3		40-150			

##### LCS (BGK0645-BS1)

Prepared & Analyzed: 11/17/23

Acenaphthene	0.0288	0.00500	mg/kg	0.0333		86.3		31-137			
Anthracene	0.0300	0.00500	"	0.0333		90.0		30-120			
Benzo (a) anthracene	0.0289	0.00500	"	0.0333		86.7		30-120			
Benzo (a) pyrene	0.0289	0.00500	"	0.0333		86.6		30-120			
Benzo (b) fluoranthene	0.0290	0.00500	"	0.0333		87.0		30-120			
Benzo (k) fluoranthene	0.0290	0.00500	"	0.0333		86.9		30-120			
Chrysene	0.0302	0.00500	"	0.0333		90.7		30-120			
Dibenz (a,h) anthracene	0.0268	0.00500	"	0.0333		80.4		30-120			
Fluoranthene	0.0300	0.00500	"	0.0333		90.0		30-120			
Fluorene	0.0290	0.00500	"	0.0333		86.9		30-120			
Indeno (1,2,3-cd) pyrene	0.0181	0.00500	"	0.0333		54.3		30-120			
Pyrene	0.0309	0.00500	"	0.0333		92.6		35-142			
1-Methylnaphthalene	0.0288	0.00500	"	0.0333		86.5		35-142			
2-Methylnaphthalene	0.0288	0.00500	"	0.0333		86.5		35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0290		"	0.0333		86.9		40-150			
Surrogate: Fluoranthene-d10	0.0289		"	0.0333		86.8		40-150			

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Wheat Ridge CO, 80033

Project: Civitas - Blue 3-65 33-32-31

Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

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

**Summit Scientific**

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

**Batch BGK0645 - EPA 5030 Soil MS**

**Matrix Spike (BGK0645-MS1)**

Source: 2311348-01

Prepared & Analyzed: 11/17/23

Acenaphthene	0.0225	0.00500	mg/kg	0.0333	ND	67.4	31-137		
Anthracene	0.0218	0.00500	"	0.0333	ND	65.3	30-120		
Benzo (a) anthracene	0.0219	0.00500	"	0.0333	ND	65.8	30-120		
Benzo (a) pyrene	0.0198	0.00500	"	0.0333	ND	59.3	30-120		
Benzo (b) fluoranthene	0.0195	0.00500	"	0.0333	ND	58.4	30-120		
Benzo (k) fluoranthene	0.0203	0.00500	"	0.0333	ND	60.9	30-120		
Chrysene	0.0220	0.00500	"	0.0333	ND	66.0	30-120		
Dibenz (a,h) anthracene	0.0177	0.00500	"	0.0333	ND	53.0	30-120		
Fluoranthene	0.0226	0.00500	"	0.0333	ND	67.8	30-120		
Fluorene	0.0245	0.00500	"	0.0333	ND	73.5	30-120		
Indeno (1,2,3-cd) pyrene	0.0237	0.00500	"	0.0333	ND	71.2	30-120		
Pyrene	0.0219	0.00500	"	0.0333	ND	65.7	35-142		
1-Methylnaphthalene	0.0209	0.00500	"	0.0333	ND	62.6	15-130		
2-Methylnaphthalene	0.0216	0.00500	"	0.0333	0.00515	49.4	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0201		"	0.0333		60.4	40-150		
Surrogate: Fluoranthene-d10	0.0219		"	0.0333		65.7	40-150		

**Matrix Spike Dup (BGK0645-MSD1)**

Source: 2311348-01

Prepared & Analyzed: 11/17/23

Acenaphthene	0.0218	0.00500	mg/kg	0.0333	ND	65.4	31-137	3.09	30	
Anthracene	0.0219	0.00500	"	0.0333	ND	65.8	30-120	0.851	30	
Benzo (a) anthracene	0.0221	0.00500	"	0.0333	ND	66.3	30-120	0.790	30	
Benzo (a) pyrene	0.0192	0.00500	"	0.0333	ND	57.7	30-120	2.77	30	
Benzo (b) fluoranthene	0.0186	0.00500	"	0.0333	ND	55.8	30-120	4.68	30	
Benzo (k) fluoranthene	0.0197	0.00500	"	0.0333	ND	59.0	30-120	3.05	30	
Chrysene	0.0220	0.00500	"	0.0333	ND	66.1	30-120	0.0788	30	
Dibenz (a,h) anthracene	0.0169	0.00500	"	0.0333	ND	50.7	30-120	4.42	30	
Fluoranthene	0.0231	0.00500	"	0.0333	ND	69.2	30-120	1.95	30	
Fluorene	0.0221	0.00500	"	0.0333	ND	66.2	30-120	10.4	30	
Indeno (1,2,3-cd) pyrene	0.0135	0.00500	"	0.0333	ND	40.6	30-120	54.6	30	QR-02
Pyrene	0.0210	0.00500	"	0.0333	ND	63.0	35-142	4.27	30	
1-Methylnaphthalene	0.0209	0.00500	"	0.0333	ND	62.7	15-130	0.219	50	
2-Methylnaphthalene	0.0212	0.00500	"	0.0333	0.00515	48.3	15-130	1.81	50	
Surrogate: 2-Methylnaphthalene-d10	0.0204		"	0.0333		61.1	40-150			
Surrogate: Fluoranthene-d10	0.0226		"	0.0333		67.9	40-150			

