

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

February 28, 2025

Daniel Simpson
Tasman Geosciences
6855 W. 119th Ave.
Broomfield, CO 80020
RE: Noble - UPRC 31-12H6
Work Order #2501149

Enclosed are the results of analyses for samples received by Summit Scientific on 01/13/25 17:55. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Natalie Tessier". The signature is written in a cursive, flowing style.

Natalie Tessier For Paul Shrewsbury
President



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

Project: Noble - UPRC 31-12H6

Project Number: UWRWE-A4271-ABN

Project Manager: Daniel Simpson

Reported:
02/28/25 09:30

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BKG02@2'	2501149-01	Soil	01/13/25 10:28	01/13/25 17:55
BKG02@3'	2501149-02	Soil	01/13/25 10:31	01/13/25 17:55
BKG02@4'	2501149-03	Soil	01/13/25 10:33	01/13/25 17:55

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

Lab ID	Page 1 of 1
2501149	

Client: Tasman, Inc.	Send Data To: Project Manager: Daniel Simpson	Send Invoice To: Company: <u>Notc Energy</u>
Address: 6855 W. 119th Ave.	E-Mail: <u>tas-chevron-5@tasman-geo.com</u>	Project Name/Location: <u>UPRC 31-12H6</u>
City/State/Zip: Broomfield / CO/ 80020	RBUEUF27@chevron.com, <u>jason.davidson@chevron.com</u>	AFE#: <u>UWPWE-A4271-AES</u>
Phone: <u>303 487 1228</u>	Project Name: <u>UPRC 31-12H6</u>	PO/Billing Codes:
Sampler Name: J. Gustafson	Project Number:	Contact: <u>Mike Montoya</u>

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Analysis Requested							Special Instructions						
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	Metals - 915	VOC - 915	TPH - 915	PAH - 915	SAR, EC, pH		Boron - HWS	HOLD				
1	Bk602 @ 2'	1/13/25	1028	1			X										X						SAR, EC, pH by saturated paste	
2	Bk602 @ 3'		1031	1														X			X			
3	Bk602 @ 4'		1033	1																				
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								
13																								
14																								
15																								

Relinquished by: <u>M. M.</u>	Date/Time: <u>1/13/25 1613</u>	Received by: <u>Tasman Lockbox</u>	Date/Time: <u>1/13/25 1613</u>	TAT Business Days	Field DO	Notes:
Relinquished by: <u>Tasman lockbox</u>	Date/Time: <u>1/13/25 1755</u>	Received by: <u>[Signature]</u>	Date/Time: <u>1/13/25 1755</u>	Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
				Standard	<input checked="" type="checkbox"/> Field Turb.	
Temperature Upon Receipt: <u>4.8</u>	Corrected Temperature	IR gun #:			HNO3 lot #:	

S₂

Sample Receipt Checklist

S2 Work Order# 2501149

Client: Tasman Client Project ID: Bernhardt J31-200

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"/>	
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

1/13/25
Date/Time

3000 0 2



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

Project: Noble - UPRC 31-12H6

Project Number: UWRWE-A4271-ABN
Project Manager: Daniel Simpson

Reported:
02/28/25 09:30

BKG02@2'
2501149-01 (Soil)

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Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/13/25 10:28**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BIB1124	02/20/25	02/25/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/13/25 10:28**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	5.22	0.200		mg/kg dry	1	BIA1416	01/30/25	02/01/25	EPA 6020B	
Barium	169	0.400		"	"	"	"	"	"	
Cadmium	0.423	0.200		"	"	"	"	"	"	
Copper	6.79	0.400		"	"	"	"	"	"	
Lead	9.94	0.200		"	"	"	"	"	"	
Nickel	8.53	0.400		"	"	"	"	"	"	
Silver	0.0738	0.0200		"	"	"	"	"	"	
Zinc	27.4	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/13/25 10:28**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BIA1334	01/29/25	01/31/25	EPA 7196A	

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

Date Sampled: **01/13/25 10:28**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	46.5	0.0500		mg/L dry	1	BIB0150	02/05/25	02/08/25	EPA 6020B	
Magnesium	3.94	0.0500		"	"	"	"	"	"	
Sodium	21.9	0.0500		"	"	"	"	"	"	

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Project: Noble - UPRC 31-12H6
Project Number: UWRWE-A4271-ABN
Project Manager: Daniel Simpson

Reported:
02/28/25 09:30

BKG02@2'
2501149-01 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/13/25 10:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.828	0.00100	units	1	BIB0462	02/10/25	02/10/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/13/25 10:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.9		%	1	BIA1427	01/30/25	01/30/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/13/25 10:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.220	0.0100	mmhos/cm	1	BIB0145	02/05/25	02/06/25	EPA 120.1	

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

Date Sampled: **01/13/25 10:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.58		pH Units	1	BIB0137	02/05/25	02/06/25	EPA 9045D	

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Project: Noble - UPRC 31-12H6

Project Number: UWRWE-A4271-ABN
Project Manager: Daniel Simpson

Reported:
02/28/25 09:30

BKG02@3'
2501149-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/13/25 10:31**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIB1124	02/20/25	02/25/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/13/25 10:31**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	4.58	0.200	mg/kg dry	1	BIA1416	01/30/25	02/01/25	EPA 6020B	
Barium	123	0.400	"	"	"	"	"	"	
Cadmium	0.392	0.200	"	"	"	"	"	"	
Copper	6.41	0.400	"	"	"	"	"	"	
Lead	8.64	0.200	"	"	"	"	"	"	
Nickel	7.83	0.400	"	"	"	"	"	"	
Silver	0.0650	0.0200	"	"	"	"	"	"	
Zinc	25.3	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/13/25 10:31**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA1334	01/29/25	01/31/25	EPA 7196A	

