

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

March 14, 2024

Costin McQueen  
Civitas Resources  
650 Southgate Drive  
Windsor, CO 80550

RE: Mickey #7

Work Order #2402469

Enclosed are the results of analyses for samples received by Summit Scientific on 02/27/24 16:30. 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: Mickey #7

Project Number: [none]

Project Manager: Costin McQueen

**Reported:**  
03/14/24 07:27

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WC-01	2402469-01	Soil	02/25/24 15:30	02/27/24 16:30
WCBK-01	2402469-02	Soil	02/25/24 15:40	02/27/24 16:30

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.*

Client: <u>Civitas Resources</u>		Send Data To: Project Manager: <u>Costin McQueen</u>		Send Invoice To: Company: <u>Civitas</u>	
Address: <u>650 Southgate Dr</u>		E-Mail: <u>C.McQueen@Civitasresources.com</u>		Project Name/Location: <u>Mickey #7</u>	
City/State/Zip: <u>Windsor, CO 80550</u>		<u>C.frost@Civitasresources.com</u>		AFE#: <u>C/C: COX0920</u>	
Phone: <u>720-438-9064</u>		Project Name: <u>Mickey #7</u>		PO/Billing Codes: <u>m/m: 8520.162</u>	
Sampler Name: <u>Com Frost</u>		Project Number:		Contact: <u>Costin 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										
1	WC-01	2-25-24	3:30 pm	2						X												Full 915
2	WCBK-01	2-25-24	3:40 pm	2						X												915 metals, EC, SAR, PH, Barom
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						

Relinquished by: <u>Com Frost</u>	Date/Time: <u>2-26-24/5:30 pm</u>	Received by: <u>[Signature]</u>	Date/Time: <u>2-27-24/1030</u>	TAT Business Days	Field DO	Notes:
Relinquished by: <u>SL</u>	Date/Time: <u>2-27-24/1030</u>	Received by: <u>[Signature]</u>	Date/Time: <u>2-27-24/1030</u>	Same Day <input checked="" type="checkbox"/>	Field EC	
				1 Day <input type="checkbox"/>	Field ORP	
				2 Days <input type="checkbox"/>	Field pH	
				3 Days <input type="checkbox"/>	Field Temp.	
				Standard <input type="checkbox"/>	Field Turb.	
Temperature Upon Receipt: <u>6.6</u>	Corrected Temperature: <u>e</u>	IR gun #: <u>1</u>	HNO3 lot #: <u></u>			

S<sub>2</sub>

## Sample Receipt Checklist

S2 Work Order# 2402469Client: CintasClient Project ID: Mickey #7Shipped 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? <sup>(1)</sup> 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? <sup>(1)</sup>	<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 <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? 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)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.
AS  
Custodian Printed Name

2/27/24  
Date/Time



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Mickey #7

Project Number: [none]  
Project Manager: Costin McQueen

**Reported:**  
03/14/24 07:27

**WC-01**  
**2402469-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/25/24 15:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHB0859	02/27/24	02/27/24	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: **02/25/24 15:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0336	84.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0411	103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0408	102 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **02/25/24 15:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHB0862	02/27/24	02/27/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/25/24 15:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	13.6	109 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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: Mickey #7

Project Number: [none]  
Project Manager: Costin McQueen

**Reported:**  
03/14/24 07:27

**WC-01**  
**2402469-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **02/25/24 15:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BHB0879	02/28/24	02/28/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
<b>Benzo (a) pyrene</b>	<b>0.00573</b>	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: **02/25/24 15:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0243	72.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0204	61.2 %	40-150		"	"	"	"	

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

Date Sampled: **02/25/24 15:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHC0181	03/07/24	03/11/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/25/24 15:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

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: Mickey #7

Project Number: [none]  
Project Manager: Costin McQueen

**Reported:**  
03/14/24 07:27

**WC-01**  
**2402469-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	3.56	0.200	mg/kg dry	1	BHC0007	03/01/24	03/04/24	EPA 6020B
Barium	101	0.400	"	"	"	"	"	"
Cadmium	0.218	0.200	"	"	"	"	"	"
Copper	4.70	0.400	"	"	"	"	"	"
Lead	5.35	0.200	"	"	"	"	"	"
Nickel	3.59	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	41.5	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **02/25/24 15:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0305	03/12/24	03/13/24	EPA 7196A	