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Ensolum, LLC  
11049 W. 44th Ave, Ste 100  
Wheat Ridge CO, 80033

Project: Civitas - Blue 3-65 33-32-31

Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

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

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

**Batch BGK0651 - EPA 3050B**

**Blank (BGK0651-BLK1)**

Prepared & Analyzed: 11/17/23

Boron ND 2.00 mg/L

**LCS (BGK0651-BS1)**

Prepared & Analyzed: 11/17/23

Boron 5.06 2.00 mg/L 5.00 101 80-120

**Duplicate (BGK0651-DUP1)**

Source: 2311348-01

Prepared & Analyzed: 11/17/23

Boron 0.0793 2.00 mg/L 0.0889 11.4 20

**Matrix Spike (BGK0651-MS1)**

Source: 2311348-01

Prepared & Analyzed: 11/17/23

Boron 5.13 2.00 mg/L 5.00 0.0889 101 75-125

**Matrix Spike Dup (BGK0651-MSD1)**

Source: 2311348-01

Prepared & Analyzed: 11/17/23

Boron 5.11 2.00 mg/L 5.00 0.0889 100 75-125 0.442 25

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11049 W. 44th Ave, Ste 100  
Wheat Ridge CO, 80033

Project: Civitas - Blue 3-65 33-32-31

Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BGK0745 - EPA 3050B**

**Blank (BGK0745-BLK1)**

Prepared: 11/20/23 Analyzed: 11/21/23

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 (BGK0745-BS1)**

Prepared: 11/20/23 Analyzed: 11/21/23

Arsenic	37.7	0.200	mg/kg wet	40.0	94.2	80-120
Barium	34.9	0.400	"	40.0	87.3	80-120
Cadmium	1.73	0.200	"	2.00	86.6	80-120
Copper	39.2	0.400	"	40.0	98.0	80-120
Lead	17.6	0.200	"	20.0	88.2	80-120
Nickel	38.0	0.400	"	40.0	94.9	80-120
Silver	1.74	0.0200	"	2.00	86.8	80-120
Zinc	37.5	0.400	"	40.0	93.8	80-120
Selenium	4.17	0.260	"	4.00	104	80-120

**Duplicate (BGK0745-DUP1)**

Source: 2311348-01

Prepared: 11/20/23 Analyzed: 11/21/23

Arsenic	0.368	0.200	mg/kg dry	0.317	14.8	20	
Barium	123	0.400	"	102	18.8	20	
Cadmium	0.0506	0.200	"	0.0520	2.87	20	
Copper	7.10	0.400	"	5.98	17.1	20	
Lead	3.34	0.200	"	3.11	7.40	20	
Nickel	1.44	0.400	"	1.30	10.2	20	
Silver	0.0240	0.0200	"	0.0113	72.2	20	QR-01
Zinc	9.41	0.400	"	11.6	20.5	20	QR-04
Selenium	0.241	0.260	"	0.270	11.1	20	

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11049 W. 44th Ave, Ste 100  
Wheat Ridge CO, 80033

Project: Civitas - Blue 3-65 33-32-31

Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BGK0745 - EPA 3050B**

Matrix Spike (BGK0745-MS1)		Source: 2311348-01			Prepared: 11/20/23 Analyzed: 11/21/23					
Arsenic	8.84	0.200	mg/kg dry	49.1	0.317	17.4	75-125			QM-07
Barium	166	0.400	"	49.1	102	131	75-125			QM-07
Cadmium	1.95	0.200	"	2.45	0.0520	77.4	75-125			
Copper	15.9	0.400	"	49.1	5.98	20.3	75-125			QM-07
Lead	19.2	0.200	"	24.5	3.11	65.5	75-125			QM-07
Nickel	9.85	0.400	"	49.1	1.30	17.4	75-125			QM-07
Silver	1.93	0.0200	"	2.45	0.0113	78.0	75-125			
Zinc	18.9	0.400	"	49.1	11.6	14.9	75-125			QM-07
Selenium	5.08	0.260	"	4.91	0.270	97.9	75-125			

