

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80401

303.277.9310

July 24, 2023

Costin McQueen

Civitas Resources

650 Southgate Drive

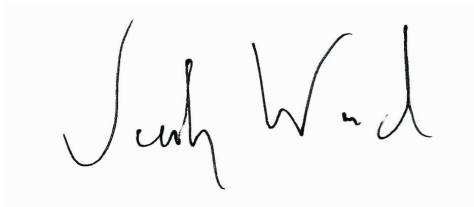
Windsor, CO 80550

RE: Regnier Farms Fed

Work Order # 2307297

Enclosed are the results of analyses for samples received by Summit Scientific on 07/18/23 15:25. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Jacob Wood". The signature is written in a cursive, flowing style. The first name "Jacob" is written with a large, looped 'J' and a small 'a'. The last name "Wood" is written with a large 'W' and a small 'd'.

Jacob Wood For Paul Shrewsbury

President



Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Regnier Farms Fed

Project Number: 1J-19H B268

Project Manager: Costin McQueen

Reported:
07/24/23 08:57

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Regnier Farms WC-01	2307297-01	Soil	07/18/23 15:00	07/18/23 15:25
Regnier Farms WC-BK01	2307297-02	Soil	07/18/23 14:00	07/18/23 15:25

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

Lab ID	Page 1 of 1
2307297	

Send Data To:		Send Invoice To:
Client: <u>Civitas Resources</u>	Project Manager: <u>Curtin McQueen</u>	Company: <u>Civitas Resources</u>
Address: <u>650 Southgate DR</u>	E-Mail: <u>cmcqueen@civitasresources.com</u>	Project Name/Location: <u>Regnier Farms 15-19H</u>
City/State/Zip: <u>Windsor CO 80550</u>		AFE#: <u>CIC: CQC 82450</u>
Phone: <u>720-315-8934</u>	Project Name: <u>Regnier Farms Fed</u>	PO/Billing Codes: <u>1/1/1/1: 8526.162</u>
Sampler Name: <u>Howard Admold</u>	Project Number: <u>15-19H B268</u>	Contact: <u>Curtin McQueen</u>

					Preservative				Matrix				Analysis Requested						Special Instructions
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other _____	Water	Soil	Air-Canister #	Other _____	Full Table 915	915 Metals	pH	SAR	EC	BenQ	
1	Regnier Farms WC 01	7/17/23	15:00	2			X			X			X						
2																			
3	Regnier Farms VES-BK 01	7/18/23	14:00	2			X			X				X	X	X	X	X	
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			

Relinquished by: <u>Howard Admold</u>	Date/Time: <u>7/18/23 13:25</u>	Received by: <u>[Signature]</u>	Date/Time: <u>7/18/23 15:25</u>	TAT Business Days	Field DO	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day <input checked="" type="checkbox"/>	Field EC	
				1 Day <input type="checkbox"/>	Field ORP	
				2 Days <input type="checkbox"/>	Field pH	
				3 Days <input type="checkbox"/>	Field Temp.	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Standard <input type="checkbox"/>	Field Turb.	
Temperature Upon Receipt: <u>18.1</u>	Corrected Temperature <u>0</u>	IR gun #: <u>1</u>	HNO3 lot #: <u></u>			

S₂

Sample Receipt Checklist

S2 Work Order# 2307297Client: CintasClient Project ID: Regnier Farms FedShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐Airbill #: ☐

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

Matrix (Check all that apply)

Air

☐

Soil

☒

Solid

Water

☐

Other

☐

Temp (°C)

Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	same day
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe 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.
AS
Custodian Printed Name

7/18/23
Date/Time



Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Regnier Farms Fed
Project Number: 1J-19H B268
Project Manager: Costin McQueen

Reported:
07/24/23 08:57

Regnier Farms WC-01
2307297-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/18/23 15:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.020		mg/kg	10	BGG0552	07/18/23	07/18/23	EPA 8260B	
Toluene	0.11	0.050		"	"	"	"	"	"	
Ethylbenzene	0.054	0.050		"	"	"	"	"	"	
Xylenes (total)	0.60	0.10		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.58	0.050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.27	0.050		"	"	"	"	"	"	
Naphthalene	0.094	0.038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	25	5.0		"	"	"	"	"	"	

