

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

November 25, 2024

Sam Vogt

Tasman Geosciences

6855 W. 119th Ave.

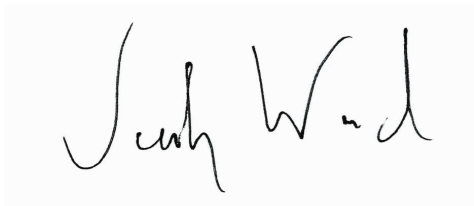
Broomfield, CO 80020

RE: Civitas - Aristocrat Angus 7-2-10 & 42-10 CommonFL

Work Order #2411023

Enclosed are the results of analyses for samples received by Summit Scientific on 11/01/24 18:06. 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



Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10 CommonFL

Project Number: 23176
Project Manager: Sam Vogt

Reported:
11/25/24 10:43

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL-B05@6'	2411023-01	Soil	11/01/24 12:40	11/01/24 18:06
FL-N01@5'	2411023-02	Soil	11/01/24 12:42	11/01/24 18:06
FL-S01@5'	2411023-03	Soil	11/01/24 12:44	11/01/24 18:06
FL-E01@5'	2411023-04	Soil	11/01/24 12:46	11/01/24 18:06
FL-W01@5'	2411023-05	Soil	11/01/24 12:48	11/01/24 18:06
FL-B14@5'	2411023-06	Soil	11/01/24 14:00	11/01/24 18:06
FL-N02@4'	2411023-07	Soil	11/01/24 14:02	11/01/24 18:06
FL-S02@4'	2411023-08	Soil	11/01/24 14:04	11/01/24 18:06
FL-E02@4'	2411023-09	Soil	11/01/24 14:06	11/01/24 18:06
FL-W02@4'	2411023-10	Soil	11/01/24 14:08	11/01/24 18:06
FL-B15@5'	2411023-11	Soil	11/01/24 15:00	11/01/24 18:06
FL-N03@4'	2411023-12	Soil	11/01/24 15:02	11/01/24 18:06
FL-S03@4'	2411023-13	Soil	11/01/24 15:04	11/01/24 18:06
FL-E03@4'	2411023-14	Soil	11/01/24 15:06	11/01/24 18:06
FL-W03@4'	2411023-15	Soil	11/01/24 15:08	11/01/24 18:06

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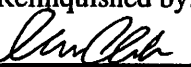

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4653 Table Mountain Drive
Golden, CO 80403
303-277-9310

Lab ID	Page 1 of 1
2411023	

Send Data To:		Send Invoice To:
Client: Civitas/Tasman	Project Manager: Sam Vogt/Jacob Evans	Company:
Address: 6855 W. 119th Ave	E-Mail: svgot@tasman-geo.com; jevans@civiresources.com	Project Name/Location:
City/State/Zip: Broomfield, CO 80020		AFE#: 23176
Phone: PM (610) 405-9078	Project Name: Aristocrat Angus 7-2-10 & 42-10 Canon FL	PO/Billing Codes: 8523.148
Sampler Name: Sean Clarke, Gabrielle Mather	Project Number:	Contact:

					Preservative				Matrix				Analysis Requested							Special Instructions	
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other _____	Water	Soil	Air-Canister #	Other _____	BTEXN	1,2,4 + 1,3,5 TMBs	TPH (GRO, DRO, ORO)	Chloride	Sulfate	TDS	Full Table 9/5		
1	FL-B0506'	11/1/24	12:40	2			X			X										X	
2	FL-N0105'		12:42	1																	
3	FL-S0105'		12:44																		
4	FL-E0105'		12:46																		
5	FL-W0105'		12:48																		
6	FL-B1405'		14:00																		
7	FL-N0204'		14:02																		
8	FL-S0204'		14:04																		
9	FL-E0204'		14:06																		
10	FL-W0204'		14:08																		
11	FL-B1505'		15:00																		
12	FL-N0304'		15:02																		
13	FL-S0304'		15:04																		
14	FL-E0304'		15:06																		
15	FL-W0304'		15:08																		

Relinquished by: 	Date/Time: 11/1/24 17:15	Received by: Tasman Lockbox	Date/Time:	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by: Tasman Lockbox	Date/Time: 11/24 1800	Received by: 	Date/Time: 11/24 1800	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	X Field Turb.	
Temperature Upon Receipt: 6.6	Corrected Temperature: 6	IR gun #:		HNO3 lot #:		

S₂

Sample Receipt Checklist

S2 Work Order# 2411023

Common FL

Client Curtis TomanClient Project ID: Arizacat Angus 7-2-10/42-10Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐Airbill #:

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

Matrix (Check all that apply)

Air

☐

Soil/Solid

☒

Water

☐

Other

☐

Temp (°C)

6.6

Thermometer #

1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>on ice</u>
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Comments (if any):

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

Custodian Printed Name

Date/Time



Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10 CommonFL
Project Number: 23176
Project Manager: Sam Vogt

Reported:
11/25/24 10:43

FL-B05@6'
2411023-01 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/01/24 12:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHK0223	11/05/24	11/07/24	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: **11/01/24 12:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0400	100 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0411	103 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0383	95.8 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/01/24 12:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHK0225	11/05/24	11/08/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **11/01/24 12:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	10.2	81.5 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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FL-B05@6'
2411023-01 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **11/01/24 12:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BHK0249	11/06/24	11/07/24	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: **11/01/24 12:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0224	67.2 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0247	74.0 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/01/24 12:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHK0479	11/11/24	11/14/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/01/24 12:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

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Project: Civitas - Aristocrat Angus 7-2-10 & 42-10 CommonFL
Project Number: 23176
Project Manager: Sam Vogt

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FL-B05@6'
2411023-01 (Soil)

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Total Metals by EPA 6020B

Arsenic	1.39	0.200	mg/kg dry	1	BHK0720	11/14/24	11/23/24	EPA 6020B
Barium	34.2	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	3.10	0.400	"	"	"	"	"	"
Lead	4.74	0.200	"	"	"	"	"	"
Nickel	2.98	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	13.0	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/01/24 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0681	11/13/24	11/19/24	EPA 7196A	

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

Date Sampled: **11/01/24 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	19.7	0.0500	mg/L dry	1	BHK0515	11/11/24	11/14/24	EPA 6020B	
Magnesium	4.38	0.0500	"	"	"	"	"	"	
Sodium	1.65	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/01/24 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0876	0.00100	units	1	BHK0755	11/14/24	11/14/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Project Number: 23176
Project Manager: Sam Vogt

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FL-B05@6'
2411023-01 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/01/24 12:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	96.2			%	1	BHK0346	11/07/24	11/07/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/01/24 12:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.0847	0.0100		mmhos/cm	1	BHK0518	11/11/24	11/14/24	EPA 120.1	

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

Date Sampled: **11/01/24 12:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.75			pH Units	1	BHK0516	11/11/24	11/14/24	EPA 9045D	

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Project Number: 23176
Project Manager: Sam Vogt