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

Date Sampled: **02/25/24 15:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	2640	0.0500	mg/L dry	1	BHB0864	02/27/24	03/01/24	EPA 6020B	
Magnesium	273	0.0500	"	"	"	"	"	"	
Sodium	5360	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **02/25/24 15:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	26.6	0.00100	units	1	BHC0151	03/06/24	03/06/24	Calculation	

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

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: Mickey #7  
Project Number: [none]  
Project Manager: Costin McQueen

**Reported:**  
03/14/24 07:27

**WC-01**  
**2402469-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/25/24 15:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.0		%	1	BHC0072	03/05/24	03/05/24	Calculation	

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

Date Sampled: **02/25/24 15:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0393	0.0100	mmhos/cm	1	BHB0866	02/27/24	02/28/24	EPA 120.1	

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

Date Sampled: **02/25/24 15:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.11		pH Units	1	BHB0867	02/27/24	02/28/24	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: Mickey #7

Project Number: [none]  
Project Manager: Costin McQueen

**Reported:**  
03/14/24 07:27

**WCBK-01**  
**2402469-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/25/24 15:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHC0181	03/07/24	03/11/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/25/24 15:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	3.52	0.200		mg/kg dry	1	BHC0007	03/01/24	03/04/24	EPA 6020B	
Barium	111	0.400		"	"	"	"	"	"	
Cadmium	0.214	0.200		"	"	"	"	"	"	
Copper	6.01	0.400		"	"	"	"	"	"	
Lead	7.37	0.200		"	"	"	"	"	"	
Nickel	6.77	0.400		"	"	"	"	"	"	
Silver	0.0400	0.0200		"	"	"	"	"	"	
Zinc	24.7	0.400		"	"	"	"	"	"	
Selenium	1.10	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **02/25/24 15:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHC0305	03/12/24	03/13/24	EPA 7196A	

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

Date Sampled: **02/25/24 15:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	284	0.0500		mg/L dry	1	BHB0864	02/27/24	03/01/24	EPA 6020B	
Magnesium	36.3	0.0500		"	"	"	"	"	"	
Sodium	7.84	0.0500		"	"	"	"	"	"	

**Calculated Analysis**

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: Mickey #7

Project Number: [none]  
Project Manager: Costin McQueen

**Reported:**  
03/14/24 07:27

**WCBK-01**  
**2402469-02 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **02/25/24 15:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.116	0.00100	units	1	BHC0151	03/06/24	03/06/24	Calculation	

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

Date Sampled: **02/25/24 15:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.1		%	1	BHC0072	03/05/24	03/05/24	Calculation	

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

Date Sampled: **02/25/24 15:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.235	0.0100	mmhos/cm	1	BHB0866	02/27/24	02/28/24	EPA 120.1	

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

Date Sampled: **02/25/24 15:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.90		pH Units	1	BHB0867	02/27/24	02/28/24	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: Mickey #7

Project Number: [none]  
Project Manager: Costin McQueen

**Reported:**  
03/14/24 07:27

## 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 BHB0859 - EPA 5030 Soil MS

##### Blank (BHB0859-BLK1)

Prepared: 02/27/24 Analyzed: 02/28/24

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	0.0345		"	0.0400		86.2	50-150			
Surrogate: Toluene-d8	0.0431		"	0.0400		108	50-150			
Surrogate: 4-Bromofluorobenzene	0.0416		"	0.0400		104	50-150			

##### LCS (BHB0859-BS1)

Prepared: 02/27/24 Analyzed: 02/28/24

Benzene	0.0910	0.0020	mg/kg	0.100		91.0	70-130			
Toluene	0.0913	0.0050	"	0.100		91.3	70-130			
Ethylbenzene	0.0901	0.0050	"	0.100		90.1	70-130			
m,p-Xylene	0.171	0.010	"	0.200		85.7	70-130			
o-Xylene	0.0860	0.0050	"	0.100		86.0	70-130			
1,2,4-Trimethylbenzene	0.0846	0.0050	"	0.100		84.6	70-130			
1,3,5-Trimethylbenzene	0.0806	0.0050	"	0.100		80.6	70-130			
Naphthalene	0.101	0.0038	"	0.100		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0326		"	0.0400		81.4	50-150			
Surrogate: Toluene-d8	0.0402		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0390		"	0.0400		97.6	50-150			