Date Sampled: **07/18/23 15:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		82.6 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		89.4 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		111 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/18/23 15:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	220	50		mg/kg	1	BGG0553	07/18/23	07/18/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **07/18/23 15:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		83.5 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Regnier Farms WC-01
2307297-01 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **07/18/23 15:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500		mg/kg	1	BGG0560	07/19/23	07/20/23	EPA 8270D SIM	
Anthracene	ND	0.00500		"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500		"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500		"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500		"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500		"	"	"	"	"	"	
Chrysene	ND	0.00500		"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500		"	"	"	"	"	"	
Fluoranthene	ND	0.00500		"	"	"	"	"	"	
Fluorene	0.0250	0.00500		"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500		"	"	"	"	"	"	
Pyrene	ND	0.00500		"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500		"	"	"	"	"	"	
2-Methylnaphthalene	0.144	0.00500		"	"	"	"	"	"	

Date Sampled: **07/18/23 15:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		44.3 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		48.8 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **07/18/23 15:00**

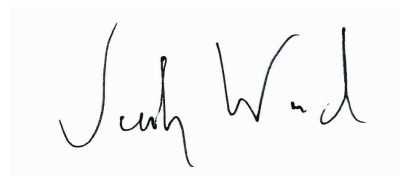
Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0461	0.0100		mg/L	1	BGG0558	07/19/23	07/20/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **07/18/23 15:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Regnier Farms WC-01
2307297-01 (Soil)

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Total Metals by EPA 6020B

Arsenic	0.673	0.214	mg/kg dry	1	BGG0563	07/19/23	07/20/23	EPA 6020B
Barium	27.1	0.428	"	"	"	"	"	"
Cadmium	ND	0.214	"	"	"	"	"	"
Copper	1.69	0.428	"	"	"	"	"	"
Lead	1.84	0.214	"	"	"	"	"	"
Nickel	1.23	0.428	"	"	"	"	"	"
Selenium	ND	0.278	0.187	"	"	"	"	"
Silver	ND	0.0214	"	"	"	"	"	"
Zinc	5.30	0.428	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **07/18/23 15:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGG0565	07/19/23	07/19/23	EPA 7196A	

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

Date Sampled: **07/18/23 15:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	49.3	0.0535		mg/L dry	1	BGG0551	07/18/23	07/19/23	EPA 6020B	
Magnesium	6.17	0.0535		"	"	"	"	"	"	
Sodium	1200	0.0535		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **07/18/23 15:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	42.8	0.00100		units	1	BGG0645	07/20/23	07/20/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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07/24/23 08:57

Regnier Farms WC-01
2307297-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/18/23 15:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	93.4			%	1	BGG0559	07/19/23	07/19/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/18/23 15:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	7.75	0.0100		mmhos/cm	1	BGG0574	07/19/23	07/19/23	EPA 120.1	

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

Date Sampled: **07/18/23 15:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	7.46			pH Units	1	BGG0573	07/19/23	07/19/23	EPA 9045D	

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Regnier Farms WC-BK01
2307297-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **07/18/23 14:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	ND	0.0100		mg/L	1	BGG0558	07/19/23	07/20/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **07/18/23 14:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Arsenic	2.06	0.242		mg/kg dry	1	BGG0563	07/19/23	07/20/23	EPA 6020B	
Barium	102	0.485		"	"	"	"	"	"	
Cadmium	0.415	0.242		"	"	"	"	"	"	
Copper	5.25	0.485		"	"	"	"	"	"	
Lead	13.0	0.242		"	"	"	"	"	"	
Nickel	4.50	0.485		"	"	"	"	"	"	
Selenium	0.369	0.315	0.212	"	"	"	"	"	"	
Silver	0.130	0.0242		"	"	"	"	"	"	
Zinc	19.5	0.485		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **07/18/23 14:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGG0565	07/19/23	07/19/23	EPA 7196A	

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

Date Sampled: **07/18/23 14:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Calcium	216	0.0606		mg/L dry	1	BGG0551	07/18/23	07/19/23	EPA 6020B	
Magnesium	126	0.0606		"	"	"	"	"	"	
Sodium	30.2	0.0606		"	"	"	"	"	"	