Reported:
11/25/24 10:43

FL-N01@5'
2411023-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/01/24 12:42**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHK0223	11/05/24	11/07/24	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: **11/01/24 12:42**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0403	101 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0390	97.5 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0376	94.0 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/01/24 12:42**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHK0225	11/05/24	11/09/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/01/24 12:42**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	10.3	82.1 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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2411023-02 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **11/01/24 12:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK0249	11/06/24	11/07/24	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: **11/01/24 12:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0205	61.5 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0223	67.0 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/01/24 12:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHK0479	11/11/24	11/14/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/01/24 12:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Reported:
11/25/24 10:43

FL-N01@5'
2411023-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.24	0.200	mg/kg dry	1	BHK0720	11/14/24	11/23/24	EPA 6020B
Barium	37.5	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	3.25	0.400	"	"	"	"	"	"
Lead	4.49	0.200	"	"	"	"	"	"
Nickel	3.21	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	14.1	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/01/24 12:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0681	11/13/24	11/19/24	EPA 7196A	

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

Date Sampled: **11/01/24 12:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	24.2	0.0500	mg/L dry	1	BHK0515	11/11/24	11/14/24	EPA 6020B	
Magnesium	5.45	0.0500	"	"	"	"	"	"	
Sodium	4.51	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/01/24 12:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.216	0.00100	units	1	BHK0755	11/14/24	11/14/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10 CommonFL
Project Number: 23176
Project Manager: Sam Vogt

Reported:
11/25/24 10:43

FL-N01@5'
2411023-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/01/24 12:42**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	96.3			%	1	BHK0346	11/07/24	11/07/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/01/24 12:42**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.130	0.0100		mmhos/cm	1	BHK0518	11/11/24	11/14/24	EPA 120.1	

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

Date Sampled: **11/01/24 12:42**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.72			pH Units	1	BHK0516	11/11/24	11/14/24	EPA 9045D	

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10 CommonFL
Project Number: 23176
Project Manager: Sam Vogt

Reported:
11/25/24 10:43

FL-S01@5'
2411023-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/01/24 12:44**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHK0223	11/05/24	11/07/24	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: **11/01/24 12:44**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0398	99.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0395	98.7 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0381	95.2 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/01/24 12:44**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHK0225	11/05/24	11/09/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/01/24 12:44**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	12.2	98.0 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10 CommonFL
Project Number: 23176
Project Manager: Sam Vogt

Reported:
11/25/24 10:43

FL-S01@5'
2411023-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/01/24 12:44**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BHK0249	11/06/24	11/07/24	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: **11/01/24 12:44**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0215	64.6 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0225	67.5 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/01/24 12:44**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHK0479	11/11/24	11/14/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/01/24 12:44**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10 CommonFL
Project Number: 23176
Project Manager: Sam Vogt

Reported:
11/25/24 10:43

FL-S01@5'
2411023-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.02	0.200	mg/kg dry	1	BHK0720	11/14/24	11/23/24	EPA 6020B
Barium	34.4	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.48	0.400	"	"	"	"	"	"
Lead	3.12	0.200	"	"	"	"	"	"
Nickel	2.70	0.400	"	"	"	"	"	"
Silver	0.0206	0.0200	"	"	"	"	"	"
Zinc	10.7	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/01/24 12:44**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0681	11/13/24	11/19/24	EPA 7196A	

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

Date Sampled: **11/01/24 12:44**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	20.7	0.0500	mg/L dry	1	BHK0515	11/11/24	11/14/24	EPA 6020B	
Magnesium	7.03	0.0500	"	"	"	"	"	"	
Sodium	4.98	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/01/24 12:44**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.241	0.00100	units	1	BHK0755	11/14/24	11/14/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10 CommonFL
Project Number: 23176
Project Manager: Sam Vogt

Reported:
11/25/24 10:43

FL-S01@5'
2411023-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/01/24 12:44**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	96.2			%	1	BHK0346	11/07/24	11/07/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/01/24 12:44**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.0610	0.0100		mmhos/cm	1	BHK0518	11/11/24	11/14/24	EPA 120.1	

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

Date Sampled: **11/01/24 12:44**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.93			pH Units	1	BHK0516	11/11/24	11/14/24	EPA 9045D	

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10 CommonFL
Project Number: 23176
Project Manager: Sam Vogt

Reported:
11/25/24 10:43

FL-E01@5'
2411023-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/01/24 12:46**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHK0223	11/05/24	11/07/24	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: **11/01/24 12:46**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0392	97.9 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0407	102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0385	96.2 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/01/24 12:46**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHK0225	11/05/24	11/09/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/01/24 12:46**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	10.3	82.6 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10 CommonFL
Project Number: 23176
Project Manager: Sam Vogt

Reported:
11/25/24 10:43

FL-E01@5'
2411023-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/01/24 12:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK0249	11/06/24	11/07/24	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: **11/01/24 12:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0215	64.6 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0235	70.5 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/01/24 12:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHK0479	11/11/24	11/14/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/01/24 12:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10 CommonFL
Project Number: 23176
Project Manager: Sam Vogt

Reported:
11/25/24 10:43

FL-E01@5'
2411023-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.32	0.200	mg/kg dry	1	BHK0720	11/14/24	11/23/24	EPA 6020B
Barium	36.9	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.98	0.400	"	"	"	"	"	"
Lead	3.94	0.200	"	"	"	"	"	"
Nickel	3.40	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	13.6	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/01/24 12:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0681	11/13/24	11/19/24	EPA 7196A	

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

Date Sampled: **11/01/24 12:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	25.0	0.0500	mg/L dry	1	BHK0515	11/11/24	11/14/24	EPA 6020B	
Magnesium	5.73	0.0500	"	"	"	"	"	"	
Sodium	2.60	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/01/24 12:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.122	0.00100	units	1	BHK0755	11/14/24	11/14/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10 CommonFL
Project Number: 23176
Project Manager: Sam Vogt

Reported:
11/25/24 10:43

FL-E01@5'
2411023-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/01/24 12:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.8		%	1	BHK0346	11/07/24	11/07/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/01/24 12:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0733	0.0100	mmhos/cm	1	BHK0518	11/11/24	11/14/24	EPA 120.1	

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

Date Sampled: **11/01/24 12:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.63		pH Units	1	BHK0516	11/11/24	11/14/24	EPA 9045D	

Summit Scientific

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Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10 CommonFL
Project Number: 23176
Project Manager: Sam Vogt

Reported:
11/25/24 10:43

FL-W01@5'
2411023-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/01/24 12:48**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHK0223	11/05/24	11/07/24	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: **11/01/24 12:48**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0448	112 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0405	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0396	99.0 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/01/24 12:48**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHK0225	11/05/24	11/09/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/01/24 12:48**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	10.1	80.8 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10 CommonFL
Project Number: 23176
Project Manager: Sam Vogt

Reported:
11/25/24 10:43

FL-W01@5'
2411023-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/01/24 12:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK0249	11/06/24	11/07/24	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: **11/01/24 12:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0171	51.4 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0182	54.6 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/01/24 12:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHK0479	11/11/24	11/14/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/01/24 12:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10 CommonFL
Project Number: 23176
Project Manager: Sam Vogt

