

Aristocrat Angus 31-4

NWNE Sec. 4-T3N-R65W

API #: 123-13661

Remediation Project #: 22922

Spill/Release Information Package

November 2022

Prepared by Tasman, Inc.



On behalf of Crestone Peak Resources Operating, LLC



FIELD NOTES AND PHOTO LOG



Photographic Log

Material:	Volume:	Contents:	Material:	Volume:	Contents:
Notes/Conditions: Soil sampling and screening locations, facing north			Notes/Conditions: Soil sampling and screening locations, facing south		



Photographic Log

					
<p>Equipment ID: Equipment Type:</p> <p>Material: Volume: Contents:</p> <p>Notes/Conditions: Background location to the southeast of the wellhead, facing north</p>					



Photographic Log

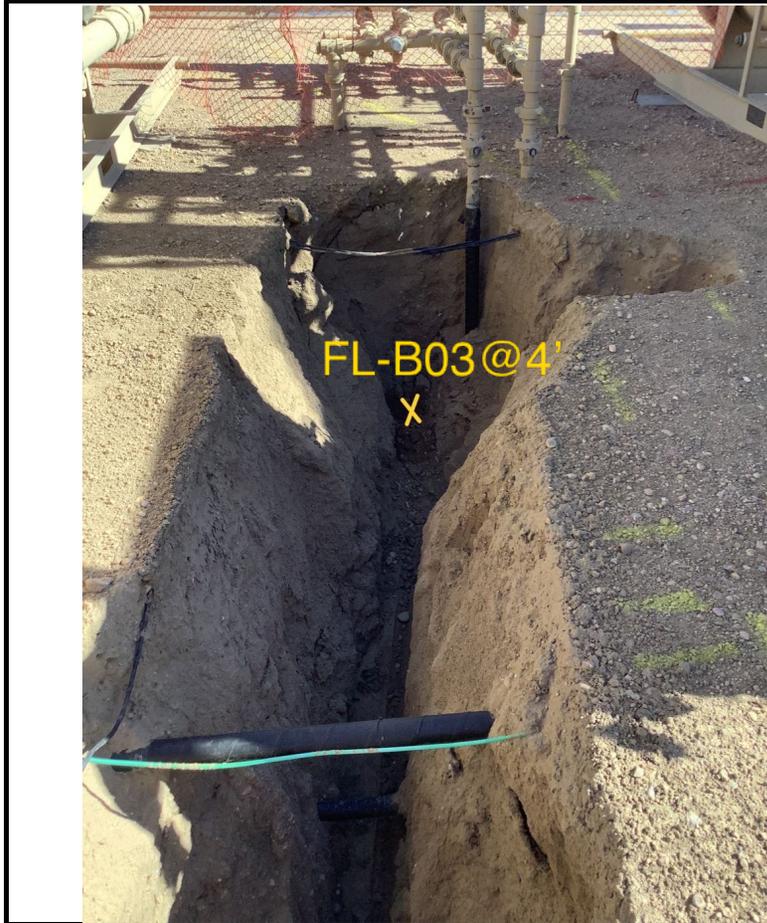


Equipment ID:		Equipment Type:	
Material:	Volume:	Contents:	
Notes/Conditions: Soil sampling location, facing east			

Equipment ID:		Equipment Type:	
Material:	Volume:	Contents:	
Notes/Conditions: Soil screening location			



Photographic Log



Equipment ID:		Equipment Type:	
Material:	Volume:	Contents:	
Notes/Conditions: Soil sampling location, facing east			

Equipment ID:		Equipment Type:	
Material:	Volume:	Contents:	
Notes/Conditions: Background location to the east of TB pad			



Photographic Log

					
<p>Equipment ID: _____ Equipment Type: _____</p> <p>Material: _____ Volume: _____ Contents: _____</p> <p>Notes/Conditions: Surroundings to the south</p>			<p>Equipment ID: _____ Equipment Type: _____</p> <p>Material: _____ Volume: _____ Contents: _____</p> <p>Notes/Conditions: Surroundings to the south</p>		



Photographic Log

					
Equipment ID:		Equipment Type:	Equipment ID:		Equipment Type:
Material:	Volume:	Contents:	Material:	Volume:	Contents:
Notes/Conditions: Surroundings to the east			Notes/Conditions: Surroundings to the west		



Photographic Log

Equipment ID:		Equipment Type:	Equipment ID:		Equipment Type:
Material:	Volume:	Contents:	Material:	Volume:	Contents:
Notes/Conditions: Pivot irrigation east of the WH excavation, facing east			Notes/Conditions:		