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Project Number: 1J-19H B268

Project Manager: Costin McQueen

Reported:
07/24/23 08:57

Regnier Farms WC-BK01
2307297-02 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **07/18/23 14:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.404	0.00100		units	1	BGG0645	07/20/23	07/20/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/18/23 14:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.5			%	1	BGG0559	07/19/23	07/19/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/18/23 14:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.475	0.0100		mmhos/cm	1	BGG0574	07/19/23	07/19/23	EPA 120.1	

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

Date Sampled: **07/18/23 14:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	5.96			pH Units	1	BGG0573	07/19/23	07/19/23	EPA 9045D	

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Project: Regnier Farms Fed
Project Number: 1J-19H B268
Project Manager: Costin McQueen

Reported:
07/24/23 08:57

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 BGG0552 - EPA 5030 Soil MS

Blank (BGG0552-BLK1)

Prepared: 07/18/23 Analyzed: 07/19/23

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0338		"	0.0400		84.6	50-150			
Surrogate: Toluene-d8	0.0366		"	0.0400		91.5	50-150			
Surrogate: 4-Bromofluorobenzene	0.0439		"	0.0400		110	50-150			

LCS (BGG0552-BS1)

Prepared: 07/18/23 Analyzed: 07/19/23

Benzene	0.0888	0.0020	mg/kg	0.100		88.8	70-130			
Toluene	0.0769	0.0050	"	0.100		76.9	70-130			
Ethylbenzene	0.124	0.0050	"	0.100		124	70-130			
m,p-Xylene	0.245	0.010	"	0.200		122	70-130			
o-Xylene	0.127	0.0050	"	0.100		127	70-130			
1,2,4-Trimethylbenzene	0.109	0.0050	"	0.100		109	70-130			
1,3,5-Trimethylbenzene	0.0982	0.0050	"	0.100		98.2	70-130			
Naphthalene	0.124	0.0038	"	0.100		124	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0269		"	0.0400		67.3	50-150			
Surrogate: Toluene-d8	0.0353		"	0.0400		88.2	50-150			
Surrogate: 4-Bromofluorobenzene	0.0417		"	0.0400		104	50-150			

Matrix Spike (BGG0552-MS1)

Source: 2307298-01

Prepared: 07/18/23 Analyzed: 07/19/23

Benzene	0.0722	0.0020	mg/kg	0.100	ND	72.2	70-130			
Toluene	0.0717	0.0050	"	0.100	ND	71.7	70-130			
Ethylbenzene	0.0764	0.0050	"	0.100	ND	76.4	70-130			
m,p-Xylene	0.151	0.010	"	0.200	0.00543	72.6	70-130			
o-Xylene	0.0756	0.0050	"	0.100	ND	75.6	70-130			
1,2,4-Trimethylbenzene	0.0814	0.0050	"	0.100	ND	81.4	70-130			
1,3,5-Trimethylbenzene	0.0745	0.0050	"	0.100	ND	74.5	70-130			
Naphthalene	0.0988	0.0038	"	0.100	ND	98.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0323		"	0.0400		80.9	50-150			
Surrogate: Toluene-d8	0.0368		"	0.0400		92.0	50-150			
Surrogate: 4-Bromofluorobenzene	0.0421		"	0.0400		105	50-150			

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Project Manager: Costin McQueen

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07/24/23 08:57

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 BGG0552 - EPA 5030 Soil MS

Matrix Spike Dup (BGG0552-MSD1)	Source: 2307298-01			Prepared: 07/18/23 Analyzed: 07/19/23						
Benzene	0.0707	0.0020	mg/kg	0.100	ND	70.7	70-130	2.06	30	
Toluene	0.0720	0.0050	"	0.100	ND	72.0	70-130	0.376	30	
Ethylbenzene	0.0741	0.0050	"	0.100	ND	74.1	70-130	2.99	30	
m,p-Xylene	0.148	0.010	"	0.200	0.00543	71.1	70-130	2.05	30	
o-Xylene	0.0731	0.0050	"	0.100	ND	73.1	70-130	3.27	30	
1,2,4-Trimethylbenzene	0.0800	0.0050	"	0.100	ND	80.0	70-130	1.67	30	
1,3,5-Trimethylbenzene	0.0730	0.0050	"	0.100	ND	73.0	70-130	2.03	30	
Naphthalene	0.0941	0.0038	"	0.100	ND	94.1	70-130	4.91	30	
Surrogate: 1,2-Dichloroethane-d4	0.0341		"	0.0400		85.3	50-150			
Surrogate: Toluene-d8	0.0361		"	0.0400		90.3	50-150			
Surrogate: 4-Bromofluorobenzene	0.0416		"	0.0400		104	50-150			

