

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

July 18, 2023

Jacob Whritenour

Tasman Geosciences

6855 W. 119th Ave.

Broomfield, CO 80020

RE: Noble - Rural 21-31

Work Order #2306216

Enclosed are the results of analyses for samples received by Summit Scientific on 06/12/23 17:35. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mikayla Axtell For Paul Shrewsbury

President



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

Project: Noble - Rural 21-31

Project Number: UWRWE-A3077-ABN 27715

Project Manager: Jacob Whritenour

Reported:
07/18/23 11:20

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL01-A@5'	2306216-01	Soil	06/12/23 12:07	06/12/23 17:35
FL01-B@5'	2306216-02	Soil	06/12/23 13:40	06/12/23 17:35

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: Noble/Tasman		Project Manager: Jake Whritenour		Company: Noble	
Address: 6855 W. 119th Ave.		E-Mail: Jwhritenour@tasman-geo.com		Project Name/Location:	
City/State/Zip: Broomfield/CO/ 80020		Project Name: <u>Rural 21-31</u>		AFE#: <u>UWR6E-A3077-ABIV</u>	
Phone: 937-554-5108		Project Number: <u>27715</u>		PO/Billing Codes:	
Sampler Name: Molly Parks				Contact: <u>Wade F.</u>	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Air-Canister #	Other	Analysis Requested							Special Instructions
					HCl	HNO3	None	Other	Water	Soil			Metals - 915	VOC - 915	TPH - 915	PAH - 915	SAR, EC, pH	Boron - HWS	HOLD	
1	F101-A @ 5'	6-12-23	1207	2			X			X			X	X	X	X	X	X		SAR, EC, pH by saturated paste
2	F101-B @ 5'	6-12-23	1340	2			X			X			X	X	X	X	X	X		
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				

Relinquished by: <u>MP</u>	Date/Time: <u>6-12-23 / 1548</u>	Received by: <u>Tasman Lock Box</u>	Date/Time: <u>6-12-23 / 1548</u>	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by: <u>Tasman Lock Box</u>	Date/Time: <u>6-12-23 / 1735</u>	Received by: <u>[Signature]</u>	Date/Time: <u>6-12-23 / 1735</u>	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	X Field Turb.	
Temperature Upon Receipt: <u>12.3</u>	Corrected Temperature: <u>6</u>	IR gun #: <u>1</u>	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order # 2306216

Client: Noble Trasmann Client Project ID: Rural 21-31

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

-

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

Temp (°C) Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ON ICE
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input 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

6/12/23

Date/Time

13



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

Project: Noble - Rural 21-31

Project Number: UWRWE-A3077-ABN 27715
Project Manager: Jacob Whritenour

Reported:
07/18/23 11:20

FL01-A@5'
2306216-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/12/23 12:07**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGF0471	06/13/23	06/13/23	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: **06/12/23 12:07**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0374	93.6 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0389	97.4 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0401	100 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/12/23 12:07**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGF0480	06/13/23	06/14/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **06/12/23 12:07**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	12.2	97.5 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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PAH by EPA Method 8270D SIM

Date Sampled: **06/12/23 12:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGF0464	06/13/23	06/13/23	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	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: **06/12/23 12:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0212	63.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0267	80.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/12/23 12:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.136	0.0100	mg/L	1	BGF0472	06/13/23	06/18/23	EPA 6020B	

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

Date Sampled: **06/12/23 12:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences
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Project: Noble - Rural 21-31
Project Number: UWRWE-A3077-ABN 27715
Project Manager: Jacob Whritenour

Reported:
07/18/23 11:20

FL01-A@5'
2306216-01 (Soil)

Summit Scientific

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	315	0.0553	mg/L dry	1	BGF0467	06/13/23	06/17/23	EPA 6020B	
Magnesium	69.6	0.0553	"	"	"	"	"	"	
Sodium	39.6	0.0553	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **06/12/23 12:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.526	0.00100	units	1	BGF0630	06/17/23	06/17/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/12/23 12:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.4		%	1	BGF0473	06/13/23	06/13/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/12/23 12:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.364	0.0100	mmhos/cm	1	BGF0496	06/14/23	06/14/23	EPA 120.1	