FIGURES

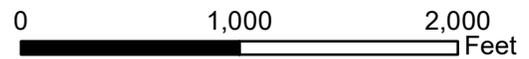
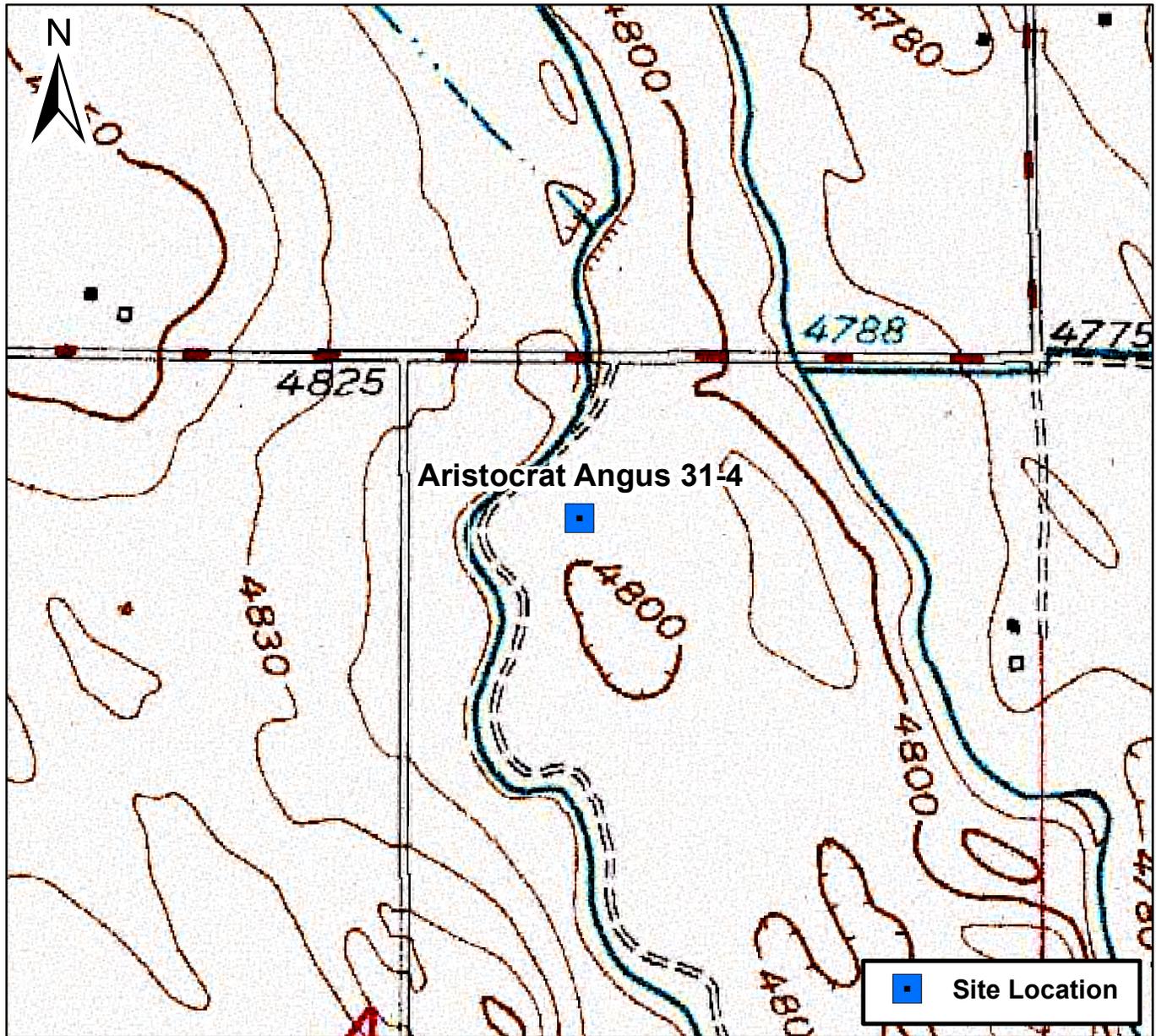


Figure 1

Site Location Map
 Aristocrat Angus 31-4
 NWNE Sec. 4-T3N-R65W
 Weld County, Colorado





Legend

- Soil Sample Location (Collected via Trimble GPS)
- Soil Sample Location - Lab Analyzed (Collected via Trimble GPS)
- Excavation Extent (Collected via Trimble GPS)
- Approximate Flowline Location

Notes:

All locations are approximate unless otherwise noted.

N

0 10 20 Feet

Imagery Source: Google Earth 2021

DATE:	November 2022
DESIGNED BY:	S. Vogt
DRAWN BY:	L. Reed



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

Crestone Peak Resources Operating, LLC
 Aristocrat Angus 31-4
 NWNE Sec. 4-T3N-R65W
 Weld County, Colorado

Soil Sample
 Location Map
 (11/01/2022)

Figure
 2A



DATE:	November 2022
DESIGNED BY:	S. Vogt
DRAWN BY:	L. Reed


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

Crestone Peak Resources Operating, LLC
Aristocrat Angus 31-4
 NWNE Sec. 4-T3N-R65W
 Weld County, Colorado

Soil Sample
 Location Map
 (11/01/2022)

Figure
2B

TABLES

TABLE 1
ARISTOCRAT ANGUS 31-4
SOIL SAMPLE LOCATIONS



CRESTONE PEAK RESOURCES OPERATING, LLC

Soil Sample Location	Date	PID Reading (ppm)	Visual Observation	Olfactory Observation	Latitude	Longitude	GPS PDOP Value	Lab (Y/N)
BG01@10'	11/01/2022	0.2	No Staining	No Odor	40.259662	-104.665508	1	Y
BG01@4'	11/01/2022	0	No Staining	No Odor	40.259662	-104.665508	1	Y
BG02@4'	11/01/2022	0.4	No Staining	No Odor	40.259473	-104.663363	1	Y
FL-B01@4'	11/01/2022	0.5	No Staining	No Odor	40.259807	-104.665545	1.1	Y
FL-B02@4'	11/01/2022	3.2	No Staining	No Odor	40.259730	-104.664711	1.1	N
FL-B03@4'	11/01/2022	0.3	No Staining	No Odor	40.259682	-104.663741	1.2	Y
SP-CS01	11/01/2022	-	No Staining	No Odor	-	-	-	Y
SP-CS02	11/01/2022	-	HC Staining	No Odor	-	-	-	Y
SP-CS03	11/01/2022	-	No Staining	No Odor	-	-	-	Y
WH-B01@10'	11/01/2022	324.8	HC Staining	Slight HC Odor	40.259809	-104.665592	1.2	Y
WH-E01@9'	11/01/2022	396.9	HC Staining	Slight HC Odor	40.259816	-104.665578	1.1	Y
WH-N01@9'	11/01/2022	145.1	HC Staining	Slight HC Odor	40.259824	-104.665585	1.1	N
WH-S01@9'	11/01/2022	1.2	No Staining	No Odor	40.259797	-104.665598	1.1	N
WH-W01@9'	11/01/2022	1.9	No Staining	No Odor	40.259805	-104.665603	1.1	N