##### Matrix Spike (BHB0859-MS1)

Source: 2402467-01

Prepared: 02/27/24 Analyzed: 02/28/24

Benzene	0.0851	0.0020	mg/kg	0.100	ND	85.1	70-130			
Toluene	0.0852	0.0050	"	0.100	ND	85.2	70-130			
Ethylbenzene	0.0832	0.0050	"	0.100	ND	83.2	70-130			
m,p-Xylene	0.158	0.010	"	0.200	ND	79.1	70-130			
o-Xylene	0.0801	0.0050	"	0.100	ND	80.1	70-130			
1,2,4-Trimethylbenzene	0.0777	0.0050	"	0.100	ND	77.7	70-130			
1,3,5-Trimethylbenzene	0.0748	0.0050	"	0.100	ND	74.8	70-130			
Naphthalene	0.0946	0.0038	"	0.100	ND	94.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0334		"	0.0400		83.5	50-150			
Surrogate: Toluene-d8	0.0405		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0398		"	0.0400		99.4	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: Mickey #7

Project Number: [none]  
Project Manager: Costin McQueen

**Reported:**  
03/14/24 07:27

**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 BHB0859 - EPA 5030 Soil MS**

Matrix Spike Dup (BHB0859-MSD1)		Source: 2402467-01			Prepared: 02/27/24 Analyzed: 02/28/24					
Benzene	0.0833	0.0020	mg/kg	0.100	ND	83.3	70-130	2.21	30	
Toluene	0.0838	0.0050	"	0.100	ND	83.8	70-130	1.63	30	
Ethylbenzene	0.0819	0.0050	"	0.100	ND	81.9	70-130	1.60	30	
m,p-Xylene	0.156	0.010	"	0.200	ND	77.9	70-130	1.51	30	
o-Xylene	0.0797	0.0050	"	0.100	ND	79.7	70-130	0.526	30	
1,2,4-Trimethylbenzene	0.0779	0.0050	"	0.100	ND	77.9	70-130	0.347	30	
1,3,5-Trimethylbenzene	0.0743	0.0050	"	0.100	ND	74.3	70-130	0.724	30	
Naphthalene	0.0901	0.0038	"	0.100	ND	90.1	70-130	4.94	30	
<hr/>										
Surrogate: 1,2-Dichloroethane-d4	0.0327		"	0.0400		81.7	50-150			
Surrogate: Toluene-d8	0.0406		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0404		"	0.0400		101	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: Mickey #7  
Project Number: [none]  
Project Manager: Costin McQueen

**Reported:**  
03/14/24 07:27

**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 BHB0862 - EPA 3550A**

**Blank (BHB0862-BLK1)**

Prepared: 02/27/24 Analyzed: 02/28/24

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	10.6		"	12.5		85.1	30-150			

**LCS (BHB0862-BS1)**

Prepared: 02/27/24 Analyzed: 02/28/24

C10-C28 (DRO)	509	50	mg/kg	500		102	70-130			
Surrogate: o-Terphenyl	10.1		"	12.5		81.1	30-150			

**Matrix Spike (BHB0862-MS1)**

Source: 2402467-01

Prepared: 02/27/24 Analyzed: 02/28/24

C10-C28 (DRO)	506	50	mg/kg	500	17.1	97.9	70-130			
Surrogate: o-Terphenyl	15.8		"	12.5		126	30-150			

**Matrix Spike Dup (BHB0862-MSD1)**

Source: 2402467-01

Prepared: 02/27/24 Analyzed: 02/28/24

C10-C28 (DRO)	500	50	mg/kg	500	17.1	96.6	70-130	1.23	20	
Surrogate: o-Terphenyl	16.3		"	12.5		130	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: Mickey #7  
Project Number: [none]  
Project Manager: Costin McQueen

**Reported:**  
03/14/24 07:27

## 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 BHB0879 - EPA 5030 Soil MS

##### Blank (BHB0879-BLK1)

Prepared & Analyzed: 02/28/24

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	0.0372		"	0.0333		112	40-150			
Surrogate: Fluoranthene-d10	0.0237		"	0.0333		71.1	40-150			