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

Date Sampled: **06/12/23 12:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.08		pH Units	1	BGF0492	06/14/23	06/14/23	EPA 9045D	

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Reported:
07/18/23 11:20

FL01-B@5'
2306216-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/12/23 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGF0471	06/13/23	06/13/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.019	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.57	0.50	"	"	"	"	"	"	

Date Sampled: **06/12/23 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0356	89.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0388	97.0 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0397	99.2 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/12/23 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGF0480	06/13/23	06/14/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **06/12/23 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	12.1	96.5 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Date Sampled: **06/12/23 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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FL01-B@5'
2306216-02 (Soil)

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PAH by EPA Method 8270D SIM

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGF0464	06/13/23	06/13/23	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	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: **06/12/23 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0216	64.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0295	88.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/12/23 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.118	0.0100	mg/L	1	BGF0472	06/13/23	06/18/23	EPA 6020B	

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

Date Sampled: **06/12/23 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	34.2	0.0644	mg/L dry	1	BGF0467	06/13/23	06/17/23	EPA 6020B	
Magnesium	10.7	0.0644	"	"	"	"	"	"	
Sodium	2.75	0.0644	"	"	"	"	"	"	

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Reported:
07/18/23 11:20

FL01-B@5'
2306216-02 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **06/12/23 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.105	0.00100	units	1	BGF0630	06/17/23	06/17/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/12/23 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	77.6		%	1	BGF0473	06/13/23	06/13/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/12/23 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.328	0.0100	mmhos/cm	1	BGF0496	06/14/23	06/14/23	EPA 120.1	

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

Date Sampled: **06/12/23 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.93		pH Units	1	BGF0492	06/14/23	06/14/23	EPA 9045D	

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FL01-B@5'
2306216-02 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/12/23 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,3,5-Trimethylbenzene	0.0074	0.0050	mg/kg	1	BGF0766	06/21/23	06/22/23	EPA 8260B	

Date Sampled: **06/12/23 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0372	93.1 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0387	96.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0399	99.8 %	50-150		"	"	"	"	

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Reported:
07/18/23 11:20

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 BGF0471 - EPA 5030 Soil MS

Blank (BGF0471-BLK1)

Prepared: 06/06/23 Analyzed: 06/13/23

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	0.0382		"	0.0400		95.4	50-150				
Surrogate: Toluene-d8	0.0380		"	0.0400		95.0	50-150				
Surrogate: 4-Bromofluorobenzene	0.0413		"	0.0400		103	50-150				

LCS (BGF0471-BS1)

Prepared: 06/06/23 Analyzed: 06/13/23

Benzene	0.0688	0.0020	mg/kg	0.0750		91.7	70-130				
Toluene	0.0800	0.0050	"	0.0750		107	70-130				
Ethylbenzene	0.0940	0.0050	"	0.0750		125	70-130				
m,p-Xylene	0.185	0.010	"	0.150		123	70-130				
o-Xylene	0.0819	0.0050	"	0.0750		109	70-130				
1,2,4-Trimethylbenzene	0.0847	0.0050	"	0.0750		113	70-130				
1,3,5-Trimethylbenzene	0.0903	0.0050	"	0.0750		120	70-130				
Naphthalene	0.0654	0.0038	"	0.0750		87.2	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.0333		"	0.0400		83.2	50-150				
Surrogate: Toluene-d8	0.0385		"	0.0400		96.3	50-150				
Surrogate: 4-Bromofluorobenzene	0.0391		"	0.0400		97.8	50-150				

Matrix Spike (BGF0471-MS1)

Source: 2306210-01

Prepared: 06/06/23 Analyzed: 06/13/23

Benzene	0.0651	0.0020	mg/kg	0.0750	ND	86.8	70-130				
Toluene	0.0732	0.0050	"	0.0750	ND	97.6	70-130				
Ethylbenzene	0.0876	0.0050	"	0.0750	ND	117	70-130				
m,p-Xylene	0.172	0.010	"	0.150	ND	115	70-130				
o-Xylene	0.0779	0.0050	"	0.0750	ND	104	70-130				
1,2,4-Trimethylbenzene	0.0822	0.0050	"	0.0750	ND	110	70-130				
1,3,5-Trimethylbenzene	0.0846	0.0050	"	0.0750	ND	113	70-130				
Naphthalene	0.0705	0.0038	"	0.0750	ND	94.0	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.0348		"	0.0400		86.9	50-150				
Surrogate: Toluene-d8	0.0378		"	0.0400		94.5	50-150				
Surrogate: 4-Bromofluorobenzene	0.0404		"	0.0400		101	50-150				