Reported:
11/25/24 10:43

FL-W01@5'
2411023-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.21	0.200	mg/kg dry	1	BHK0720	11/14/24	11/23/24	EPA 6020B
Barium	37.8	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.84	0.400	"	"	"	"	"	"
Lead	3.59	0.200	"	"	"	"	"	"
Nickel	3.02	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	12.3	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/01/24 12:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0681	11/13/24	11/19/24	EPA 7196A	

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

Date Sampled: **11/01/24 12:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	22.2	0.0500	mg/L dry	1	BHK0515	11/11/24	11/14/24	EPA 6020B	
Magnesium	6.04	0.0500	"	"	"	"	"	"	
Sodium	2.38	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/01/24 12:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.116	0.00100	units	1	BHK0755	11/14/24	11/14/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10 CommonFL
Project Number: 23176
Project Manager: Sam Vogt

Reported:
11/25/24 10:43

FL-W01@5'
2411023-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/01/24 12:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	96.0			%	1	BHK0346	11/07/24	11/07/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/01/24 12:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.0478	0.0100		mmhos/cm	1	BHK0518	11/11/24	11/14/24	EPA 120.1	

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

Date Sampled: **11/01/24 12:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.70			pH Units	1	BHK0516	11/11/24	11/14/24	EPA 9045D	

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10 CommonFL
Project Number: 23176
Project Manager: Sam Vogt

Reported:
11/25/24 10:43

FL-B14@5'
2411023-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/01/24 14:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHK0223	11/05/24	11/07/24	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: **11/01/24 14:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0400	100 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0407	102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0385	96.3 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/01/24 14:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHK0225	11/05/24	11/09/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/01/24 14:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	7.84	62.7 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10 CommonFL
Project Number: 23176
Project Manager: Sam Vogt

Reported:
11/25/24 10:43

FL-B14@5'
2411023-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/01/24 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK0249	11/06/24	11/07/24	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: **11/01/24 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0208	62.3 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0223	66.9 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/01/24 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHK0479	11/11/24	11/14/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/01/24 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10 CommonFL
Project Number: 23176
Project Manager: Sam Vogt

Reported:
11/25/24 10:43

FL-B14@5'
2411023-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	0.853	0.200	mg/kg dry	1	BHK0720	11/14/24	11/23/24	EPA 6020B
Barium	38.4	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.64	0.400	"	"	"	"	"	"
Lead	3.00	0.200	"	"	"	"	"	"
Nickel	2.77	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	10.5	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/01/24 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0681	11/13/24	11/19/24	EPA 7196A	

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

Date Sampled: **11/01/24 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	24.1	0.0500	mg/L dry	1	BHK0515	11/11/24	11/14/24	EPA 6020B	
Magnesium	6.51	0.0500	"	"	"	"	"	"	
Sodium	52.4	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/01/24 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.44	0.00100	units	1	BHK0755	11/14/24	11/14/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10 CommonFL
Project Number: 23176
Project Manager: Sam Vogt

Reported:
11/25/24 10:43

FL-B14@5'
2411023-06 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/01/24 14:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	84.2			%	1	BHK0346	11/07/24	11/07/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/01/24 14:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.384	0.0100		mmhos/cm	1	BHK0518	11/11/24	11/14/24	EPA 120.1	

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

Date Sampled: **11/01/24 14:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.00			pH Units	1	BHK0516	11/11/24	11/14/24	EPA 9045D	

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Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10 CommonFL
Project Number: 23176
Project Manager: Sam Vogt

Reported:
11/25/24 10:43

FL-N02@4'
2411023-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/01/24 14:02**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHK0223	11/05/24	11/07/24	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: **11/01/24 14:02**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0418	104 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0402	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0374	93.5 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/01/24 14:02**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHK0225	11/05/24	11/09/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/01/24 14:02**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	8.47	67.8 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10 CommonFL
Project Number: 23176
Project Manager: Sam Vogt

Reported:
11/25/24 10:43

FL-N02@4'
2411023-07 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/01/24 14:02**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BHK0249	11/06/24	11/07/24	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	0.00607	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: **11/01/24 14:02**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0194	58.2 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0206	61.8 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/01/24 14:02**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHK0479	11/11/24	11/14/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/01/24 14:02**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10 CommonFL
Project Number: 23176
Project Manager: Sam Vogt

Reported:
11/25/24 10:43

FL-N02@4'
2411023-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.12	0.200	mg/kg dry	1	BHK0720	11/14/24	11/23/24	EPA 6020B
Barium	25.3	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.84	0.400	"	"	"	"	"	"
Lead	3.12	0.200	"	"	"	"	"	"
Nickel	3.13	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	11.8	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/01/24 14:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0681	11/13/24	11/19/24	EPA 7196A	

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

Date Sampled: **11/01/24 14:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	21.4	0.0500	mg/L dry	1	BHK0515	11/11/24	11/14/24	EPA 6020B	
Magnesium	5.91	0.0500	"	"	"	"	"	"	
Sodium	143	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/01/24 14:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	7.06	0.00100	units	1	BHK0755	11/14/24	11/14/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10 CommonFL
Project Number: 23176
Project Manager: Sam Vogt

Reported:
11/25/24 10:43

FL-N02@4'
2411023-07 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/01/24 14:02**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	83.9			%	1	BHK0346	11/07/24	11/07/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/01/24 14:02**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.720	0.0100		mmhos/cm	1	BHK0518	11/11/24	11/14/24	EPA 120.1	

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

Date Sampled: **11/01/24 14:02**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.96			pH Units	1	BHK0516	11/11/24	11/14/24	EPA 9045D	

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10 CommonFL
Project Number: 23176
Project Manager: Sam Vogt

Reported:
11/25/24 10:43

FL-S02@4'
2411023-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/01/24 14:04**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHK0223	11/05/24	11/07/24	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: **11/01/24 14:04**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0416	104 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0405	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0379	94.7 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/01/24 14:04**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHK0225	11/05/24	11/09/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/01/24 14:04**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	8.38	67.0 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10 CommonFL
Project Number: 23176
Project Manager: Sam Vogt

Reported:
11/25/24 10:43

FL-S02@4'
2411023-08 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/01/24 14:04**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BHK0249	11/06/24	11/07/24	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: **11/01/24 14:04**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0184	55.3 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0205	61.5 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/01/24 14:04**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHK0479	11/11/24	11/14/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/01/24 14:04**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10 CommonFL
Project Number: 23176
Project Manager: Sam Vogt

Reported:
11/25/24 10:43

FL-S02@4'
2411023-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.79	0.200	mg/kg dry	1	BHK0720	11/14/24	11/23/24	EPA 6020B
Barium	32.8	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.57	0.400	"	"	"	"	"	"
Lead	3.05	0.200	"	"	"	"	"	"
Nickel	3.00	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	11.4	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/01/24 14:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0681	11/13/24	11/19/24	EPA 7196A	

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

Date Sampled: **11/01/24 14:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	27.7	0.0500	mg/L dry	1	BHK0515	11/11/24	11/14/24	EPA 6020B	
Magnesium	7.75	0.0500	"	"	"	"	"	"	
Sodium	67.1	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/01/24 14:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.90	0.00100	units	1	BHK0755	11/14/24	11/14/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10 CommonFL
Project Number: 23176
Project Manager: Sam Vogt

