

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.



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

Lab ID	Page 1 of 1
2402409	

Send Data To:		Send Invoice To:	
Client: Civitas Resources	Project Manager: Costin McQueen	Company: Civitas	
Address: 650 Southgate Dr	E-Mail: C.McQueen@Civitasresources.com	Project Name/Location: Mickey #7	
City/State/Zip: Windsor, CO 80550	C.Frost@Civitasresources.com	AFE#: C/C: COX0920	
Phone: 720-438-9064	Project Name: Mickey #7	PO/Billing Codes: m/m: 8520.162	
Sampler Name: Com Frost	Project Number:	Contact: Costin McQueen	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested	Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #		
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: Com Frost	Date/Time: 2-26-24/5:30 pm	Received by: [Signature]	Date/Time: 2-27-24/10:30	TAT Business Days	Field DO	Notes:
				Same Day <input checked="" type="checkbox"/>	Field EC	
Relinquished by: SL	Date/Time: 2-27-24/10:30	Received by: [Signature]	Date/Time: 2-27-24/10:30	1 Day <input type="checkbox"/>	Field ORP	
				2 Days <input type="checkbox"/>	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days <input type="checkbox"/>	Field Temp.	
				Standard <input type="checkbox"/>	Field Turb.	
Temperature Upon Receipt: 6.6	Corrected Temperature: e	IR gun #: 1	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2402469

Client: Cintas Client Project ID: Mickey #7

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

-

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

Temp (°C) 6.6 Thermometer # 1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	-			on ICE
If custody seals are present, are they intact? ⁽¹⁾	-			
Are samples due within 48 hours present?	-			Sameday
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		-		
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	-			
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	-			
Were all samples received intact? ⁽¹⁾	✓			
Was adequate sample volume provided? ⁽¹⁾	✓			
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	✓			
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	✓			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			✓	"
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.			✓	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.			✓	
If dissolved metals are requested, were samples field filtered?			✓	
Additional Comments (if any):				

⁽¹⁾ 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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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	"	"	"	"	"	"	
Benzo (a) pyrene	0.00573	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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

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

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
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		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

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		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

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

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: <i>o</i> -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: <i>o</i> -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: <i>o</i> -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: <i>o</i> -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

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

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		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

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			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0158</i>		<i>"</i>	<i>0.0333</i>		<i>47.3</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0134</i>		<i>"</i>	<i>0.0333</i>		<i>40.1</i>	<i>40-150</i>			

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	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0142</i>		<i>"</i>	<i>0.0333</i>		<i>42.7</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0146</i>		<i>"</i>	<i>0.0333</i>		<i>43.8</i>	<i>40-150</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: 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	Result	Reporting		Spike Level	Source Result	%REC		RPD	Limit	Notes
		Limit	Units			%REC	Limits			

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

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		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

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

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

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

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

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		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

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	Source	%REC		RPD		Notes
		Limit	Units	Level	Result	%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