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

Project: Noble - Rural 21-31

Project Number: UWRWE-A3077-ABN 27715
Project Manager: Jacob Whritenour

Reported:
07/18/23 11:20

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		

Batch BGF0471 - EPA 5030 Soil MS

Matrix Spike Dup (BGF0471-MSD1)	Source: 2306210-01			Prepared: 06/06/23		Analyzed: 06/13/23				
Benzene	0.0662	0.0020	mg/kg	0.0750	ND	88.3	70-130	1.64	30	
Toluene	0.0751	0.0050	"	0.0750	ND	100	70-130	2.51	30	
Ethylbenzene	0.0872	0.0050	"	0.0750	ND	116	70-130	0.446	30	
m,p-Xylene	0.173	0.010	"	0.150	ND	115	70-130	0.191	30	
o-Xylene	0.0770	0.0050	"	0.0750	ND	103	70-130	1.20	30	
1,2,4-Trimethylbenzene	0.0818	0.0050	"	0.0750	ND	109	70-130	0.512	30	
1,3,5-Trimethylbenzene	0.0853	0.0050	"	0.0750	ND	114	70-130	0.777	30	
Naphthalene	0.0730	0.0038	"	0.0750	ND	97.4	70-130	3.55	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0356</i>		<i>"</i>	<i>0.0400</i>		<i>88.9</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0383</i>		<i>"</i>	<i>0.0400</i>		<i>95.8</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0400</i>		<i>"</i>	<i>0.0400</i>		<i>100</i>	<i>50-150</i>			

Batch BGF0766 - EPA 5030 Soil MS

Blank (BGF0766-BLK1)				Prepared: 06/21/23		Analyzed: 06/22/23				
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	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0345</i>		<i>"</i>	<i>0.0400</i>		<i>86.3</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0397</i>		<i>"</i>	<i>0.0400</i>		<i>99.3</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0400</i>		<i>"</i>	<i>0.0400</i>		<i>99.9</i>	<i>50-150</i>			

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Broomfield CO, 80020

Project: Noble - Rural 21-31
Project Number: UWRWE-A3077-ABN 27715
Project Manager: Jacob Whritenour

Reported:
07/18/23 11:20

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 BGF0766 - EPA 5030 Soil MS

LCS (BGF0766-BS1)

Prepared: 06/21/23 Analyzed: 06/22/23

Benzene	0.0983	0.0020	mg/kg	0.100		98.3	70-130			
Toluene	0.0784	0.0050	"	0.100		78.4	70-130			
Ethylbenzene	0.0869	0.0050	"	0.100		86.9	70-130			
m,p-Xylene	0.174	0.010	"	0.200		86.9	70-130			
o-Xylene	0.0787	0.0050	"	0.100		78.7	70-130			
1,2,4-Trimethylbenzene	0.0812	0.0050	"	0.100		81.2	70-130			
1,3,5-Trimethylbenzene	0.0844	0.0050	"	0.100		84.4	70-130			
Naphthalene	0.0710	0.0038	"	0.100		71.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0374		"	0.0400		93.4	50-150			
Surrogate: Toluene-d8	0.0396		"	0.0400		99.0	50-150			
Surrogate: 4-Bromofluorobenzene	0.0404		"	0.0400		101	50-150			

Matrix Spike (BGF0766-MS1)

Source: 2306190-02

Prepared: 06/21/23 Analyzed: 06/22/23

Benzene	0.0984	0.0020	mg/kg	0.100	ND	98.4	70-130			
Toluene	0.0793	0.0050	"	0.100	ND	79.3	70-130			
Ethylbenzene	0.0938	0.0050	"	0.100	ND	93.8	70-130			
m,p-Xylene	0.186	0.010	"	0.200	ND	93.0	70-130			
o-Xylene	0.0827	0.0050	"	0.100	ND	82.7	70-130			
1,2,4-Trimethylbenzene	0.0867	0.0050	"	0.100	ND	86.7	70-130			
1,3,5-Trimethylbenzene	0.0911	0.0050	"	0.100	ND	91.1	70-130			
Naphthalene	0.0745	0.0038	"	0.100	ND	74.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0342		"	0.0400		85.5	50-150			
Surrogate: Toluene-d8	0.0381		"	0.0400		95.2	50-150			
Surrogate: 4-Bromofluorobenzene	0.0397		"	0.0400		99.3	50-150			