##### LCS (BHB0879-BS1)

Prepared & Analyzed: 02/28/24

Acenaphthene	0.0378	0.00500	mg/kg	0.0333		113	31-137			
Anthracene	0.0390	0.00500	"	0.0333		117	30-120			
Benzo (a) anthracene	0.0330	0.00500	"	0.0333		99.1	30-120			
Benzo (a) pyrene	0.0321	0.00500	"	0.0333		96.3	30-120			
Benzo (b) fluoranthene	0.0321	0.00500	"	0.0333		96.4	30-120			
Benzo (k) fluoranthene	0.0380	0.00500	"	0.0333		114	30-120			
Chrysene	0.0386	0.00500	"	0.0333		116	30-120			
Dibenz (a,h) anthracene	0.0259	0.00500	"	0.0333		77.8	30-120			
Fluoranthene	0.0363	0.00500	"	0.0333		109	30-120			
Fluorene	0.0378	0.00500	"	0.0333		114	30-120			
Indeno (1,2,3-cd) pyrene	0.0257	0.00500	"	0.0333		77.0	30-120			
Pyrene	0.0404	0.00500	"	0.0333		121	35-142			
1-Methylnaphthalene	0.0311	0.00500	"	0.0333		93.4	35-142			
2-Methylnaphthalene	0.0420	0.00500	"	0.0333		126	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0195		"	0.0333		58.4	40-150			
Surrogate: Fluoranthene-d10	0.0260		"	0.0333		78.1	40-150			

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: Mickey #7

Project Number: [none]  
Project Manager: Costin McQueen

**Reported:**  
03/14/24 07:27

## 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 BHB0879 - EPA 5030 Soil MS

##### Matrix Spike (BHB0879-MS1)

Source: 2402467-01

Prepared & Analyzed: 02/28/24

Acenaphthene	0.0160	0.00500	mg/kg	0.0333	ND	47.9	31-137		
Anthracene	0.0193	0.00500	"	0.0333	ND	58.0	30-120		
Benzo (a) anthracene	0.0182	0.00500	"	0.0333	ND	54.6	30-120		
Benzo (a) pyrene	0.0179	0.00500	"	0.0333	ND	53.7	30-120		
Benzo (b) fluoranthene	0.0149	0.00500	"	0.0333	ND	44.8	30-120		
Benzo (k) fluoranthene	0.0166	0.00500	"	0.0333	ND	49.9	30-120		
Chrysene	0.0188	0.00500	"	0.0333	ND	56.4	30-120		
Dibenz (a,h) anthracene	0.0149	0.00500	"	0.0333	ND	44.7	30-120		
Fluoranthene	0.0186	0.00500	"	0.0333	ND	55.9	30-120		
Fluorene	0.0173	0.00500	"	0.0333	ND	51.8	30-120		
Indeno (1,2,3-cd) pyrene	0.0144	0.00500	"	0.0333	ND	43.3	30-120		
Pyrene	0.0203	0.00500	"	0.0333	ND	60.9	35-142		
1-Methylnaphthalene	0.0194	0.00500	"	0.0333	ND	58.2	15-130		
2-Methylnaphthalene	0.0191	0.00500	"	0.0333	ND	57.4	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0158		"	0.0333		47.3	40-150		
Surrogate: Fluoranthene-d10	0.0134		"	0.0333		40.1	40-150		

##### Matrix Spike Dup (BHB0879-MSD1)

Source: 2402467-01

Prepared & Analyzed: 02/28/24

Acenaphthene	0.0177	0.00500	mg/kg	0.0333	ND	53.0	31-137	10.1	30
Anthracene	0.0214	0.00500	"	0.0333	ND	64.1	30-120	10.1	30
Benzo (a) anthracene	0.0201	0.00500	"	0.0333	ND	60.3	30-120	9.92	30
Benzo (a) pyrene	0.0195	0.00500	"	0.0333	ND	58.4	30-120	8.36	30
Benzo (b) fluoranthene	0.0163	0.00500	"	0.0333	ND	49.0	30-120	9.03	30
Benzo (k) fluoranthene	0.0178	0.00500	"	0.0333	ND	53.4	30-120	6.77	30
Chrysene	0.0201	0.00500	"	0.0333	ND	60.4	30-120	6.92	30
Dibenz (a,h) anthracene	0.0164	0.00500	"	0.0333	ND	49.3	30-120	9.81	30
Fluoranthene	0.0200	0.00500	"	0.0333	ND	60.0	30-120	7.02	30
Fluorene	0.0186	0.00500	"	0.0333	ND	55.9	30-120	7.62	30
Indeno (1,2,3-cd) pyrene	0.0157	0.00500	"	0.0333	ND	47.2	30-120	8.69	30
Pyrene	0.0213	0.00500	"	0.0333	ND	63.8	35-142	4.63	30
1-Methylnaphthalene	0.0144	0.00500	"	0.0333	ND	43.3	15-130	29.3	50
2-Methylnaphthalene	0.0176	0.00500	"	0.0333	ND	52.8	15-130	8.41	50
Surrogate: 2-Methylnaphthalene-d10	0.0142		"	0.0333		42.7	40-150		
Surrogate: Fluoranthene-d10	0.0146		"	0.0333		43.8	40-150		