Reported:
11/25/24 10:43

FL-S02@4'
2411023-08 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/01/24 14:04**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	83.7			%	1	BHK0346	11/07/24	11/07/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/01/24 14:04**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.472	0.0100		mmhos/cm	1	BHK0518	11/11/24	11/14/24	EPA 120.1	

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

Date Sampled: **11/01/24 14:04**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.68			pH Units	1	BHK0516	11/11/24	11/14/24	EPA 9045D	

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Project: Civitas - Aristocrat Angus 7-2-10 & 42-10 CommonFL
Project Number: 23176
Project Manager: Sam Vogt

Reported:
11/25/24 10:43

FL-E02@4'
2411023-09 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/01/24 14:06**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHK0223	11/05/24	11/07/24	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: **11/01/24 14:06**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0416	104 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0401	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0381	95.3 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/01/24 14:06**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHK0225	11/05/24	11/09/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/01/24 14:06**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	8.24	65.9 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Civitas - Aristocrat Angus 7-2-10 & 42-10 CommonFL
Project Number: 23176
Project Manager: Sam Vogt

Reported:
11/25/24 10:43

FL-E02@4'
2411023-09 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/01/24 14:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK0249	11/06/24	11/07/24	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: **11/01/24 14:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0196	58.8 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0201	60.4 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/01/24 14:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHK0479	11/11/24	11/14/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/01/24 14:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10 CommonFL
Project Number: 23176
Project Manager: Sam Vogt

Reported:
11/25/24 10:43

FL-E02@4'
2411023-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	0.710	0.200	mg/kg dry	1	BHK0720	11/14/24	11/23/24	EPA 6020B
Barium	44.3	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.69	0.400	"	"	"	"	"	"
Lead	2.57	0.200	"	"	"	"	"	"
Nickel	2.66	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	9.48	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/01/24 14:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0681	11/13/24	11/19/24	EPA 7196A	

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

Date Sampled: **11/01/24 14:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	24.4	0.0500	mg/L dry	1	BHK0515	11/11/24	11/14/24	EPA 6020B	
Magnesium	7.25	0.0500	"	"	"	"	"	"	
Sodium	72.6	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/01/24 14:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.32	0.00100	units	1	BHK0755	11/14/24	11/14/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Project: Civitas - Aristocrat Angus 7-2-10 & 42-10 CommonFL
Project Number: 23176
Project Manager: Sam Vogt

Reported:
11/25/24 10:43

FL-E02@4'
2411023-09 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/01/24 14:06**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	85.5			%	1	BHK0346	11/07/24	11/07/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/01/24 14:06**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.700	0.0100		mmhos/cm	1	BHK0518	11/11/24	11/14/24	EPA 120.1	

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

Date Sampled: **11/01/24 14:06**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.83			pH Units	1	BHK0516	11/11/24	11/14/24	EPA 9045D	

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Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10 CommonFL
Project Number: 23176
Project Manager: Sam Vogt

Reported:
11/25/24 10:43

FL-W02@4'
2411023-10 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/01/24 14:08**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHK0223	11/05/24	11/07/24	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: **11/01/24 14:08**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0411	103 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0407	102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0378	94.5 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/01/24 14:08**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHK0225	11/05/24	11/09/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/01/24 14:08**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	6.36	50.9 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Project Number: 23176
Project Manager: Sam Vogt

Reported:
11/25/24 10:43

FL-W02@4'
2411023-10 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/01/24 14:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK0249	11/06/24	11/08/24	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: **11/01/24 14:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0137	41.2 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0148	44.3 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/01/24 14:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHK0479	11/11/24	11/14/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/01/24 14:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10 CommonFL
Project Number: 23176
Project Manager: Sam Vogt

Reported:
11/25/24 10:43

FL-W02@4'
2411023-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	0.800	0.200	mg/kg dry	1	BHK0720	11/14/24	11/23/24	EPA 6020B
Barium	26.4	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.07	0.400	"	"	"	"	"	"
Lead	3.57	0.200	"	"	"	"	"	"
Nickel	2.64	0.400	"	"	"	"	"	"
Silver	0.0203	0.0200	"	"	"	"	"	"
Zinc	10.0	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/01/24 14:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0681	11/13/24	11/19/24	EPA 7196A	

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

Date Sampled: **11/01/24 14:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	38.8	0.0500	mg/L dry	1	BHK0515	11/11/24	11/14/24	EPA 6020B	
Magnesium	9.95	0.0500	"	"	"	"	"	"	
Sodium	68.4	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/01/24 14:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.54	0.00100	units	1	BHK0755	11/14/24	11/14/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10 CommonFL
Project Number: 23176
Project Manager: Sam Vogt

Reported:
11/25/24 10:43

FL-W02@4'
2411023-10 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/01/24 14:08**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	84.7			%	1	BHK0346	11/07/24	11/07/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/01/24 14:08**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.565	0.0100		mmhos/cm	1	BHK0518	11/11/24	11/14/24	EPA 120.1	

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

Date Sampled: **11/01/24 14:08**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.23			pH Units	1	BHK0516	11/11/24	11/14/24	EPA 9045D	

Summit Scientific

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Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10 CommonFL
Project Number: 23176
Project Manager: Sam Vogt

Reported:
11/25/24 10:43

FL-B15@5'
2411023-11 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/01/24 15:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHK0223	11/05/24	11/07/24	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: **11/01/24 15:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0444	111 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0398	99.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0398	99.4 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/01/24 15:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHK0225	11/05/24	11/09/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/01/24 15:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	8.48	67.8 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10 CommonFL
Project Number: 23176
Project Manager: Sam Vogt

Reported:
11/25/24 10:43

FL-B15@5'
2411023-11 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/01/24 15:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BHK0249	11/06/24	11/08/24	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: **11/01/24 15:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0193	57.8 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0197	59.1 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/01/24 15:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHK0479	11/11/24	11/14/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/01/24 15:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10 CommonFL
Project Number: 23176
Project Manager: Sam Vogt

Reported:
11/25/24 10:43

FL-B15@5'
2411023-11 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	0.987	0.200	mg/kg dry	1	BHK0720	11/14/24	11/23/24	EPA 6020B
Barium	31.5	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.69	0.400	"	"	"	"	"	"
Lead	3.45	0.200	"	"	"	"	"	"
Nickel	3.35	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	11.7	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/01/24 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0681	11/13/24	11/19/24	EPA 7196A	

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

Date Sampled: **11/01/24 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	36.3	0.0500	mg/L dry	1	BHK0515	11/11/24	11/14/24	EPA 6020B	
Magnesium	9.38	0.0500	"	"	"	"	"	"	
Sodium	75.0	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/01/24 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.87	0.00100	units	1	BHK0755	11/14/24	11/14/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10 CommonFL
Project Number: 23176
Project Manager: Sam Vogt

Reported:
11/25/24 10:43

FL-B15@5'
2411023-11 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/01/24 15:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	85.1			%	1	BHK0346	11/07/24	11/07/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/01/24 15:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.552	0.0100		mmhos/cm	1	BHK0518	11/11/24	11/14/24	EPA 120.1	

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

Date Sampled: **11/01/24 15:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.97			pH Units	1	BHK0516	11/11/24	11/14/24	EPA 9045D	