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Regnier Farms Fed

Project Number: 1J-19H B268
Project Manager: Costin McQueen

Reported:
07/24/23 08:57

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 BGG0553 - EPA 3550A

Blank (BGG0553-BLK1)

Prepared: 07/18/23 Analyzed: 07/19/23

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	10.8		"	12.5		86.4	30-150			

LCS (BGG0553-BS1)

Prepared: 07/18/23 Analyzed: 07/19/23

C10-C28 (DRO)	563	50	mg/kg	500		113	70-130			
Surrogate: o-Terphenyl	10.7		"	12.5		85.2	30-150			

Matrix Spike (BGG0553-MS1)

Source: 2307298-01

Prepared: 07/18/23 Analyzed: 07/19/23

C10-C28 (DRO)	523	50	mg/kg	500	13.1	102	70-130			
Surrogate: o-Terphenyl	10.9		"	12.5		87.0	30-150			

Matrix Spike Dup (BGG0553-MSD1)

Source: 2307298-01

Prepared: 07/18/23 Analyzed: 07/19/23

C10-C28 (DRO)	511	50	mg/kg	500	13.1	99.6	70-130	2.41	20	
Surrogate: o-Terphenyl	10.7		"	12.5		86.0	30-150			

Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Regnier Farms Fed
Project Number: 1J-19H B268
Project Manager: Costin McQueen

Reported:
07/24/23 08:57

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGG0560 - EPA 5030 Soil MS

Blank (BGG0560-BLK1)

Prepared: 07/19/23 Analyzed: 07/20/23

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0246		"	0.0333		73.8	40-150			
Surrogate: Fluoranthene-d10	0.0193		"	0.0333		57.8	40-150			

LCS (BGG0560-BS1)

Prepared: 07/19/23 Analyzed: 07/20/23

Acenaphthene	0.0223	0.00500	mg/kg	0.0333		66.9	31-137			
Anthracene	0.0228	0.00500	"	0.0333		68.5	30-120			
Benzo (a) anthracene	0.0250	0.00500	"	0.0333		75.0	30-120			
Benzo (a) pyrene	0.0214	0.00500	"	0.0333		64.3	30-120			
Benzo (b) fluoranthene	0.0239	0.00500	"	0.0333		71.6	30-120			
Benzo (k) fluoranthene	0.0240	0.00500	"	0.0333		71.9	30-120			
Chrysene	0.0242	0.00500	"	0.0333		72.6	30-120			
Dibenz (a,h) anthracene	0.0213	0.00500	"	0.0333		64.0	30-120			
Fluoranthene	0.0240	0.00500	"	0.0333		72.1	30-120			
Fluorene	0.0241	0.00500	"	0.0333		72.4	30-120			
Indeno (1,2,3-cd) pyrene	0.0228	0.00500	"	0.0333		68.3	30-120			
Pyrene	0.0248	0.00500	"	0.0333		74.3	35-142			
1-Methylnaphthalene	0.0250	0.00500	"	0.0333		75.0	35-142			
2-Methylnaphthalene	0.0252	0.00500	"	0.0333		75.5	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0220		"	0.0333		65.9	40-150			
Surrogate: Fluoranthene-d10	0.0237		"	0.0333		71.0	40-150			

Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Regnier Farms Fed

Project Number: 1J-19H B268
Project Manager: Costin McQueen

Reported:
07/24/23 08:57

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGG0560 - EPA 5030 Soil MS

Matrix Spike (BGG0560-MS1)			Source: 2307297-01		Prepared: 07/19/23 Analyzed: 07/20/23					
Acenaphthene	0.0175	0.00500	mg/kg	0.0333	ND	52.5	31-137			
Anthracene	0.0174	0.00500	"	0.0333	ND	52.2	30-120			
Benzo (a) anthracene	0.0204	0.00500	"	0.0333	ND	61.1	30-120			
Benzo (a) pyrene	0.0160	0.00500	"	0.0333	ND	48.1	30-120			
Benzo (b) fluoranthene	0.0186	0.00500	"	0.0333	ND	55.9	30-120			
Benzo (k) fluoranthene	0.0187	0.00500	"	0.0333	ND	56.1	30-120			
Chrysene	0.0193	0.00500	"	0.0333	ND	57.8	30-120			
Dibenz (a,h) anthracene	0.0164	0.00500	"	0.0333	ND	49.3	30-120			
Fluoranthene	0.0178	0.00500	"	0.0333	ND	53.3	30-120			
Fluorene	0.0179	0.00500	"	0.0333	0.0250	NR	30-120			QM-07
Indeno (1,2,3-cd) pyrene	0.0178	0.00500	"	0.0333	ND	53.4	30-120			
Pyrene	0.0209	0.00500	"	0.0333	ND	62.7	35-142			
1-Methylnaphthalene	0.0192	0.00500	"	0.0333	ND	57.7	15-130			
2-Methylnaphthalene	0.0178	0.00500	"	0.0333	0.144	NR	15-130			QM-07
Surrogate: 2-Methylnaphthalene-d10	0.0181		"	0.0333		54.2	40-150			
Surrogate: Fluoranthene-d10	0.0172		"	0.0333		51.6	40-150			

Matrix Spike Dup (BGG0560-MSD1)			Source: 2307297-01		Prepared: 07/19/23 Analyzed: 07/20/23					
Acenaphthene	0.0159	0.00500	mg/kg	0.0333	ND	47.7	31-137	9.54	30	
Anthracene	0.0163	0.00500	"	0.0333	ND	49.0	30-120	6.27	30	
Benzo (a) anthracene	0.0174	0.00500	"	0.0333	ND	52.1	30-120	15.9	30	
Benzo (a) pyrene	0.0160	0.00500	"	0.0333	ND	47.8	30-120	0.482	30	
Benzo (b) fluoranthene	0.0181	0.00500	"	0.0333	ND	54.4	30-120	2.70	30	
Benzo (k) fluoranthene	0.0180	0.00500	"	0.0333	ND	54.0	30-120	3.96	30	
Chrysene	0.0181	0.00500	"	0.0333	ND	54.4	30-120	6.15	30	
Dibenz (a,h) anthracene	0.0152	0.00500	"	0.0333	ND	45.7	30-120	7.72	30	
Fluoranthene	0.0168	0.00500	"	0.0333	ND	50.5	30-120	5.41	30	
Fluorene	0.0172	0.00500	"	0.0333	0.0250	NR	30-120	3.93	30	QM-07
Indeno (1,2,3-cd) pyrene	0.0183	0.00500	"	0.0333	ND	54.8	30-120	2.61	30	
Pyrene	0.0204	0.00500	"	0.0333	ND	61.3	35-142	2.24	30	
1-Methylnaphthalene	0.0207	0.00500	"	0.0333	ND	62.0	15-130	7.06	50	
2-Methylnaphthalene	0.0190	0.00500	"	0.0333	0.144	NR	15-130	6.48	50	QM-07
Surrogate: 2-Methylnaphthalene-d10	0.0194		"	0.0333		58.2	40-150			
Surrogate: Fluoranthene-d10	0.0155		"	0.0333		46.5	40-150			

Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Regnier Farms Fed

Project Number: 1J-19H B268
Project Manager: Costin McQueen

Reported:
07/24/23 08:57

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 BGG0558 - EPA 3050B

Blank (BGG0558-BLK1)

Prepared: 07/19/23 Analyzed: 07/20/23

Boron ND 0.0100 mg/L

LCS (BGG0558-BS1)

Prepared: 07/19/23 Analyzed: 07/20/23

Boron 5.04 0.0100 mg/L 5.00 101 80-120

Duplicate (BGG0558-DUP1)