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: Mickey #7

Project Number: [none]  
Project Manager: Costin McQueen

**Reported:**  
03/14/24 07:27

**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 BHC0181 - EPA 3050B**

**Blank (BHC0181-BLK1)**

Prepared: 03/07/24 Analyzed: 03/11/24

Boron ND 2.00 mg/L

**LCS (BHC0181-BS1)**

Prepared: 03/07/24 Analyzed: 03/11/24

Boron 4.68 2.00 mg/L 5.00 93.6 80-120

**Duplicate (BHC0181-DUP1)**

**Source: 2402448-01**

Prepared: 03/07/24 Analyzed: 03/11/24

Boron ND 2.00 mg/L 0.0120 200 20 QR-01

**Matrix Spike (BHC0181-MS1)**

**Source: 2402448-01**

Prepared: 03/07/24 Analyzed: 03/11/24

Boron 4.52 2.00 mg/L 5.00 0.0120 90.2 75-125

**Matrix Spike Dup (BHC0181-MSD1)**

**Source: 2402448-01**

Prepared: 03/07/24 Analyzed: 03/11/24

Boron 4.40 2.00 mg/L 5.00 0.0120 87.8 75-125 2.69 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: Mickey #7

Project Number: [none]  
Project Manager: Costin McQueen

**Reported:**  
03/14/24 07:27

**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 BHC0007 - EPA 3050B**

**Blank (BHC0007-BLK1)**

Prepared: 03/01/24 Analyzed: 03/04/24

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 (BHC0007-BS1)**

Prepared: 03/01/24 Analyzed: 03/04/24

Arsenic	44.6	0.200	mg/kg wet	40.0	112	80-120
Barium	44.1	0.400	"	40.0	110	80-120
Cadmium	2.03	0.200	"	2.00	102	80-120
Copper	39.6	0.400	"	40.0	99.0	80-120
Lead	20.1	0.200	"	20.0	100	80-120
Nickel	39.3	0.400	"	40.0	98.2	80-120
Silver	2.00	0.0200	"	2.00	100	80-120
Zinc	39.1	0.400	"	40.0	97.8	80-120
Selenium	4.74	0.260	"	4.00	119	80-120

**Duplicate (BHC0007-DUP1)**

Source: 2402396-01

Prepared: 03/01/24 Analyzed: 03/04/24

Arsenic	2.91	0.200	mg/kg dry	2.78	4.66	20
Barium	75.1	0.400	"	89.2	17.2	20
Cadmium	0.113	0.200	"	0.102	10.1	20
Copper	2.45	0.400	"	2.49	1.68	20
Lead	6.40	0.200	"	5.93	7.70	20
Nickel	3.58	0.400	"	3.27	9.20	20
Silver	0.0312	0.0200	"	0.0308	1.46	20
Zinc	14.0	0.400	"	13.9	0.514	20
Selenium	ND	0.260	"	ND		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: Mickey #7

Project Number: [none]  
Project Manager: Costin McQueen

**Reported:**  
03/14/24 07:27

**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 BHC0007 - EPA 3050B**

Matrix Spike (BHC0007-MS1)		Source: 2402396-01			Prepared: 03/01/24 Analyzed: 03/04/24					
Arsenic	49.3	0.200	mg/kg dry	45.3	2.78	103	75-125			
Barium	119	0.400	"	45.3	89.2	65.2	75-125			QM-05
Cadmium	2.37	0.200	"	2.26	0.102	100	75-125			
Copper	31.2	0.400	"	45.3	2.49	63.4	75-125			QM-05
Lead	28.5	0.200	"	22.6	5.93	99.8	75-125			
Nickel	32.2	0.400	"	45.3	3.27	63.8	75-125			QM-05
Silver	2.21	0.0200	"	2.26	0.0308	96.4	75-125			
Zinc	43.5	0.400	"	45.3	13.9	65.5	75-125			QM-05
Selenium	7.26	0.260	"	4.53	ND	160	75-125			QM-05

