

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

August 22, 2024

Justin Onwiler

ERM

555 17th St

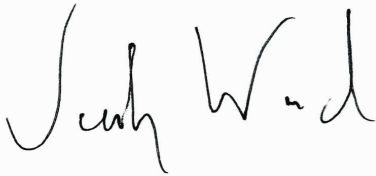
Denver, CO 80202

RE: Tudor

Work Order #2408189

Enclosed are the results of analyses for samples received by Summit Scientific on 08/19/24 16:12. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink that reads "Jacob Wood". The signature is written in a cursive style with a large initial "J" and a distinct "W".

Jacob Wood For Paul Shrewsbury

President



ERM
555 17th St
Denver CO, 80202

Project: Tudor
Project Number: 0736294
Project Manager: Justin Onwiler

Reported:
08/22/24 12:37

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
27627-BG-05-2-20240819	2408189-01	Soil	08/19/24 08:55	08/19/24 16:12
27627-BG-05-4-20240819	2408189-02	Soil	08/19/24 09:05	08/19/24 16:12
27627-BG-05-6-20240819	2408189-03	Soil	08/19/24 09:10	08/19/24 16:12
27627-BG-06-2-20240819	2408189-04	Soil	08/19/24 09:05	08/19/24 16:12
27627-BG-06-4-20240819	2408189-05	Soil	08/19/24 09:10	08/19/24 16:12
27627-BG-06-6-20240819	2408189-06	Soil	08/19/24 09:20	08/19/24 16:12
27627-BG-07-2-20240819	2408189-07	Soil	08/19/24 09:30	08/19/24 16:12
27627-BG-07-4-20240819	2408189-08	Soil	08/19/24 09:40	08/19/24 16:12
27627-BG-07-6-20240819	2408189-09	Soil	08/19/24 09:50	08/19/24 16:12
27627-BG-08-2-20240819	2408189-10	Soil	08/19/24 09:20	08/19/24 16:12
27627-BG-08-4-20240819	2408189-11	Soil	08/19/24 09:25	08/19/24 16:12
27627-BG-08-6-20240819	2408189-12	Soil	08/19/24 09:30	08/19/24 16:12

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S₂

S2 Work Order# 2408189

Sample Receipt Checklist

Client: ERM Client Project ID: Tudor

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

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

Temp (°C)

Thermometer #

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

Additional Comments (if any):

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

AS

Custodian Printed Name

8/19/24

Date/Time



ERM
555 17th St
Denver CO, 80202

Project: Tudor
Project Number: 0736294
Project Manager: Justin Onwiler

Reported:
08/22/24 12:37

27627-BG-05-2-20240819
2408189-01 (Soil)


Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/19/24 08:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.69		pH Units	1	BHH0522	08/20/24	08/21/24	EPA 9045D	

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Project: Tudor
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Reported:
08/22/24 12:37

27627-BG-05-4-20240819
2408189-02 (Soil)


Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/19/24 09:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	7.48		pH Units	1	BHH0522	08/20/24	08/21/24	EPA 9045D	

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Reported:
08/22/24 12:37

27627-BG-05-6-20240819
2408189-03 (Soil)


Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/19/24 09:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	6.86		pH Units	1	BHH0522	08/20/24	08/21/24	EPA 9045D	

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Reported:
08/22/24 12:37

27627-BG-06-2-20240819
2408189-04 (Soil)


Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/19/24 09:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.29		pH Units	1	BHH0522	08/20/24	08/21/24	EPA 9045D	

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Project: Tudor
Project Number: 0736294
Project Manager: Justin Onwiler

Reported:
08/22/24 12:37

27627-BG-06-4-20240819
2408189-05 (Soil)


Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/19/24 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.42		pH Units	1	BHH0522	08/20/24	08/21/24	EPA 9045D	

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Reported:
08/22/24 12:37

27627-BG-06-6-20240819
2408189-06 (Soil)


Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/19/24 09:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	7.30		pH Units	1	BHH0522	08/20/24	08/21/24	EPA 9045D	

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Reported:
08/22/24 12:37

27627-BG-07-2-20240819
2408189-07 (Soil)


Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/19/24 09:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	7.62		pH Units	1	BHH0522	08/20/24	08/21/24	EPA 9045D	

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Reported:
08/22/24 12:37

27627-BG-07-4-20240819
2408189-08 (Soil)


Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/19/24 09:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	7.29		pH Units	1	BHH0522	08/20/24	08/21/24	EPA 9045D	

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Reported:
08/22/24 12:37

27627-BG-07-6-20240819
2408189-09 (Soil)


Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/19/24 09:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	7.57		pH Units	1	BHH0522	08/20/24	08/21/24	EPA 9045D	

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Reported:
08/22/24 12:37

27627-BG-08-2-20240819
2408189-10 (Soil)


Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/19/24 09:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	7.62		pH Units	1	BHH0522	08/20/24	08/21/24	EPA 9045D	

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Reported:
08/22/24 12:37

27627-BG-08-4-20240819
2408189-11 (Soil)


Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/19/24 09:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	7.34		pH Units	1	BHH0522	08/20/24	08/21/24	EPA 9045D	

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Reported:
08/22/24 12:37

27627-BG-08-6-20240819
2408189-12 (Soil)


Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/19/24 09:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	7.24		pH Units	1	BHH0522	08/20/24	08/21/24	EPA 9045D	

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Reported:
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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 BHH0522 - General Preparation

LCS (BHH0522-BS1)

Prepared: 08/20/24 Analyzed: 08/21/24

pH	9.22		pH Units	9.18	100	95-105			
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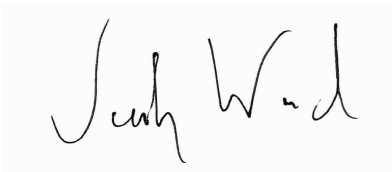
Duplicate (BHH0522-DUP1)

Source: 2408189-01

Prepared: 08/20/24 Analyzed: 08/21/24

pH	6.90		pH Units	6.69		3.09	20		
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Reported:
08/22/24 12:37

Notes and Definitions

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