Notes:

- PID = Photoionization detector
- ppm = Parts per million
- HC = Hydrocarbon
- GPS = Global positioning system
- PDOP = Position dilution of precision
- = Not Applicable

TABLE 2
ARISTOCRAT ANGUS 31-4
SOIL ANALYTICAL DATA - VOCs
CRESTONE PEAK RESOURCES OPERATING, LLC

Soil Sample Location	Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Naphthalene (mg/kg)	TVPH-GRO (mg/kg)	TEPH-DRO (mg/kg)	TEPH-ORO (mg/kg)	1,2,4-TMB (mg/kg)	1,3,5-TMB (mg/kg)
COGCC standards for soil (mg/kg) ⁽¹⁾		0.0026	0.69	0.78	9.9	0.0038	500			0.0081	0.0087
COGCC standards for soil (mg/kg) ⁽²⁾		1.2	490	5.8	58	2	500			30	27
FL-B01@4'	11/01/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
FL-B03@4'	11/01/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
SP-CS01	11/01/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	0.53	<50	<50	<0.0050	<0.0050
SP-CS02	11/01/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	0.55	75	<50	<0.0050	<0.0050
SP-CS03	11/01/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
WH-B01@10'	11/01/2022	<0.0020	<0.0050	<0.0050	<0.010	0.0049	52	200	<50	<0.0050	0.037
WH-E01@9'	11/01/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	11	590	<50	<0.0050	<0.0050

Notes:

VOCs = Volatile Organic Compounds

(1) Standards for soil are taken from COGCC Table 915-1: Protection of Groundwater Soil Screening Level Concentrations, effective January 15, 2021

(2) Standards for soil are taken from COGCC Table 915-1: Residential Soil Screening Level Concentrations, effective January 15, 2021

COGCC = Colorado Oil and Gas Conservation Commission

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

mg/kg = Milligrams per kilogram

TVPH - GRO = Total volatile petroleum hydrocarbons - gasoline range organics

TEPH - DRO = Total extractable petroleum hydrocarbons - diesel range organics

TEPH - ORO = Total extractable petroleum hydrocarbons - oil range organics

1,2,4 - TMB = 1,2,4 - Trimethylbenzene

1,3,5 - TMB = 1,3,5 - Trimethylbenzene

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

TABLE 3
ARISTOCRAT ANGUS 31-4
SOIL ANALYTICAL DATA - PAHs
CRESTONE PEAK RESOURCES OPERATING, LLC

Soil Sample Location	Date	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo(a)A (mg/kg)	Benzo(b)F (mg/kg)	Benzo(k)F (mg/kg)	Benzo(a)P (mg/kg)	Chrysene (mg/kg)	D (a,h) A (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	1,2,3-CD (mg/kg)	1-M (mg/kg)	2-M (mg/kg)	Pyrene (mg/kg)
COGCC standards for soil (mg/kg) ⁽¹⁾		0.55	5.8	0.011	0.3	2.9	0.24	9	0.96	8.9	0.54	0.98	0.006	0.019	1.3
COGCC standards for soil (mg/kg) ⁽²⁾		360	1,800	1.1	1.1	11	0.11	110	0.11	240	240	1.1	18	24	180
WH-B01@10'	11/01/2022	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending
WH-E01@9'	11/01/2022	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending

Notes:

PAHs = Polycyclic Aromatic Hydrocarbons

(1) Standards for soil are taken from COGCC Table 915-1: Protection of Groundwater Soil Screening Level Concentrations, effective January 15, 2021

(2) Standards for soil are taken from COGCC Table 915-1: Residential Soil Screening Level Concentrations, effective January 15, 2021

COGCC = Colorado Oil and Gas Conservation Commission

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

mg/kg = Milligrams per kilogram

Benzo(a)A = Benzo(a)anthracene

Benzo(b)F = Benzo(b)fluoranthene

Benzo(k)F = Benzo(k)fluoranthene

Benzo(a)P = Benzo(a)pyrene

D (a,h) A = Dibenz(a,h)anthracene

1,2,3-CD = Indeno(1,2,3-cd)pyrene

1-M = 1-Methylnaphthalene

2-M = 2-Methylnaphthalene

Pending = Analytical results pending final laboratory reporting

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

TABLE 4
ARISTOCRAT ANGUS 31-4
SOIL ANALYTICAL DATA - METALS
CRESTONE PEAK RESOURCES OPERATING, LLC

Soil Sample Location	Date	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
COGCC standards for soil (mg/kg)⁽¹⁾		0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
COGCC standards for soil (mg/kg)⁽²⁾		0.68	15,000	71	0.3	3,100	400	1,500	390	390	23,000
WH-B01@10'	11/01/2022	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending
WH-E01@9'	11/01/2022	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending
BACKGROUND											
BG01@10'	11/01/2022	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending

Notes:

(1) Standards for soil are taken from COGCC Table 915-1: Protection of Groundwater Soil Screening Level Concentrations, effective January 15, 2021

(2) Standards for soil are taken from COGCC Table 915-1: Residential Soil Screening Level Concentrations, effective January 15, 2021

COGCC = Colorado Oil and Gas Conservation Commission

(<) = Analytical result is less than the indicated laboratory minimum detection limit

mg/kg = Milligrams per kilogram

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

Italics = Laboratory minimum detection limit exceeds the COGCC Table 915-1 standard