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10 CommonFL
Project Number: 23176
Project Manager: Sam Vogt

Reported:
11/25/24 10:43

FL-N03@4'
2411023-12 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/01/24 15:02**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHK0223	11/05/24	11/07/24	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: **11/01/24 15:02**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0424	106 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0393	98.3 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0394	98.6 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/01/24 15:02**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHK0225	11/05/24	11/09/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/01/24 15:02**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	6.90	55.2 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10 CommonFL
Project Number: 23176
Project Manager: Sam Vogt

Reported:
11/25/24 10:43

FL-N03@4'
2411023-12 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/01/24 15:02**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BHK0249	11/06/24	11/08/24	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: **11/01/24 15:02**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0198	59.3 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0198	59.3 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/01/24 15:02**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHK0479	11/11/24	11/14/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/01/24 15:02**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10 CommonFL
Project Number: 23176
Project Manager: Sam Vogt

Reported:
11/25/24 10:43

FL-N03@4'
2411023-12 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.27	0.200	mg/kg dry	1	BHK0720	11/14/24	11/23/24	EPA 6020B
Barium	32.7	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	3.06	0.400	"	"	"	"	"	"
Lead	3.18	0.200	"	"	"	"	"	"
Nickel	3.51	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	12.9	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/01/24 15:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0681	11/13/24	11/19/24	EPA 7196A	

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

Date Sampled: **11/01/24 15:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	53.3	0.0500	mg/L dry	1	BHK0515	11/11/24	11/14/24	EPA 6020B	
Magnesium	14.1	0.0500	"	"	"	"	"	"	
Sodium	107	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/01/24 15:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.37	0.00100	units	1	BHK0755	11/14/24	11/14/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10 CommonFL
Project Number: 23176
Project Manager: Sam Vogt

Reported:
11/25/24 10:43

FL-N03@4'
2411023-12 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/01/24 15:02**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	84.7			%	1	BHK0346	11/07/24	11/07/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/01/24 15:02**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.950	0.0100		mmhos/cm	1	BHK0518	11/11/24	11/14/24	EPA 120.1	

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

Date Sampled: **11/01/24 15:02**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.66			pH Units	1	BHK0516	11/11/24	11/14/24	EPA 9045D	

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10 CommonFL
Project Number: 23176
Project Manager: Sam Vogt

Reported:
11/25/24 10:43

FL-S03@4'
2411023-13 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/01/24 15:04**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHK0223	11/05/24	11/07/24	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: **11/01/24 15:04**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0425	106 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0405	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0388	97.0 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/01/24 15:04**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHK0225	11/05/24	11/09/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/01/24 15:04**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	6.53	52.3 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10 CommonFL
Project Number: 23176
Project Manager: Sam Vogt

Reported:
11/25/24 10:43

FL-S03@4'
2411023-13 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/01/24 15:04**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BHK0249	11/06/24	11/08/24	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: **11/01/24 15:04**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0181	54.3 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0205	61.4 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/01/24 15:04**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHK0479	11/11/24	11/14/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/01/24 15:04**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10 CommonFL
Project Number: 23176
Project Manager: Sam Vogt

Reported:
11/25/24 10:43

FL-S03@4'
2411023-13 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.16	0.200	mg/kg dry	1	BHK0720	11/14/24	11/23/24	EPA 6020B
Barium	38.5	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	3.46	0.400	"	"	"	"	"	"
Lead	3.33	0.200	"	"	"	"	"	"
Nickel	3.49	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	11.5	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/01/24 15:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0681	11/13/24	11/19/24	EPA 7196A	

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

Date Sampled: **11/01/24 15:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	30.5	0.0500	mg/L dry	1	BHK0515	11/11/24	11/14/24	EPA 6020B	
Magnesium	7.72	0.0500	"	"	"	"	"	"	
Sodium	67.8	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/01/24 15:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.84	0.00100	units	1	BHK0755	11/14/24	11/14/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10 CommonFL
Project Number: 23176
Project Manager: Sam Vogt

Reported:
11/25/24 10:43

FL-S03@4'
2411023-13 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/01/24 15:04**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	82.9			%	1	BHK0346	11/07/24	11/07/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/01/24 15:04**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.554	0.0100		mmhos/cm	1	BHK0518	11/11/24	11/14/24	EPA 120.1	

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

Date Sampled: **11/01/24 15:04**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.81			pH Units	1	BHK0516	11/11/24	11/14/24	EPA 9045D	

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10 CommonFL
Project Number: 23176
Project Manager: Sam Vogt

Reported:
11/25/24 10:43

FL-E03@4'
2411023-14 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/01/24 15:06**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHK0223	11/05/24	11/07/24	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: **11/01/24 15:06**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0428	107 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0403	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0398	99.4 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/01/24 15:06**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHK0225	11/05/24	11/09/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/01/24 15:06**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	7.53	60.2 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Civitas - Aristocrat Angus 7-2-10 & 42-10 CommonFL
Project Number: 23176
Project Manager: Sam Vogt

Reported:
11/25/24 10:43

FL-E03@4'
2411023-14 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/01/24 15:06**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BHK0249	11/06/24	11/08/24	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: **11/01/24 15:06**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0200	60.0 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0213	63.9 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/01/24 15:06**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHK0479	11/11/24	11/14/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/01/24 15:06**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10 CommonFL
Project Number: 23176
Project Manager: Sam Vogt

Reported:
11/25/24 10:43

FL-E03@4'
2411023-14 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	0.784	0.200	mg/kg dry	1	BHK0720	11/14/24	11/23/24	EPA 6020B
Barium	28.8	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.72	0.400	"	"	"	"	"	"
Lead	2.93	0.200	"	"	"	"	"	"
Nickel	3.57	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	10.9	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/01/24 15:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0681	11/13/24	11/19/24	EPA 7196A	

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

Date Sampled: **11/01/24 15:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	36.6	0.0500	mg/L dry	1	BHK0515	11/11/24	11/14/24	EPA 6020B	
Magnesium	9.56	0.0500	"	"	"	"	"	"	
Sodium	83.6	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/01/24 15:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.18	0.00100	units	1	BHK0755	11/14/24	11/14/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Tasman Geosciences
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Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10 CommonFL
Project Number: 23176
Project Manager: Sam Vogt

Reported:
11/25/24 10:43

FL-E03@4'
2411023-14 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/01/24 15:06**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	83.8			%	1	BHK0346	11/07/24	11/07/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/01/24 15:06**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.610	0.0100		mmhos/cm	1	BHK0518	11/11/24	11/14/24	EPA 120.1	

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

Date Sampled: **11/01/24 15:06**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.00			pH Units	1	BHK0516	11/11/24	11/14/24	EPA 9045D	

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Project: Civitas - Aristocrat Angus 7-2-10 & 42-10 CommonFL
Project Number: 23176
Project Manager: Sam Vogt

Reported:
11/25/24 10:43

FL-W03@4'
2411023-15 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/01/24 15:08**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHK0223	11/05/24	11/08/24	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: **11/01/24 15:08**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0432	108 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0392	98.0 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0394	98.6 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/01/24 15:08**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHK0225	11/05/24	11/09/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/01/24 15:08**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	8.32	66.5 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project Number: 23176
Project Manager: Sam Vogt