Matrix Spike Dup (BGF0766-MSD1)

Source: 2306190-02

Prepared: 06/21/23 Analyzed: 06/22/23

Benzene	0.0971	0.0020	mg/kg	0.100	ND	97.1	70-130	1.32	30	
Toluene	0.0767	0.0050	"	0.100	ND	76.7	70-130	3.31	30	
Ethylbenzene	0.0865	0.0050	"	0.100	ND	86.5	70-130	8.09	30	
m,p-Xylene	0.171	0.010	"	0.200	ND	85.5	70-130	8.49	30	
o-Xylene	0.0783	0.0050	"	0.100	ND	78.3	70-130	5.48	30	
1,2,4-Trimethylbenzene	0.0802	0.0050	"	0.100	ND	80.2	70-130	7.73	30	
1,3,5-Trimethylbenzene	0.0838	0.0050	"	0.100	ND	83.8	70-130	8.40	30	
Naphthalene	0.0739	0.0038	"	0.100	ND	73.9	70-130	0.768	30	
Surrogate: 1,2-Dichloroethane-d4	0.0328		"	0.0400		82.0	50-150			
Surrogate: Toluene-d8	0.0391		"	0.0400		97.6	50-150			
Surrogate: 4-Bromofluorobenzene	0.0391		"	0.0400		97.8	50-150			

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6855 W. 119th Ave.
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Project: Noble - Rural 21-31

Project Number: UWRWE-A3077-ABN 27715
Project Manager: Jacob Whritenour

Reported:
07/18/23 11:20

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 BGF0480 - EPA 3550A

Blank (BGF0480-BLK1)

Prepared & Analyzed: 06/13/23

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	11.9		"	12.5		95.5	30-150				

LCS (BGF0480-BS1)

Prepared & Analyzed: 06/13/23

C10-C28 (DRO)	449	50	mg/kg	500		89.8	70-130				
Surrogate: <i>o</i> -Terphenyl	11.7		"	12.5		93.3	30-150				

Matrix Spike (BGF0480-MS1)

Source: 2306210-01

Prepared & Analyzed: 06/13/23

C10-C28 (DRO)	421	50	mg/kg	500	18.5	80.5	70-130				
Surrogate: <i>o</i> -Terphenyl	11.5		"	12.5		91.9	30-150				

Matrix Spike Dup (BGF0480-MSD1)

Source: 2306210-01

Prepared & Analyzed: 06/13/23

C10-C28 (DRO)	465	50	mg/kg	500	18.5	89.3	70-130	9.89	20		
Surrogate: <i>o</i> -Terphenyl	12.3		"	12.5		98.7	30-150				

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Project: Noble - Rural 21-31

Project Number: UWRWE-A3077-ABN 27715
Project Manager: Jacob Whritenour

Reported:
07/18/23 11:20

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 BGF0464 - EPA 5030 Soil MS

Blank (BGF0464-BLK1)

Prepared & Analyzed: 06/13/23

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	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	0.0279		"	0.0333		83.6	40-150			
<i>Surrogate: Fluoranthene-d10</i>	0.0345		"	0.0333		104	40-150			

LCS (BGF0464-BS1)