Source: 2307295-01

Prepared: 07/19/23 Analyzed: 07/20/23

Boron 0.0325 0.0100 mg/L 0.0156 70.3 20 QR-01

Matrix Spike (BGG0558-MS1)

Source: 2307295-01

Prepared: 07/19/23 Analyzed: 07/20/23

Boron 4.98 0.0100 mg/L 5.00 0.0156 99.3 75-125

Matrix Spike Dup (BGG0558-MSD1)

Source: 2307295-01

Prepared: 07/19/23 Analyzed: 07/20/23

Boron 5.03 0.0100 mg/L 5.00 0.0156 100 75-125 0.905 25

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Regnier Farms Fed
Project Number: 1J-19H B268
Project Manager: Costin McQueen

Reported:
07/24/23 08:57

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 BGG0563 - EPA 3050B

Blank (BGG0563-BLK1)

Prepared: 07/19/23 Analyzed: 07/20/23

Arsenic	ND	0.200	mg/kg wet
Barium	ND	0.400	"
Cadmium	ND	0.200	"
Copper	ND	0.400	"
Lead	ND	0.200	"
Nickel	ND	0.400	"
Selenium	ND	0.260	"
Silver	ND	0.0200	"
Zinc	ND	0.400	"

LCS (BGG0563-BS1)

Prepared: 07/19/23 Analyzed: 07/20/23

Arsenic	36.9	0.200	mg/kg wet	40.0	92.3	80-120
Barium	33.8	0.400	"	40.0	84.6	80-120
Cadmium	1.73	0.200	"	2.00	86.6	80-120
Copper	36.0	0.400	"	40.0	89.9	80-120
Lead	18.5	0.200	"	20.0	92.5	80-120
Nickel	35.6	0.400	"	40.0	89.0	80-120
Selenium	3.91	0.260	"	4.00	97.8	80-120
Silver	1.64	0.0200	"	2.00	82.2	80-120
Zinc	40.6	0.400	"	40.0	102	80-120


Duplicate (BGG0563-DUP1)

Source: 2307283-02

Prepared: 07/19/23 Analyzed: 07/20/23

Arsenic	1.21	0.235	mg/kg dry	1.11	8.64	20	
Barium	129	0.469	"	95.8	29.7	20	QR-04
Cadmium	0.241	0.235	"	0.190	23.8	20	QR-01
Copper	1.33	0.469	"	1.23	8.31	20	
Lead	4.46	0.235	"	3.75	17.3	20	
Nickel	1.66	0.469	"	1.56	6.13	20	
Selenium	ND	0.305	"	ND		20	
Silver	0.0263	0.0235	"	0.0206	24.0	20	QR-01
Zinc	5.30	0.469	"	4.96	6.60	20	

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Civitas Resources
650 Southgate Drive
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Project: Regnier Farms Fed

Project Number: 1J-19H B268
Project Manager: Costin McQueen

Reported:
07/24/23 08:57

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 BGG0563 - EPA 3050B

Matrix Spike (BGG0563-MS1)			Source: 2307283-02		Prepared: 07/19/23 Analyzed: 07/20/23					
Arsenic	15.9	0.235	mg/kg dry	46.9	1.11	31.5	75-125			QM-01
Barium	173	0.469	"	46.9	95.8	164	75-125			QM-01
Cadmium	1.82	0.235	"	2.35	0.190	69.3	75-125			QM-01
Copper	16.0	0.469	"	46.9	1.23	31.5	75-125			QM-01
Lead	19.3	0.235	"	23.5	3.75	66.1	75-125			QM-01
Nickel	16.6	0.469	"	46.9	1.56	32.1	75-125			QM-01
Selenium	4.31	0.305	"	4.69	ND	91.9	75-125			
Silver	1.65	0.0235	"	2.35	0.0206	69.4	75-125			QM-01
Zinc	21.4	0.469	"	46.9	4.96	35.0	75-125			QM-01