Reported:
11/25/24 10:43

FL-W03@4'
2411023-15 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/01/24 15:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK0249	11/06/24	11/08/24	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: **11/01/24 15:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0226	67.9 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0247	74.1 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/01/24 15:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHK0479	11/11/24	11/14/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/01/24 15:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Civitas - Aristocrat Angus 7-2-10 & 42-10 CommonFL
Project Number: 23176
Project Manager: Sam Vogt

Reported:
11/25/24 10:43

FL-W03@4'
2411023-15 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.04	0.200	mg/kg dry	1	BHK0720	11/14/24	11/23/24	EPA 6020B
Barium	24.8	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.43	0.400	"	"	"	"	"	"
Lead	3.46	0.200	"	"	"	"	"	"
Nickel	2.59	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	10.7	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/01/24 15:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0681	11/13/24	11/19/24	EPA 7196A	

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

Date Sampled: **11/01/24 15:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	41.5	0.0500	mg/L dry	1	BHK0515	11/11/24	11/14/24	EPA 6020B	
Magnesium	10.9	0.0500	"	"	"	"	"	"	
Sodium	205	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/01/24 15:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	7.32	0.00100	units	1	BHK0755	11/14/24	11/14/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Project: Civitas - Aristocrat Angus 7-2-10 & 42-10 CommonFL
Project Number: 23176
Project Manager: Sam Vogt

Reported:
11/25/24 10:43

FL-W03@4'
2411023-15 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/01/24 15:08**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	83.9			%	1	BHK0346	11/07/24	11/07/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/01/24 15:08**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	1.15	0.0100		mmhos/cm	1	BHK0518	11/11/24	11/14/24	EPA 120.1	

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

Date Sampled: **11/01/24 15:08**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.88			pH Units	1	BHK0516	11/11/24	11/14/24	EPA 9045D	

Summit Scientific

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Project: Civitas - Aristocrat Angus 7-2-10 & 42-10 CommonFL

Project Number: 23176
Project Manager: Sam Vogt

Reported:
11/25/24 10:43

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 BHK0223 - EPA 5030 Soil MS

Blank (BHK0223-BLK1)

Prepared: 11/05/24 Analyzed: 11/07/24

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	0.0338		"	0.0400		84.5	50-150			
Surrogate: Toluene-d8	0.0398		"	0.0400		99.6	50-150			
Surrogate: 4-Bromofluorobenzene	0.0380		"	0.0400		95.1	50-150			

LCS (BHK0223-BS1)

Prepared: 11/05/24 Analyzed: 11/07/24

Benzene	0.0939	0.0020	mg/kg	0.100		93.9	70-130			
Toluene	0.0995	0.0050	"	0.100		99.5	70-130			
Ethylbenzene	0.100	0.0050	"	0.100		100	70-130			
m,p-Xylene	0.200	0.010	"	0.200		99.9	70-130			
o-Xylene	0.0974	0.0050	"	0.100		97.4	70-130			
1,2,4-Trimethylbenzene	0.0958	0.0050	"	0.100		95.8	70-130			
1,3,5-Trimethylbenzene	0.0950	0.0050	"	0.100		95.0	70-130			
Naphthalene	0.0881	0.0038	"	0.100		88.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0360		"	0.0400		90.1	50-150			
Surrogate: Toluene-d8	0.0394		"	0.0400		98.6	50-150			
Surrogate: 4-Bromofluorobenzene	0.0373		"	0.0400		93.2	50-150			

Matrix Spike (BHK0223-MS1)

Source: 2411013-01

Prepared: 11/05/24 Analyzed: 11/07/24

Benzene	0.0802	0.0020	mg/kg	0.100	ND	80.2	70-130			
Toluene	0.0858	0.0050	"	0.100	ND	85.8	70-130			
Ethylbenzene	0.0934	0.0050	"	0.100	ND	93.4	70-130			
m,p-Xylene	0.185	0.010	"	0.200	ND	92.4	70-130			
o-Xylene	0.0902	0.0050	"	0.100	ND	90.2	70-130			
1,2,4-Trimethylbenzene	0.0874	0.0050	"	0.100	ND	87.4	70-130			
1,3,5-Trimethylbenzene	0.0884	0.0050	"	0.100	ND	88.4	70-130			
Naphthalene	0.0809	0.0038	"	0.100	ND	80.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0361		"	0.0400		90.2	50-150			
Surrogate: Toluene-d8	0.0391		"	0.0400		97.7	50-150			
Surrogate: 4-Bromofluorobenzene	0.0384		"	0.0400		96.0	50-150			

Summit Scientific

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Project: Civitas - Aristocrat Angus 7-2-10 & 42-10 CommonFL

Project Number: 23176
Project Manager: Sam Vogt

Reported:
11/25/24 10:43

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 BHK0223 - EPA 5030 Soil MS

Matrix Spike Dup (BHK0223-MSD1)	Source: 2411013-01			Prepared: 11/05/24 Analyzed: 11/07/24						
Benzene	0.0800	0.0020	mg/kg	0.100	ND	80.0	70-130	0.262	30	
Toluene	0.0863	0.0050	"	0.100	ND	86.3	70-130	0.593	30	
Ethylbenzene	0.0963	0.0050	"	0.100	ND	96.3	70-130	3.04	30	
m,p-Xylene	0.192	0.010	"	0.200	ND	95.8	70-130	3.65	30	
o-Xylene	0.0926	0.0050	"	0.100	ND	92.6	70-130	2.66	30	
1,2,4-Trimethylbenzene	0.0902	0.0050	"	0.100	ND	90.2	70-130	3.14	30	
1,3,5-Trimethylbenzene	0.0905	0.0050	"	0.100	ND	90.5	70-130	2.41	30	
Naphthalene	0.0803	0.0038	"	0.100	ND	80.3	70-130	0.707	30	
Surrogate: 1,2-Dichloroethane-d4	0.0374		"	0.0400		93.4	50-150			
Surrogate: Toluene-d8	0.0395		"	0.0400		98.7	50-150			
Surrogate: 4-Bromofluorobenzene	0.0387		"	0.0400		96.8	50-150			

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10 CommonFL
Project Number: 23176
Project Manager: Sam Vogt

Reported:
11/25/24 10:43

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 BHK0225 - EPA 3550A

Blank (BHK0225-BLK1)

Prepared: 11/05/24 Analyzed: 11/08/24

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	12.4		"	12.5		99.0	30-150			

LCS (BHK0225-BS1)

Prepared: 11/05/24 Analyzed: 11/08/24

C10-C28 (DRO)	446	50	mg/kg	500		89.2	70-130			
Surrogate: o-Terphenyl	12.3		"	12.5		98.7	30-150			

Matrix Spike (BHK0225-MS1)

Source: 2411013-01

Prepared: 11/05/24 Analyzed: 11/08/24

C10-C28 (DRO)	511	50	mg/kg	500	ND	102	70-130			
Surrogate: o-Terphenyl	12.8		"	12.5		102	30-150			

Matrix Spike Dup (BHK0225-MSD1)