Matrix Spike Dup (BGK0745-MSD1)		Source: 2311348-01			Prepared: 11/20/23 Analyzed: 11/21/23					
Arsenic	9.10	0.200	mg/kg dry	49.1	0.317	17.9	75-125	2.92	25	QM-07
Barium	158	0.400	"	49.1	102	114	75-125	5.27	25	
Cadmium	1.84	0.200	"	2.45	0.0520	72.8	75-125	6.03	25	QM-07
Copper	16.3	0.400	"	49.1	5.98	21.0	75-125	2.27	25	QM-07
Lead	18.2	0.200	"	24.5	3.11	61.6	75-125	5.06	25	QM-07
Nickel	10.0	0.400	"	49.1	1.30	17.8	75-125	2.00	25	QM-07
Silver	1.81	0.0200	"	2.45	0.0113	73.5	75-125	5.98	25	QM-07
Zinc	19.4	0.400	"	49.1	11.6	16.0	75-125	2.69	25	QM-07
Selenium	5.10	0.260	"	4.91	0.270	98.4	75-125	0.473	25	

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11049 W. 44th Ave, Ste 100  
Wheat Ridge CO, 80033

Project: Civitas - Blue 3-65 33-32-31

Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

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

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

**Batch BGK0659 - 3060A Mod**

**Blank (BGK0659-BLK1)**

Prepared & Analyzed: 11/17/23

Chromium, Hexavalent ND 0.30 mg/kg wet

**LCS (BGK0659-BS1)**

Prepared & Analyzed: 11/17/23

Chromium, Hexavalent 27.2 0.30 mg/kg wet 25.0 109 80-120

**Duplicate (BGK0659-DUP1)**

**Source: 2311348-01**

Prepared & Analyzed: 11/17/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

**Matrix Spike (BGK0659-MS1)**

**Source: 2311348-01**

Prepared & Analyzed: 11/17/23

Chromium, Hexavalent 29.1 0.30 mg/kg dry 30.7 ND 95.0 75-125

**Matrix Spike Dup (BGK0659-MSD1)**

**Source: 2311348-01**

Prepared & Analyzed: 11/17/23

Chromium, Hexavalent 29.4 0.30 mg/kg dry 30.7 ND 96.0 75-125 1.05 20

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11049 W. 44th Ave, Ste 100  
Wheat Ridge CO, 80033

Project: Civitas - Blue 3-65 33-32-31

Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

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

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

**Batch BGK0634 - General Preparation**

**Blank (BGK0634-BLK1)**

Prepared: 11/16/23 Analyzed: 11/17/23

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

**LCS (BGK0634-BS1)**

Prepared: 11/16/23 Analyzed: 11/17/23

Calcium	5.76	0.0500	mg/L wet	5.00	115	70-130
Magnesium	5.24	0.0500	"	5.00	105	70-130
Sodium	5.31	0.0500	"	5.00	106	70-130

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11049 W. 44th Ave, Ste 100  
Wheat Ridge CO, 80033

Project: Civitas - Blue 3-65 33-32-31

Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

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

**Summit Scientific**

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

**Batch BGK0650 - General Preparation**

**Duplicate (BGK0650-DUP1)**

**Source: 2311348-01**

**Prepared & Analyzed: 11/17/23**

% Solids	78.7	%	81.5	3.52	20
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Ensolum, LLC  
11049 W. 44th Ave, Ste 100  
Wheat Ridge CO, 80033

Project: Civitas - Blue 3-65 33-32-31

Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

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

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

**Batch BGK0636 - General Preparation**

**Blank (BGK0636-BLK1)**

Prepared: 11/17/23 Analyzed: 11/19/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BGK0636-BS1)**

Prepared: 11/17/23 Analyzed: 11/19/23

Specific Conductance (EC) 0.155 0.0100 mmhos/cm 0.150 103 95-105

**Duplicate (BGK0636-DUP1)**

**Source: 2311348-01**

Prepared: 11/17/23 Analyzed: 11/19/23

Specific Conductance (EC) 1.40 0.0100 mmhos/cm 1.40 0.00 20

Summit Scientific

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



Ensolum, LLC  
11049 W. 44th Ave, Ste 100  
Wheat Ridge CO, 80033

Project: Civitas - Blue 3-65 33-32-31

Project Number: 09C2407007  
Project Manager: Tanna Lyon

**Reported:**  
11/27/23 14:02

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

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

**Batch BGK0635 - General Preparation**

**LCS (BGK0635-BS1)**

Prepared: 11/17/23 Analyzed: 11/19/23

pH	9.09	pH Units	9.18	99.0	95-105
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**Duplicate (BGK0635-DUP1)**

**Source: 2311348-01**

Prepared: 11/17/23 Analyzed: 11/19/23

pH	8.22	pH Units	8.22	0.00	20
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Summit Scientific

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