Prepared & Analyzed: 06/13/23

Acenaphthene	0.0328	0.00500	mg/kg	0.0333		98.5	31-137			
Anthracene	0.0347	0.00500	"	0.0333		104	30-120			
Benzo (a) anthracene	0.0292	0.00500	"	0.0333		87.5	30-120			
Benzo (a) pyrene	0.0278	0.00500	"	0.0333		83.5	30-120			
Benzo (b) fluoranthene	0.0294	0.00500	"	0.0333		88.3	30-120			
Benzo (k) fluoranthene	0.0315	0.00500	"	0.0333		94.5	30-120			
Chrysene	0.0345	0.00500	"	0.0333		103	30-120			
Dibenz (a,h) anthracene	0.0212	0.00500	"	0.0333		63.7	30-120			
Fluoranthene	0.0325	0.00500	"	0.0333		97.4	30-120			
Fluorene	0.0325	0.00500	"	0.0333		97.4	30-120			
Indeno (1,2,3-cd) pyrene	0.0189	0.00500	"	0.0333		56.7	30-120			
Pyrene	0.0360	0.00500	"	0.0333		108	35-142			
1-Methylnaphthalene	0.0268	0.00500	"	0.0333		80.4	35-142			
2-Methylnaphthalene	0.0287	0.00500	"	0.0333		86.0	35-142			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	0.0294		"	0.0333		88.2	40-150			
<i>Surrogate: Fluoranthene-d10</i>	0.0327		"	0.0333		98.2	40-150			

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Project: Noble - Rural 21-31
Project Number: UWRWE-A3077-ABN 27715
Project Manager: Jacob Whritenour

Reported:
07/18/23 11:20

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 BGF0464 - EPA 5030 Soil MS

Matrix Spike (BGF0464-MS1)	Source: 2306210-01			Prepared & Analyzed: 06/13/23							
Acenaphthene	0.0145	0.00500	mg/kg	0.0333	ND	43.4	31-137				
Anthracene	0.0134	0.00500	"	0.0333	ND	40.1	30-120				
Benzo (a) anthracene	0.0136	0.00500	"	0.0333	ND	40.9	30-120				
Benzo (a) pyrene	0.0154	0.00500	"	0.0333	ND	46.2	30-120				
Benzo (b) fluoranthene	0.0140	0.00500	"	0.0333	ND	42.1	30-120				
Benzo (k) fluoranthene	0.0160	0.00500	"	0.0333	ND	47.9	30-120				
Chrysene	0.0151	0.00500	"	0.0333	ND	45.3	30-120				
Dibenz (a,h) anthracene	0.0137	0.00500	"	0.0333	ND	41.2	30-120				
Fluoranthene	0.0134	0.00500	"	0.0333	ND	40.1	30-120				
Fluorene	0.0146	0.00500	"	0.0333	ND	43.9	30-120				
Indeno (1,2,3-cd) pyrene	0.0137	0.00500	"	0.0333	ND	41.0	30-120				
Pyrene	0.0144	0.00500	"	0.0333	ND	43.1	35-142				
1-Methylnaphthalene	0.0147	0.00500	"	0.0333	ND	44.0	15-130				
2-Methylnaphthalene	0.0136	0.00500	"	0.0333	ND	40.7	15-130				
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0151</i>		<i>"</i>	<i>0.0333</i>		<i>45.3</i>	<i>40-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0139</i>		<i>"</i>	<i>0.0333</i>		<i>41.6</i>	<i>40-150</i>				

Matrix Spike Dup (BGF0464-MSD1)	Source: 2306210-01			Prepared & Analyzed: 06/13/23							
Acenaphthene	0.0158	0.00500	mg/kg	0.0333	ND	47.3	31-137	8.70	30		
Anthracene	0.0151	0.00500	"	0.0333	ND	45.3	30-120	12.1	30		
Benzo (a) anthracene	0.0170	0.00500	"	0.0333	ND	51.1	30-120	22.2	30		
Benzo (a) pyrene	0.0154	0.00500	"	0.0333	ND	46.3	30-120	0.149	30		
Benzo (b) fluoranthene	0.0154	0.00500	"	0.0333	ND	46.2	30-120	9.34	30		
Benzo (k) fluoranthene	0.0150	0.00500	"	0.0333	ND	44.9	30-120	6.63	30		
Chrysene	0.0178	0.00500	"	0.0333	ND	53.3	30-120	16.2	30		
Dibenz (a,h) anthracene	0.0143	0.00500	"	0.0333	ND	42.9	30-120	4.06	30		
Fluoranthene	0.0158	0.00500	"	0.0333	ND	47.5	30-120	16.8	30		
Fluorene	0.0150	0.00500	"	0.0333	ND	44.9	30-120	2.32	30		
Indeno (1,2,3-cd) pyrene	0.0148	0.00500	"	0.0333	ND	44.4	30-120	7.93	30		
Pyrene	0.0193	0.00500	"	0.0333	ND	57.8	35-142	29.1	30		
1-Methylnaphthalene	0.0168	0.00500	"	0.0333	ND	50.3	15-130	13.5	50		
2-Methylnaphthalene	0.0167	0.00500	"	0.0333	ND	50.1	15-130	20.5	50		
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0174</i>		<i>"</i>	<i>0.0333</i>		<i>52.3</i>	<i>40-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0208</i>		<i>"</i>	<i>0.0333</i>		<i>62.5</i>	<i>40-150</i>				