Source: 2411013-01

Prepared: 11/05/24 Analyzed: 11/08/24

C10-C28 (DRO)	423	50	mg/kg	500	ND	84.6	70-130	18.9	20	
Surrogate: o-Terphenyl	11.0		"	12.5		87.7	30-150			

Summit Scientific

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Tasman Geosciences
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Project: Civitas - Aristocrat Angus 7-2-10 & 42-10 CommonFL
Project Number: 23176
Project Manager: Sam Vogt

Reported:
11/25/24 10:43

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 BHK0249 - EPA 5030 Soil MS

Blank (BHK0249-BLK1)

Prepared: 11/06/24 Analyzed: 11/07/24

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	0.0208		"	0.0333		62.5	40-140			
Surrogate: Fluoranthene-d10	0.0229		"	0.0333		68.6	40-140			

LCS (BHK0249-BS1)

Prepared: 11/06/24 Analyzed: 11/07/24

Acenaphthene	0.0266	0.00500	mg/kg	0.0333		79.7	40-140			
Anthracene	0.0211	0.00500	"	0.0333		63.2	40-140			
Benzo (a) anthracene	0.0210	0.00500	"	0.0333		62.9	40-140			
Benzo (a) pyrene	0.0201	0.00500	"	0.0333		60.4	40-140			
Benzo (b) fluoranthene	0.0206	0.00500	"	0.0333		61.8	40-140			
Benzo (k) fluoranthene	0.0202	0.00500	"	0.0333		60.6	40-140			
Chrysene	0.0212	0.00500	"	0.0333		63.6	40-140			
Dibenz (a,h) anthracene	0.0176	0.00500	"	0.0333		52.8	40-140			
Fluoranthene	0.0219	0.00500	"	0.0333		65.8	40-140			
Fluorene	0.0277	0.00500	"	0.0333		83.0	40-140			
Indeno (1,2,3-cd) pyrene	0.0138	0.00500	"	0.0333		41.3	40-140			
Pyrene	0.0201	0.00500	"	0.0333		60.4	40-140			
1-Methylnaphthalene	0.0202	0.00500	"	0.0333		60.6	40-140			
2-Methylnaphthalene	0.0201	0.00500	"	0.0333		60.4	40-140			
Surrogate: 2-Methylnaphthalene-d10	0.0198		"	0.0333		59.3	40-140			
Surrogate: Fluoranthene-d10	0.0222		"	0.0333		66.7	40-140			

Summit Scientific

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Project: Civitas - Aristocrat Angus 7-2-10 & 42-10 CommonFL
Project Number: 23176
Project Manager: Sam Vogt

Reported:
11/25/24 10:43

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 BHK0249 - EPA 5030 Soil MS

Matrix Spike (BHK0249-MS1)

Source: 2411023-01

Prepared: 11/06/24 Analyzed: 11/07/24

Acenaphthene	0.0226	0.00500	mg/kg	0.0333	ND	67.9	40-140
Anthracene	0.0199	0.00500	"	0.0333	ND	59.7	40-140
Benzo (a) anthracene	0.0199	0.00500	"	0.0333	ND	59.6	40-140
Benzo (a) pyrene	0.0187	0.00500	"	0.0333	ND	56.0	40-140
Benzo (b) fluoranthene	0.0195	0.00500	"	0.0333	ND	58.5	40-140
Benzo (k) fluoranthene	0.0189	0.00500	"	0.0333	ND	56.7	40-140
Chrysene	0.0201	0.00500	"	0.0333	ND	60.4	40-140
Dibenz (a,h) anthracene	0.0181	0.00500	"	0.0333	ND	54.3	40-140
Fluoranthene	0.0209	0.00500	"	0.0333	ND	62.6	40-140
Fluorene	0.0225	0.00500	"	0.0333	ND	67.5	40-140
Indeno (1,2,3-cd) pyrene	0.0135	0.00500	"	0.0333	ND	40.6	40-140
Pyrene	0.0196	0.00500	"	0.0333	ND	58.8	40-140
1-Methylnaphthalene	0.0202	0.00500	"	0.0333	ND	60.6	40-140
2-Methylnaphthalene	0.0201	0.00500	"	0.0333	ND	60.4	40-140
Surrogate: 2-Methylnaphthalene-d10	0.0193	"		0.0333		57.9	40-140
Surrogate: Fluoranthene-d10	0.0210	"		0.0333		63.0	40-140

Matrix Spike Dup (BHK0249-MSD1)

Source: 2411023-01

Prepared: 11/06/24 Analyzed: 11/07/24

Acenaphthene	0.0265	0.00500	mg/kg	0.0333	ND	79.4	40-140	15.6	30
Anthracene	0.0219	0.00500	"	0.0333	ND	65.8	40-140	9.75	30
Benzo (a) anthracene	0.0224	0.00500	"	0.0333	ND	67.2	40-140	12.1	30
Benzo (a) pyrene	0.0214	0.00500	"	0.0333	ND	64.1	40-140	13.4	30
Benzo (b) fluoranthene	0.0218	0.00500	"	0.0333	ND	65.5	40-140	11.2	30
Benzo (k) fluoranthene	0.0210	0.00500	"	0.0333	ND	62.9	40-140	10.3	30
Chrysene	0.0225	0.00500	"	0.0333	ND	67.5	40-140	11.1	30
Dibenz (a,h) anthracene	0.0204	0.00500	"	0.0333	ND	61.1	40-140	11.7	30
Fluoranthene	0.0231	0.00500	"	0.0333	ND	69.2	40-140	10.0	30
Fluorene	0.0264	0.00500	"	0.0333	ND	79.2	40-140	15.9	30
Indeno (1,2,3-cd) pyrene	0.0162	0.00500	"	0.0333	ND	48.7	40-140	18.3	30
Pyrene	0.0220	0.00500	"	0.0333	ND	65.9	40-140	11.3	30
1-Methylnaphthalene	0.0214	0.00500	"	0.0333	ND	64.1	40-140	5.57	30
2-Methylnaphthalene	0.0226	0.00500	"	0.0333	ND	67.8	40-140	11.6	30
Surrogate: 2-Methylnaphthalene-d10	0.0218	"		0.0333		65.5	40-140		
Surrogate: Fluoranthene-d10	0.0234	"		0.0333		70.2	40-140		

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10 CommonFL

Project Number: 23176
Project Manager: Sam Vogt

Reported:
11/25/24 10:43

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 BHK0479 - EPA 3050B

Blank (BHK0479-BLK1)

Prepared: 11/11/24 Analyzed: 11/13/24

Boron ND 2.00 mg/L

LCS (BHK0479-BS1)

Prepared: 11/11/24 Analyzed: 11/13/24

Boron 5.11 2.00 mg/L 5.00 102 80-120

Duplicate (BHK0479-DUP1)

Source: 2411022-09

Prepared: 11/11/24 Analyzed: 11/13/24

Boron 0.170 2.00 mg/L 0.204 18.5 20

Matrix Spike (BHK0479-MS1)

Source: 2411022-09

Prepared: 11/11/24 Analyzed: 11/13/24

Boron 5.22 2.00 mg/L 5.00 0.204 100 75-125

Matrix Spike Dup (BHK0479-MSD1)