NA = Constituent not analyzed

Pending = Analytical results pending final laboratory reporting

* Result exceeded the COGCC Table 915-1 standard, but was within range of site-specific background concentrations

TABLE 5
ARISTOCRAT ANGUS 31-4



SOIL ANALYTICAL DATA - SOIL RECLAMATION
CRESTONE PEAK RESOURCES OPERATING, LLC

Soil Sample Location	Date	pH	SAR	EC (mmhos/cm)	Boron (mg/L)
COGCC standards for soil (mg/kg) ⁽¹⁾		6 - 8.3	< 6	< 4	2
FL-B01@4'	11/01/2022	8.16	4.08	0.944	0.140
FL-B03@4'	11/01/2022	8.11	0.122	0.333	0.0304
WH-B01@10'	11/01/2022	8.07	2.57	0.752	0.0548
WH-E01@9'	11/01/2022	7.55	0.812	1.98	0.0705
BACKGROUND					
BG01@10'	11/01/2022	7.92	2.86	1.78	0.0798
BG01@4'	11/01/2022	8.19	3.31	0.702	0.294
BG02@4'	11/01/2022	7.35	0.107	0.109	0.0281

Notes:

(1) Standards for soil are taken from COGCC Table 915-1, effective January 15, 2021

COGCC = Colorado Oil and Gas Conservation Commission

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

mmhos/cm = Millmhos per centimeter

mg/L = Milligrams per liter

SAR = Sodium Adsorption Ratio

EC = Electrical Conductivity

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

* Result exceeded the COGCC Table 915-1 standard, but was within background levels

LABORATORY ANALYTICAL DATA

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

November 07, 2022

Sam Vogt
Civitas Resources
650 Southgate Drive
Windsor, CO 80550

RE: Aristocrat Angus 31-4 WH & FL

Work Order #2211017

Enclosed are the results of analyses for samples received by Summit Scientific on 11/01/22 17:43. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mikayla Axtell For Paul Shrewsbury
President



Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Aristocrat Angus 31-4 WH & FL

Project Number: AFE #22065
Project Manager: Sam Vogt

Reported:
11/07/22 13:36

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-B01@10'	2211017-01	Soil	11/01/22 11:30	11/01/22 17:43
WH-E01@9'	2211017-02	Soil	11/01/22 11:36	11/01/22 17:43
SP-CS01	2211017-03	Soil	11/01/22 11:45	11/01/22 17:43
SP-CS02	2211017-04	Soil	11/01/22 11:50	11/01/22 17:43
FL-B01@4'	2211017-05	Soil	11/01/22 12:10	11/01/22 17:43
FL-B03@4'	2211017-06	Soil	11/01/22 12:20	11/01/22 17:43
SP-CS03	2211017-07	Soil	11/01/22 12:25	11/01/22 17:43
BG01@4'	2211017-08	Soil	11/01/22 12:30	11/01/22 17:43
BG01@10'	2211017-09	Soil	11/01/22 12:32	11/01/22 17:43
BG02@4'	2211017-10	Soil	11/01/22 12:35	11/01/22 17:43

Summit Scientific

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

Summit Scientific

2211017

741 Corporate Circle Suite I ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933 Fax

Page 1 of 1

Client: CIVITAS/Tasman
Address: 6855 W. 119th St
City/State/Zip: Broomfield, CO 80020
Phone: 610-405-9078 Fax:
Sampler Name: Sierra Knylo & Dylan Miller

Project Manager: Sam Vogt, Jacob Evans
E-Mail: svogt@tasmangeo.com, jevanse@civiresources.com
Project Name: Aristocrat Anlys 31-4 WH & FL
Project Number: AFF # 22065

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix		Analyze For: <u>Table 915</u>							Special Instructions		
				HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	BTEXN	TMS	TPH	PH*	EC*		SAR*	Boron**
WH-B01e10'	11-1-22	1130	2			X			X				X	X	X	X	X		
WH-E01e9'		1136	2										X	X	X	X	X		
SP-CS01		1145	1										X	X	X	X	X		
SP-CS02		1150	1										X	X	X	X	X		
FL-B01e4'		1210	2										X	X	X	X	X		
FL-B03e4'		1220	2										X	X	X	X	X		
SP-CS03		1225	1										X	X	X	X	X		
BG01e4'		1230	2											X	X	X	X		
BG01e10'		1232	2											X	X	X	X		
BG02e4'		1235	2											X	X	X	X		
Relinquished by: <u>[Signature]</u>		Date/Time: <u>11-1-22 1430</u>		Received by: <u>[Signature]</u>		Date/Time: <u>11-1-22 1430</u>		Turn Around Time (Check)				Notes:							
								Same Day <input type="checkbox"/>				*Sat. paste							
								24 Hours <input type="checkbox"/>				**hot water							
								48 Hours <input type="checkbox"/>				Standard <input checked="" type="checkbox"/>							
Relinquished by: <u>[Signature]</u>		Date/Time: <u>11-1-22 1510</u>		Received by: <u>TASMAN Lockbox</u>		Date/Time: <u>11-1-22 1510</u>		Sample Integrity:											
Relinquished by: <u>Tasman Lockbox</u>		Date/Time: <u>11/22 1743</u>		Received in Lab by: <u>[Signature]</u>		Date/Time: <u>11/22 1743</u>		Temperature Upon Receipt: <u>8.1</u>											
								Intact: Yes <input type="checkbox"/> No <input type="checkbox"/>											

S₂

S2 Work Order# 2211017

Sample Receipt Checklist

Client: Civitas/Rasmussen Client Project ID: Architect Angus 31-4 W/H+FL

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

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

Temp (°C) Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽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"/>	ON ICE
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 type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Comments (if any):