Matrix Spike Dup (BGG0563-MSD1)			Source: 2307283-02		Prepared: 07/19/23 Analyzed: 07/20/23					
Arsenic	16.2	0.235	mg/kg dry	46.9	1.11	32.1	75-125	1.77	25	QM-01
Barium	188	0.469	"	46.9	95.8	196	75-125	8.38	25	QM-01
Cadmium	2.03	0.235	"	2.35	0.190	78.3	75-125	11.0	25	
Copper	16.1	0.469	"	46.9	1.23	31.7	75-125	0.620	25	QM-01
Lead	21.0	0.235	"	23.5	3.75	73.6	75-125	8.74	25	QM-01
Nickel	16.6	0.469	"	46.9	1.56	32.1	75-125	0.186	25	QM-01
Selenium	3.47	0.305	"	4.69	ND	74.0	75-125	21.6	25	QM-01
Silver	1.78	0.0235	"	2.35	0.0206	75.0	75-125	7.63	25	
Zinc	21.2	0.469	"	46.9	4.96	34.7	75-125	0.671	25	QM-01

Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Regnier Farms Fed
Project Number: 1J-19H B268
Project Manager: Costin McQueen

Reported:
07/24/23 08:57

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 BGG0565 - 3060A Mod

Blank (BGG0565-BLK1)

Prepared & Analyzed: 07/19/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGG0565-BS1)

Prepared & Analyzed: 07/19/23

Chromium, Hexavalent 23.9 0.30 mg/kg wet 25.0 95.6 80-120

Duplicate (BGG0565-DUP1)

Source: 2307295-01

Prepared & Analyzed: 07/19/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGG0565-MS1)

Source: 2307295-01

Prepared & Analyzed: 07/19/23

Chromium, Hexavalent 23.6 0.30 mg/kg dry 25.4 ND 93.0 75-125

Matrix Spike Dup (BGG0565-MSD1)

Source: 2307295-01

Prepared & Analyzed: 07/19/23

Chromium, Hexavalent 22.4 0.30 mg/kg dry 25.4 ND 88.0 75-125 5.52 20

Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Regnier Farms Fed

Project Number: 1J-19H B268

Project Manager: Costin McQueen

Reported:
07/24/23 08:57

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

Summit Scientific

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

Batch BGG0551 - General Preparation

Blank (BGG0551-BLK1)

Prepared: 07/18/23 Analyzed: 07/19/23

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

LCS (BGG0551-BS1)

Prepared: 07/18/23 Analyzed: 07/19/23

Calcium	5.47	0.0500	mg/L wet	5.00	109	70-130
Magnesium	5.82	0.0500	"	5.00	116	70-130
Sodium	5.93	0.0500	"	5.00	119	70-130

Summit Scientific

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Civitas Resources
650 Southgate Drive
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Project: Regnier Farms Fed

Project Number: 1J-19H B268

Project Manager: Costin McQueen

Reported:
07/24/23 08:57

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

Summit Scientific

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

Batch BGG0559 - General Preparation

Duplicate (BGG0559-DUP1)

Source: 2307295-01

Prepared & Analyzed: 07/19/23

% Solids	98.3	%	98.3	0.0101	20
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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Regnier Farms Fed

Project Number: 1J-19H B268

Project Manager: Costin McQueen

Reported:
07/24/23 08:57

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

Summit Scientific

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

Batch BGG0574 - General Preparation

Blank (BGG0574-BLK1)

Prepared & Analyzed: 07/19/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGG0574-BS1)

Prepared & Analyzed: 07/19/23

Specific Conductance (EC) 0.155 0.0100 mmhos/cm 0.150 104 95-105

Duplicate (BGG0574-DUP1)

Source: 2307295-01

Prepared & Analyzed: 07/19/23

Specific Conductance (EC) 0.131 0.0100 mmhos/cm 0.132 1.22 20

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Regnier Farms Fed

Project Number: 1J-19H B268

Project Manager: Costin McQueen

Reported:
07/24/23 08:57

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

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

Batch BGG0573 - General Preparation

LCS (BGG0573-BS1)

Prepared & Analyzed: 07/19/23

pH	9.03	pH Units	9.18	98.4	95-105
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Duplicate (BGG0573-DUP1)

Source: 2307295-01

Prepared & Analyzed: 07/19/23

pH	6.17	pH Units	6.14	0.487	20
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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Regnier Farms Fed

Project Number: 1J-19H B268
Project Manager: Costin McQueen

Reported:
07/24/23 08:57

Notes and Definitions

QR-04	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QR-01	Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
QM-01	The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
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