Source: 2411022-09

Prepared: 11/11/24 Analyzed: 11/13/24

Boron 5.41 2.00 mg/L 5.00 0.204 104 75-125 3.60 25

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10 CommonFL
Project Number: 23176
Project Manager: Sam Vogt

Reported:
11/25/24 10:43

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 BHK0720 - EPA 3050B

Blank (BHK0720-BLK1)

Prepared: 11/14/24 Analyzed: 11/23/24

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 (BHK0720-BS1)

Prepared: 11/14/24 Analyzed: 11/23/24

Arsenic	36.6	0.200	mg/kg wet	39.7	92.1	80-120
Barium	35.5	0.400	"	39.7	89.5	80-120
Cadmium	1.80	0.200	"	1.98	90.5	80-120
Copper	35.6	0.400	"	39.7	89.8	80-120
Lead	17.6	0.200	"	19.8	88.8	80-120
Nickel	36.0	0.400	"	39.7	90.7	80-120
Silver	1.97	0.0200	"	1.98	99.1	80-120
Zinc	36.3	0.400	"	39.7	91.5	80-120
Selenium	4.06	0.260	"	3.97	102	80-120

Duplicate (BHK0720-DUP1)

Source: 2411013-01

Prepared: 11/14/24 Analyzed: 11/23/24

Arsenic	1.16	0.200	mg/kg dry	1.05	9.98	20
Barium	22.1	0.400	"	18.0	20.5	20
Cadmium	0.0679	0.200	"	0.0599	12.6	20
Copper	2.15	0.400	"	1.89	13.2	20
Lead	1.78	0.200	"	1.89	5.94	20
Nickel	2.22	0.400	"	2.07	6.98	20
Silver	0.0103	0.0200	"	0.0111	7.17	20
Zinc	7.55	0.400	"	6.94	8.53	20
Selenium	ND	0.260	"	ND		20

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Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10 CommonFL
Project Number: 23176
Project Manager: Sam Vogt

Reported:
11/25/24 10:43

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 BHK0720 - EPA 3050B

Matrix Spike (BHK0720-MS1)		Source: 2411013-01			Prepared: 11/14/24 Analyzed: 11/23/24					
Arsenic	37.8	0.200	mg/kg dry	42.1	1.05	87.4	75-125			
Barium	54.5	0.400	"	42.1	18.0	86.8	75-125			
Cadmium	1.91	0.200	"	2.10	0.0599	88.1	75-125			
Copper	39.0	0.400	"	42.1	1.89	88.3	75-125			
Lead	19.9	0.200	"	21.0	1.89	85.9	75-125			
Nickel	38.6	0.400	"	42.1	2.07	86.9	75-125			
Silver	2.92	0.0200	"	2.10	0.0111	138	75-125			QM-05
Zinc	44.2	0.400	"	42.1	6.94	88.5	75-125			
Selenium	3.96	0.260	"	4.21	ND	94.1	75-125			

Matrix Spike Dup (BHK0720-MSD1)		Source: 2411013-01			Prepared: 11/14/24 Analyzed: 11/23/24					
Arsenic	38.6	0.200	mg/kg dry	41.1	1.05	91.5	75-125	2.11	25	
Barium	51.0	0.400	"	41.1	18.0	80.3	75-125	6.64	25	
Cadmium	1.95	0.200	"	2.05	0.0599	91.9	75-125	1.77	25	
Copper	40.8	0.400	"	41.1	1.89	94.9	75-125	4.50	25	
Lead	20.1	0.200	"	20.5	1.89	88.6	75-125	0.676	25	
Nickel	39.5	0.400	"	41.1	2.07	91.2	75-125	2.28	25	
Silver	2.91	0.0200	"	2.05	0.0111	141	75-125	0.188	25	QM-05
Zinc	46.2	0.400	"	41.1	6.94	95.7	75-125	4.50	25	
Selenium	4.11	0.260	"	4.11	ND	100	75-125	3.73	25	

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Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10 CommonFL
Project Number: 23176
Project Manager: Sam Vogt

Reported:
11/25/24 10:43

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 BHK0681 - 3060A Mod

Blank (BHK0681-BLK1)

Prepared: 11/13/24 Analyzed: 11/19/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHK0681-BS1)

Prepared: 11/13/24 Analyzed: 11/19/24

Chromium, Hexavalent 26.0 0.30 mg/kg wet 25.0 104 80-120

Duplicate (BHK0681-DUP1)

Source: 2411022-01

Prepared: 11/13/24 Analyzed: 11/19/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHK0681-MS1)

Source: 2411022-01

Prepared: 11/13/24 Analyzed: 11/19/24

Chromium, Hexavalent 27.8 0.30 mg/kg dry 27.1 ND 103 75-125

Matrix Spike Dup (BHK0681-MSD1)

Source: 2411022-01

Prepared: 11/13/24 Analyzed: 11/19/24

Chromium, Hexavalent 27.7 0.30 mg/kg dry 27.1 ND 102 75-125 0.587 20

Summit Scientific

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10 CommonFL
Project Number: 23176
Project Manager: Sam Vogt

Reported:
11/25/24 10:43

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 BHK0515 - General Preparation

Blank (BHK0515-BLK1)

Prepared: 11/11/24 Analyzed: 11/14/24

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

LCS (BHK0515-BS1)

Prepared: 11/11/24 Analyzed: 11/14/24

Calcium	5.01	0.0500	mg/L wet	5.00	100	70-130
Magnesium	5.11	0.0500	"	5.00	102	70-130
Sodium	5.21	0.0500	"	5.00	104	70-130

Summit Scientific

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10 CommonFL

Project Number: 23176
Project Manager: Sam Vogt

Reported:
11/25/24 10:43

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 BHK0346 - General Preparation

Duplicate (BHK0346-DUP1)		Source: 2411021-01		Prepared & Analyzed: 11/07/24						
% Solids	91.2		%		90.5			0.707	20	

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Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10 CommonFL
Project Number: 23176
Project Manager: Sam Vogt

Reported:
11/25/24 10:43

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 BHK0518 - General Preparation

Blank (BHK0518-BLK1)

Prepared: 11/11/24 Analyzed: 11/14/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHK0518-BS1)

Prepared: 11/11/24 Analyzed: 11/14/24

Specific Conductance (EC) 0.152 0.0100 mmhos/cm 0.150 102 95-105

Duplicate (BHK0518-DUP1)

Source: 2411023-01

Prepared: 11/11/24 Analyzed: 11/14/24

Specific Conductance (EC) 0.0832 0.0100 mmhos/cm 0.0847 1.72 20

Summit Scientific

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10 CommonFL

Project Number: 23176
Project Manager: Sam Vogt

Reported:
11/25/24 10:43

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 BHK0516 - General Preparation

LCS (BHK0516-BS1)

Prepared: 11/11/24 Analyzed: 11/14/24

pH	9.27	pH Units	9.18	101	95-105
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Duplicate (BHK0516-DUP1)

Source: 2411023-01

Prepared: 11/11/24 Analyzed: 11/14/24

pH	7.52	pH Units	7.75	3.01	20
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Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10 CommonFL

Project Number: 23176
Project Manager: Sam Vogt

Reported:
11/25/24 10:43

Notes and Definitions

QR-04	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
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