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

[Signature]
Custodian Printed Name

11-1-22 1743
Date/Time



Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Aristocrat Angus 31-4 WH & FL

Project Number: AFE #22065
Project Manager: Sam Vogt

Reported:
11/07/22 13:36

WH-B01@10'
2211017-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/01/22 11:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BFK0080	11/03/22	11/04/22	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.037	0.0050		"	"	"	"	"	"	
Naphthalene	0.0049	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	52	0.50		"	"	"	"	"	"	

Date Sampled: **11/01/22 11:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		70.6 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		110 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		315 %		50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/01/22 11:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	200	50		mg/kg	1	BFK0082	11/03/22	11/05/22	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **11/01/22 11:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl		76.5 %		30-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Summit Scientific

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



Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Aristocrat Angus 31-4 WH & FL

Project Number: AFE #22065
Project Manager: Sam Vogt

Reported:
11/07/22 13:36

WH-B01@10'
2211017-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/01/22 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0548	0.0100	mg/L	1	BFK0103	11/03/22	11/03/22	EPA 6020B	

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

Date Sampled: **11/01/22 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	39.7	0.0577	mg/L dry	1	BFK0048	11/02/22	11/03/22	EPA 6020B	
Magnesium	12.9	0.0577	"	"	"	"	"	"	
Sodium	73.0	0.0577	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/01/22 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.57	0.00100	units	1	BFK0167	11/07/22	11/07/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/01/22 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.7		%	1	BFK0071	11/02/22	11/02/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/01/22 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.752	0.0100	mmhos/cm	1	BFK0102	11/03/22	11/03/22	EPA 120.1	

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

Summit Scientific

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



Civitas Resources
 650 Southgate Drive
 Windsor CO, 80550

Project: Aristocrat Angus 31-4 WH & FL

Project Number: AFE #22065
 Project Manager: Sam Vogt

Reported:
 11/07/22 13:36

WH-B01@10'
2211017-01 (Soil)

Summit Scientific

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

Date Sampled: **11/01/22 11:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.07		pH Units	1	BFK0101	11/03/22	11/03/22	EPA 9045D	

Summit Scientific

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





Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Aristocrat Angus 31-4 WH & FL

Project Number: AFE #22065
Project Manager: Sam Vogt

Reported:
11/07/22 13:36

WH-E01@9'
2211017-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/01/22 11:36**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFK0080	11/03/22	11/04/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	11	0.50	"	"	"	"	"	"	

Date Sampled: **11/01/22 11:36**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		92.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		125 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		179 %	50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/01/22 11:36**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	590	50	mg/kg	1	BFK0082	11/03/22	11/05/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/01/22 11:36**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		81.2 %	30-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Summit Scientific

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



Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Aristocrat Angus 31-4 WH & FL

Project Number: AFE #22065
Project Manager: Sam Vogt

Reported:
11/07/22 13:36

WH-E01@9'
2211017-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/01/22 11:36**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0705	0.0100	mg/L	1	BFK0103	11/03/22	11/03/22	EPA 6020B	

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

Date Sampled: **11/01/22 11:36**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	276	0.0574	mg/L dry	1	BFK0048	11/02/22	11/03/22	EPA 6020B	
Magnesium	84.4	0.0574	"	"	"	"	"	"	
Sodium	60.1	0.0574	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/01/22 11:36**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.812	0.00100	units	1	BFK0167	11/07/22	11/07/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/01/22 11:36**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.1		%	1	BFK0071	11/02/22	11/02/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/01/22 11:36**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.98	0.0100	mmhos/cm	1	BFK0102	11/03/22	11/03/22	EPA 120.1	

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

Summit Scientific

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



Civitas Resources
 650 Southgate Drive
 Windsor CO, 80550

Project: Aristocrat Angus 31-4 WH & FL

Project Number: AFE #22065
 Project Manager: Sam Vogt

Reported:
 11/07/22 13:36

WH-E01@9'
2211017-02 (Soil)

Summit Scientific

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

Date Sampled: **11/01/22 11:36**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	7.55		pH Units	1	BFK0101	11/03/22	11/03/22	EPA 9045D	

Summit Scientific

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





Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Aristocrat Angus 31-4 WH & FL

Project Number: AFE #22065
Project Manager: Sam Vogt

Reported:
11/07/22 13:36

SP-CS01
2211017-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/01/22 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFK0080	11/03/22	11/04/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.53	0.50	"	"	"	"	"	"	

Date Sampled: **11/01/22 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		90.4 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		111 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		114 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/01/22 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFK0082	11/03/22	11/05/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/01/22 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		75.2 %	30-150		"	"	"	"	

Summit Scientific

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



Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Aristocrat Angus 31-4 WH & FL

Project Number: AFE #22065
Project Manager: Sam Vogt

Reported:
11/07/22 13:36

SP-CS02
2211017-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/01/22 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFK0080	11/03/22	11/04/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.55	0.50	"	"	"	"	"	"	

Date Sampled: **11/01/22 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		90.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		110 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		122 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/01/22 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	75	50	mg/kg	1	BFK0082	11/03/22	11/05/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/01/22 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		77.8 %	30-150		"	"	"	"	

Summit Scientific

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



Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Aristocrat Angus 31-4 WH & FL

Project Number: AFE #22065
Project Manager: Sam Vogt

Reported:
11/07/22 13:36

FL-B01@4'
2211017-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/01/22 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFK0080	11/03/22	11/04/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/01/22 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		84.1 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		110 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		110 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/01/22 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFK0082	11/03/22	11/05/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/01/22 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		82.5 %	30-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Summit Scientific

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



Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Aristocrat Angus 31-4 WH & FL