Matrix Spike Dup (BHC0007-MSD1)		Source: 2402396-01			Prepared: 03/01/24 Analyzed: 03/04/24					
Arsenic	49.8	0.200	mg/kg dry	45.3	2.78	104	75-125	1.06	25	
Barium	122	0.400	"	45.3	89.2	71.7	75-125	2.45	25	QM-05
Cadmium	2.44	0.200	"	2.26	0.102	103	75-125	3.05	25	
Copper	31.3	0.400	"	45.3	2.49	63.6	75-125	0.288	25	QM-05
Lead	29.4	0.200	"	22.6	5.93	104	75-125	2.98	25	
Nickel	32.3	0.400	"	45.3	3.27	64.2	75-125	0.491	25	QM-05
Silver	2.27	0.0200	"	2.26	0.0308	98.9	75-125	2.46	25	
Zinc	43.6	0.400	"	45.3	13.9	65.7	75-125	0.224	25	QM-05
Selenium	7.07	0.260	"	4.53	ND	156	75-125	2.55	25	QM-05

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: Mickey #7

Project Number: [none]  
Project Manager: Costin McQueen

**Reported:**  
03/14/24 07:27

**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 BHC0305 - 3060A Mod**

**Blank (BHC0305-BLK1)**

Prepared: 03/12/24 Analyzed: 03/13/24

Chromium, Hexavalent ND 0.30 mg/kg wet

**LCS (BHC0305-BS1)**

Prepared: 03/12/24 Analyzed: 03/13/24

Chromium, Hexavalent 25.3 0.30 mg/kg wet 25.0 101 80-120

**Duplicate (BHC0305-DUP1)**

**Source: 2402447-01**

Prepared: 03/12/24 Analyzed: 03/13/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

**Matrix Spike (BHC0305-MS1)**

**Source: 2402447-01**

Prepared: 03/12/24 Analyzed: 03/13/24

Chromium, Hexavalent 32.8 0.30 mg/kg dry 30.0 ND 109 75-125

**Matrix Spike Dup (BHC0305-MSD1)**

**Source: 2402447-01**

Prepared: 03/12/24 Analyzed: 03/13/24

Chromium, Hexavalent 32.9 0.30 mg/kg dry 30.0 ND 110 75-125 0.183 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: Mickey #7

Project Number: [none]  
Project Manager: Costin McQueen

**Reported:**  
03/14/24 07:27

**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 BHB0864 - General Preparation**

**Blank (BHB0864-BLK1)**

Prepared: 02/27/24 Analyzed: 03/01/24

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

**LCS (BHB0864-BS1)**

Prepared: 02/27/24 Analyzed: 03/01/24

Calcium	6.40	0.0500	mg/L wet	5.00	128	70-130
Magnesium	5.67	0.0500	"	5.00	113	70-130
Sodium	5.65	0.0500	"	5.00	113	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: Mickey #7

Project Number: [none]

Project Manager: Costin McQueen

**Reported:**  
03/14/24 07:27

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

**Summit Scientific**

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

**Batch BHC0072 - General Preparation**

**Duplicate (BHC0072-DUP1)**

**Source: 2402366-01**

**Prepared & Analyzed: 03/05/24**

% Solids	93.1	%		93.4		0.318	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: Mickey #7

Project Number: [none]  
Project Manager: Costin McQueen

**Reported:**  
03/14/24 07:27

**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 BHB0866 - General Preparation**

**Blank (BHB0866-BLK1)**

Prepared: 02/27/24 Analyzed: 02/28/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BHB0866-BS1)**

Prepared: 02/27/24 Analyzed: 02/28/24

Specific Conductance (EC) 0.148 0.0100 mmhos/cm 0.150 98.9 95-105

**Duplicate (BHB0866-DUP1)**

**Source: 2402467-01**

Prepared: 02/27/24 Analyzed: 02/28/24

Specific Conductance (EC) 0.122 0.0100 mmhos/cm 0.124 1.14 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: Mickey #7

Project Number: [none]  
Project Manager: Costin McQueen

**Reported:**  
03/14/24 07:27

**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 BHB0867 - General Preparation**

**LCS (BHB0867-BS1)**

Prepared: 02/27/24 Analyzed: 02/28/24

pH	9.13	pH Units	9.18	99.5	95-105
----	------	----------	------	------	--------

**Duplicate (BHB0867-DUP1)**

Source: 2402467-01

Prepared: 02/27/24 Analyzed: 02/28/24

pH	8.75	pH Units	8.75	0.00	20
----	------	----------	------	------	----

Summit Scientific

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



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Mickey #7

Project Number: [none]  
Project Manager: Costin McQueen

**Reported:**  
03/14/24 07:27

### Notes and Definitions

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-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
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