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6855 W. 119th Ave.
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Project: Noble - Rural 21-31

Project Number: UWRWE-A3077-ABN 27715
Project Manager: Jacob Whritenour

Reported:
07/18/23 11:20

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

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

Batch BGF0472 - EPA 3050B

Blank (BGF0472-BLK1)

Prepared: 06/13/23 Analyzed: 06/18/23

Boron ND 0.0100 mg/L

LCS (BGF0472-BS1)

Prepared: 06/13/23 Analyzed: 06/18/23

Boron 4.87 0.0100 mg/L 5.00 97.3 80-120

Duplicate (BGF0472-DUP1)

Source: 2306213-01

Prepared: 06/13/23 Analyzed: 06/18/23

Boron 0.849 0.0100 mg/L 0.814 4.15 20

Matrix Spike (BGF0472-MS1)

Source: 2306213-01

Prepared: 06/13/23 Analyzed: 06/18/23

Boron 5.18 0.0100 mg/L 5.00 0.814 87.3 75-125

Matrix Spike Dup (BGF0472-MSD1)

Source: 2306213-01

Prepared: 06/13/23 Analyzed: 06/18/23

Boron 5.36 0.0100 mg/L 5.00 0.814 90.9 75-125 3.40 25

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Project: Noble - Rural 21-31

Project Number: UWRWE-A3077-ABN 27715
Project Manager: Jacob Whritenour

Reported:
07/18/23 11:20

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

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

Batch BGF0467 - General Preparation

Blank (BGF0467-BLK1)

Prepared: 06/13/23 Analyzed: 06/17/23

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

LCS (BGF0467-BS1)

Prepared: 06/13/23 Analyzed: 06/17/23

Calcium	4.99	0.0500	mg/L wet	5.00	99.8	70-130				
Magnesium	4.85	0.0500	"	5.00	96.9	70-130				
Sodium	4.87	0.0500	"	5.00	97.3	70-130				

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Project: Noble - Rural 21-31

Project Number: UWRWE-A3077-ABN 27715
Project Manager: Jacob Whritenour

Reported:
07/18/23 11:20

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

Summit Scientific

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

Batch BGF0473 - General Preparation

Duplicate (BGF0473-DUP1)

Source: 2305547-01

Prepared & Analyzed: 06/13/23

% Solids	90.3		%		90.1			0.244	20	
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Broomfield CO, 80020

Project: Noble - Rural 21-31

Project Number: UWRWE-A3077-ABN 27715
Project Manager: Jacob Whritenour

Reported:
07/18/23 11:20

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 BGF0496 - General Preparation

Blank (BGF0496-BLK1)

Prepared & Analyzed: 06/14/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGF0496-BS1)

Prepared & Analyzed: 06/14/23

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

Duplicate (BGF0496-DUP1)

Source: 2305670-04

Prepared & Analyzed: 06/14/23

Specific Conductance (EC) 1.08 0.0100 mmhos/cm 1.10 2.02 20

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Broomfield CO, 80020

Project: Noble - Rural 21-31

Project Number: UWRWE-A3077-ABN 27715
Project Manager: Jacob Whritenour

Reported:
07/18/23 11:20

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 BGF0492 - General Preparation

LCS (BGF0492-BS1)

Prepared & Analyzed: 06/14/23

pH 9.13 pH Units 9.18 99.5 95-105

Duplicate (BGF0492-DUP1)

Source: 2306215-01

Prepared & Analyzed: 06/14/23

pH 7.23 pH Units 7.12 1.53 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.



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

Project: Noble - Rural 21-31

Project Number: UWRWE-A3077-ABN 27715
Project Manager: Jacob Whritenour

Reported:
07/18/23 11:20

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