Project Number: AFE #22065
Project Manager: Sam Vogt

Reported:
11/07/22 13:36

FL-B01@4'
2211017-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/01/22 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.140	0.0100	mg/L	1	BFK0103	11/03/22	11/03/22	EPA 6020B	

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

Date Sampled: **11/01/22 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	35.9	0.0544	mg/L dry	1	BFK0048	11/02/22	11/03/22	EPA 6020B	
Magnesium	11.0	0.0544	"	"	"	"	"	"	
Sodium	109	0.0544	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/01/22 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.08	0.00100	units	1	BFK0167	11/07/22	11/07/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/01/22 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.9		%	1	BFK0071	11/02/22	11/02/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/01/22 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.944	0.0100	mmhos/cm	1	BFK0102	11/03/22	11/03/22	EPA 120.1	

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

Summit Scientific

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



Civitas Resources
 650 Southgate Drive
 Windsor CO, 80550

Project: Aristocrat Angus 31-4 WH & FL

Project Number: AFE #22065
 Project Manager: Sam Vogt

Reported:
 11/07/22 13:36

FL-B01@4'
2211017-05 (Soil)

Summit Scientific

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

Date Sampled: **11/01/22 12:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.16		pH Units	1	BFK0101	11/03/22	11/03/22	EPA 9045D	

Summit Scientific

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





Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Aristocrat Angus 31-4 WH & FL

Project Number: AFE #22065
Project Manager: Sam Vogt

Reported:
11/07/22 13:36

FL-B03@4'
2211017-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/01/22 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFK0080	11/03/22	11/04/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/01/22 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		91.5 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		106 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/01/22 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFK0082	11/03/22	11/05/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/01/22 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		79.5 %	30-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Summit Scientific

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



Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Aristocrat Angus 31-4 WH & FL

Project Number: AFE #22065
Project Manager: Sam Vogt

Reported:
11/07/22 13:36

FL-B03@4'
2211017-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/01/22 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0304	0.0100	mg/L	1	BFK0103	11/03/22	11/03/22	EPA 6020B	

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

Date Sampled: **11/01/22 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	40.5	0.0516	mg/L dry	1	BFK0048	11/02/22	11/03/22	EPA 6020B	
Magnesium	8.48	0.0516	"	"	"	"	"	"	
Sodium	3.27	0.0516	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/01/22 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.122	0.00100	units	1	BFK0167	11/07/22	11/07/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/01/22 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.8		%	1	BFK0071	11/02/22	11/02/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/01/22 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.333	0.0100	mmhos/cm	1	BFK0102	11/03/22	11/03/22	EPA 120.1	

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

Summit Scientific

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



Civitas Resources
 650 Southgate Drive
 Windsor CO, 80550

Project: Aristocrat Angus 31-4 WH & FL

Project Number: AFE #22065
 Project Manager: Sam Vogt

Reported:
 11/07/22 13:36

FL-B03@4'
2211017-06 (Soil)

Summit Scientific

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

Date Sampled: **11/01/22 12:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.11			pH Units	1	BFK0101	11/03/22	11/03/22	EPA 9045D	

Summit Scientific



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



Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Aristocrat Angus 31-4 WH & FL

Project Number: AFE #22065
Project Manager: Sam Vogt

Reported:
11/07/22 13:36

SP-CS03
2211017-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/01/22 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFK0080	11/03/22	11/04/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/01/22 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		83.7 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		108 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/01/22 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFK0082	11/03/22	11/05/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/01/22 12:25**

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

Summit Scientific

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



Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Aristocrat Angus 31-4 WH & FL

Project Number: AFE #22065
Project Manager: Sam Vogt

Reported:
11/07/22 13:36

BG01@4'
2211017-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/01/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.294	0.0100	mg/L	1	BFK0103	11/03/22	11/03/22	EPA 6020B	

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

Date Sampled: **11/01/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	37.8	0.0546	mg/L dry	1	BFK0048	11/02/22	11/03/22	EPA 6020B	
Magnesium	13.1	0.0546	"	"	"	"	"	"	
Sodium	92.7	0.0546	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/01/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.31	0.00100	units	1	BFK0167	11/07/22	11/07/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/01/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.6		%	1	BFK0071	11/02/22	11/02/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/01/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.702	0.0100	mmhos/cm	1	BFK0102	11/03/22	11/03/22	EPA 120.1	

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

Summit Scientific

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



Civitas Resources
 650 Southgate Drive
 Windsor CO, 80550

Project: Aristocrat Angus 31-4 WH & FL

Project Number: AFE #22065
 Project Manager: Sam Vogt

Reported:
 11/07/22 13:36

BG01@4'
2211017-08 (Soil)

Summit Scientific

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

Date Sampled: **11/01/22 12:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.19		pH Units	1	BFK0101	11/03/22	11/03/22	EPA 9045D	

Summit Scientific

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





Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Aristocrat Angus 31-4 WH & FL

Project Number: AFE #22065
Project Manager: Sam Vogt

Reported:
11/07/22 13:36

BG01@10'
2211017-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/01/22 12:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0798	0.0100	mg/L	1	BFK0103	11/03/22	11/03/22	EPA 6020B	

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

Date Sampled: **11/01/22 12:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	154	0.0602	mg/L dry	1	BFK0048	11/02/22	11/03/22	EPA 6020B	
Magnesium	73.5	0.0602	"	"	"	"	"	"	
Sodium	172	0.0602	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/01/22 12:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.86	0.00100	units	1	BFK0167	11/07/22	11/07/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/01/22 12:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.1		%	1	BFK0071	11/02/22	11/02/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/01/22 12:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.78	0.0100	mmhos/cm	1	BFK0102	11/03/22	11/03/22	EPA 120.1	

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

Summit Scientific

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



Civitas Resources
 650 Southgate Drive
 Windsor CO, 80550

Project: Aristocrat Angus 31-4 WH & FL

Project Number: AFE #22065
 Project Manager: Sam Vogt

Reported:
 11/07/22 13:36

BG01@10'
2211017-09 (Soil)

Summit Scientific

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

Date Sampled: **11/01/22 12:32**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	7.92		pH Units	1	BFK0101	11/03/22	11/03/22	EPA 9045D	

Summit Scientific



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



Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Aristocrat Angus 31-4 WH & FL

Project Number: AFE #22065
Project Manager: Sam Vogt

Reported:
11/07/22 13:36

BG02@4'
2211017-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/01/22 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0281	0.0100	mg/L	1	BFK0103	11/03/22	11/03/22	EPA 6020B	

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

Date Sampled: **11/01/22 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	92.5	0.0513	mg/L dry	1	BFK0048	11/02/22	11/03/22	EPA 6020B	
Magnesium	26.3	0.0513	"	"	"	"	"	"	
Sodium	4.53	0.0513	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/01/22 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.107	0.00100	units	1	BFK0167	11/07/22	11/07/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/01/22 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.5		%	1	BFK0071	11/02/22	11/02/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/01/22 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.109	0.0100	mmhos/cm	1	BFK0102	11/03/22	11/03/22	EPA 120.1	

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

Summit Scientific

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



Civitas Resources
 650 Southgate Drive
 Windsor CO, 80550

Project: Aristocrat Angus 31-4 WH & FL

Project Number: AFE #22065
 Project Manager: Sam Vogt

Reported:
 11/07/22 13:36

BG02@4'
2211017-10 (Soil)

Summit Scientific

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

Date Sampled: **11/01/22 12:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	7.35		pH Units	1	BFK0101	11/03/22	11/03/22	EPA 9045D	

Summit Scientific

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





Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Aristocrat Angus 31-4 WH & FL

Project Number: AFE #22065
Project Manager: Sam Vogt

Reported:
11/07/22 13:36

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BFK0080 - EPA 5030 Soil MS

Blank (BFK0080-BLK1)

Prepared & Analyzed: 11/03/22

Benzene	ND	0.0020	mg/kg								
Toluene	ND	0.0050	"								
Ethylbenzene	ND	0.0050	"								
Xylenes (total)	ND	0.010	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
Naphthalene	ND	0.0038	"								
Gasoline Range Hydrocarbons	ND	0.50	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0347		"	0.0400		86.8	50-150				
<i>Surrogate: Toluene-d8</i>	0.0436		"	0.0400		109	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0409		"	0.0400		102	50-150				

LCS (BFK0080-BS1)

Prepared & Analyzed: 11/03/22

Benzene	0.0765	0.0020	mg/kg	0.0750		102	70-130				
Toluene	0.0727	0.0050	"	0.0750		97.0	70-130				
Ethylbenzene	0.0724	0.0050	"	0.0750		96.6	70-130				
m,p-Xylene	0.147	0.010	"	0.150		97.9	70-130				
o-Xylene	0.0762	0.0050	"	0.0750		102	70-130				
1,2,4-Trimethylbenzene	0.0833	0.0050	"	0.0750		111	70-130				
1,3,5-Trimethylbenzene	0.0808	0.0050	"	0.0750		108	70-130				
Naphthalene	0.0943	0.0038	"	0.0750		126	70-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0341		"	0.0400		85.3	50-150				
<i>Surrogate: Toluene-d8</i>	0.0441		"	0.0400		110	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0409		"	0.0400		102	50-150				

Matrix Spike (BFK0080-MS1)

Source: 2211017-03

Prepared & Analyzed: 11/03/22

Benzene	0.0700	0.0020	mg/kg	0.0750	ND	93.3	70-130				
Toluene	0.0706	0.0050	"	0.0750	ND	94.1	70-130				
Ethylbenzene	0.0722	0.0050	"	0.0750	ND	96.2	70-130				
m,p-Xylene	0.146	0.010	"	0.150	ND	97.5	70-130				
o-Xylene	0.0757	0.0050	"	0.0750	ND	101	70-130				
1,2,4-Trimethylbenzene	0.0828	0.0050	"	0.0750	ND	110	70-130				
1,3,5-Trimethylbenzene	0.0812	0.0050	"	0.0750	ND	108	70-130				
Naphthalene	0.0795	0.0038	"	0.0750	ND	106	70-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0365		"	0.0400		91.3	50-150				
<i>Surrogate: Toluene-d8</i>	0.0440		"	0.0400		110	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0406		"	0.0400		102	50-150				

Summit Scientific

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



Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Aristocrat Angus 31-4 WH & FL

Project Number: AFE #22065
Project Manager: Sam Vogt

Reported:
11/07/22 13:36

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BFK0080 - EPA 5030 Soil MS

Matrix Spike Dup (BFK0080-MSD1)	Source: 2211017-03			Prepared & Analyzed: 11/03/22						
Benzene	0.0732	0.0020	mg/kg	0.0750	ND	97.6	70-130	4.44	30	
Toluene	0.0722	0.0050	"	0.0750	ND	96.3	70-130	2.35	30	
Ethylbenzene	0.0704	0.0050	"	0.0750	ND	93.9	70-130	2.48	30	
m,p-Xylene	0.143	0.010	"	0.150	ND	95.2	70-130	2.39	30	
o-Xylene	0.0740	0.0050	"	0.0750	ND	98.7	70-130	2.16	30	
1,2,4-Trimethylbenzene	0.0830	0.0050	"	0.0750	ND	111	70-130	0.253	30	
1,3,5-Trimethylbenzene	0.0805	0.0050	"	0.0750	ND	107	70-130	0.816	30	
Naphthalene	0.0902	0.0038	"	0.0750	ND	120	70-130	12.7	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0365</i>		<i>"</i>	<i>0.0400</i>		<i>91.2</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0446</i>		<i>"</i>	<i>0.0400</i>		<i>111</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0420</i>		<i>"</i>	<i>0.0400</i>		<i>105</i>	<i>50-150</i>			

Summit Scientific

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



Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Aristocrat Angus 31-4 WH & FL

Project Number: AFE #22065
Project Manager: Sam Vogt

Reported:
11/07/22 13:36

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BFK0082 - EPA 3550A

Blank (BFK0082-BLK1)

Prepared: 11/03/22 Analyzed: 11/05/22

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	12.5		"	12.5	100	30-150					

LCS (BFK0082-BS1)

Prepared: 11/03/22 Analyzed: 11/05/22

C10-C28 (DRO)	403	50	mg/kg	500	80.6	70-130					
Surrogate: <i>o</i> -Terphenyl	11.8		"	12.5	94.3	30-150					

Matrix Spike (BFK0082-MS1)

Source: 2211017-03

Prepared: 11/03/22 Analyzed: 11/05/22

C10-C28 (DRO)	467	50	mg/kg	500	41.2	85.2	70-130				
Surrogate: <i>o</i> -Terphenyl	10.4		"	12.5	83.6	30-150					

Matrix Spike Dup (BFK0082-MSD1)

Source: 2211017-03

Prepared: 11/03/22 Analyzed: 11/05/22

C10-C28 (DRO)	442	50	mg/kg	500	41.2	80.1	70-130	5.68	20		
Surrogate: <i>o</i> -Terphenyl	9.65		"	12.5	77.2	30-150					

Summit Scientific

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



Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Aristocrat Angus 31-4 WH & FL

Project Number: AFE #22065
Project Manager: Sam Vogt

Reported:
11/07/22 13:36

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

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

Batch BFK0103 - EPA 3050B

Blank (BFK0103-BLK1)

Prepared & Analyzed: 11/03/22

Boron ND 0.0100 mg/L

LCS (BFK0103-BS1)

Prepared & Analyzed: 11/03/22

Boron 4.58 0.0100 mg/L 5.00 91.7 80-120

Duplicate (BFK0103-DUP1)

Source: 2211017-01

Prepared & Analyzed: 11/03/22

Boron 0.0454 0.0100 mg/L 0.0548 18.8 20

Matrix Spike (BFK0103-MS1)

Source: 2211017-01

Prepared & Analyzed: 11/03/22

Boron 4.49 0.0100 mg/L 5.00 0.0548 88.7 75-125

Matrix Spike Dup (BFK0103-MSD1)

Source: 2211017-01

Prepared & Analyzed: 11/03/22

Boron 4.62 0.0100 mg/L 5.00 0.0548 91.3 75-125 2.76 25

Summit Scientific

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



Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Aristocrat Angus 31-4 WH & FL

Project Number: AFE #22065
Project Manager: Sam Vogt

Reported:
11/07/22 13:36

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

Summit Scientific

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

Batch BFK0048 - General Preparation

Blank (BFK0048-BLK1)

Prepared: 11/02/22 Analyzed: 11/03/22

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

LCS (BFK0048-BS1)

Prepared: 11/02/22 Analyzed: 11/03/22

Calcium	5.86	0.0500	mg/L wet	5.00	117	70-130				
Magnesium	5.39	0.0500	"	5.00	108	70-130				
Sodium	5.31	0.0500	"	5.00	106	70-130				

Summit Scientific

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



Civitas Resources
 650 Southgate Drive
 Windsor CO, 80550

Project: Aristocrat Angus 31-4 WH & FL

Project Number: AFE #22065
 Project Manager: Sam Vogt

Reported:
 11/07/22 13:36

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

Summit Scientific

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

Batch BFK0071 - General Preparation

Duplicate (BFK0071-DUP1)

Source: 2210578-01

Prepared & Analyzed: 11/02/22

% Solids	84.8		%		94.7			11.1	20	
----------	------	--	---	--	------	--	--	------	----	--

Summit Scientific

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



Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Aristocrat Angus 31-4 WH & FL

Project Number: AFE #22065
Project Manager: Sam Vogt

Reported:
11/07/22 13:36

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

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

Batch BFK0102 - General Preparation

Blank (BFK0102-BLK1)

Prepared & Analyzed: 11/03/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BFK0102-BS1)

Prepared & Analyzed: 11/03/22

Specific Conductance (EC) 0.153 0.0100 mmhos/cm 0.150 102 95-105

Duplicate (BFK0102-DUP1)

Source: 2211017-01

Prepared & Analyzed: 11/03/22

Specific Conductance (EC) 0.730 0.0100 mmhos/cm 0.752 3.02 20

Summit Scientific

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



Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Aristocrat Angus 31-4 WH & FL

Project Number: AFE #22065
Project Manager: Sam Vogt

Reported:
11/07/22 13:36

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

Summit Scientific

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

Batch BFK0101 - General Preparation

LCS (BFK0101-BS1)

Prepared & Analyzed: 11/03/22

pH	9.01	pH Units	9.18	98.1	95-105
----	------	----------	------	------	--------

Duplicate (BFK0101-DUP1)

Source: 2211017-01

Prepared & Analyzed: 11/03/22

pH	8.09	pH Units	8.07	0.248	20
----	------	----------	------	-------	----

Summit Scientific

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



Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Aristocrat Angus 31-4 WH & FL

Project Number: AFE #22065
Project Manager: Sam Vogt

Reported:
11/07/22 13:36

Notes and Definitions

S-02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
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