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

Date Sampled: **01/13/25 10:31**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	37.7	0.0500	mg/L dry	1	BIB0150	02/05/25	02/08/25	EPA 6020B	
Magnesium	5.16	0.0500	"	"	"	"	"	"	
Sodium	19.2	0.0500	"	"	"	"	"	"	

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Project: Noble - UPRC 31-12H6
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Project Manager: Daniel Simpson

Reported:
02/28/25 09:30

BKG02@3'
2501149-02 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/13/25 10:31**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.778	0.00100	units	1	BIB0462	02/10/25	02/10/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/13/25 10:31**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.7		%	1	BIA1427	01/30/25	01/30/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/13/25 10:31**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.239	0.0100	mmhos/cm	1	BIB0145	02/05/25	02/06/25	EPA 120.1	

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

Date Sampled: **01/13/25 10:31**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.47		pH Units	1	BIB0137	02/05/25	02/06/25	EPA 9045D	

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Project: Noble - UPRC 31-12H6

Project Number: UWRWE-A4271-ABN
Project Manager: Daniel Simpson

Reported:
02/28/25 09:30

BKG02@4'
2501149-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/13/25 10:33**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIB1124	02/20/25	02/25/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/13/25 10:33**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	4.85	0.200	mg/kg dry	1	BIA1416	01/30/25	02/01/25	EPA 6020B	
Barium	148	0.400	"	"	"	"	"	"	
Cadmium	0.452	0.200	"	"	"	"	"	"	
Copper	7.55	0.400	"	"	"	"	"	"	
Lead	10.4	0.200	"	"	"	"	"	"	
Nickel	8.38	0.400	"	"	"	"	"	"	
Silver	0.0771	0.0200	"	"	"	"	"	"	
Zinc	28.4	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/13/25 10:33**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA1334	01/29/25	01/31/25	EPA 7196A	

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

Date Sampled: **01/13/25 10:33**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	37.4	0.0500	mg/L dry	1	BIB0150	02/05/25	02/08/25	EPA 6020B	
Magnesium	9.20	0.0500	"	"	"	"	"	"	
Sodium	11.7	0.0500	"	"	"	"	"	"	

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Project: Noble - UPRC 31-12H6
Project Number: UWRWE-A4271-ABN
Project Manager: Daniel Simpson

Reported:
02/28/25 09:30

BKG02@4'
2501149-03 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/13/25 10:33**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.444	0.00100	units	1	BIB0462	02/10/25	02/10/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/13/25 10:33**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.6		%	1	BIA1427	01/30/25	01/30/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/13/25 10:33**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.271	0.0100	mmhos/cm	1	BIB0145	02/05/25	02/06/25	EPA 120.1	

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

Date Sampled: **01/13/25 10:33**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.48		pH Units	1	BIB0137	02/05/25	02/06/25	EPA 9045D	

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Project: Noble - UPRC 31-12H6

Project Number: UWRWE-A4271-ABN
Project Manager: Daniel Simpson

Reported:
02/28/25 09:30

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

Summit Scientific

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

Batch BIB1124 - EPA 3050B

Blank (BIB1124-BLK1)				Prepared: 02/20/25 Analyzed: 02/25/25							
Boron	ND	2.00	mg/L								
LCS (BIB1124-BS1)				Prepared: 02/20/25 Analyzed: 02/25/25							
Boron	4.57	2.00	mg/L	5.00		91.4	80-120				
Duplicate (BIB1124-DUP1)				Source: 2501144-08				Prepared: 02/20/25 Analyzed: 02/25/25			
Boron	ND	2.00	mg/L		ND					20	
Matrix Spike (BIB1124-MS1)				Source: 2501144-08				Prepared: 02/20/25 Analyzed: 02/25/25			
Boron	4.70	2.00	mg/L	5.00	ND	94.1	75-125				
Matrix Spike Dup (BIB1124-MSD1)				Source: 2501144-08				Prepared: 02/20/25 Analyzed: 02/25/25			
Boron	4.75	2.00	mg/L	5.00	ND	95.0	75-125	0.973		25	

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02/28/25 09:30

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 BIA1416 - EPA 3050B

Blank (BIA1416-BLK1)

Prepared: 01/30/25 Analyzed: 02/01/25

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 (BIA1416-BS1)

Prepared: 01/30/25 Analyzed: 02/01/25

Arsenic	36.7	0.200	mg/kg wet	40.7	90.3	80-120
Barium	37.2	0.400	"	40.7	91.4	80-120
Cadmium	1.86	0.200	"	2.03	91.3	80-120
Copper	38.2	0.400	"	40.7	94.1	80-120
Lead	18.4	0.200	"	20.3	90.5	80-120
Nickel	37.5	0.400	"	40.7	92.2	80-120
Silver	1.85	0.0200	"	2.03	91.0	80-120
Zinc	37.9	0.400	"	40.7	93.2	80-120
Selenium	3.76	0.260	"	4.07	92.4	80-120

Duplicate (BIA1416-DUP1)

Source: 2501144-01

Prepared: 01/30/25 Analyzed: 02/01/25

Arsenic	2.24	0.200	mg/kg dry	2.14	4.50	20
Barium	58.6	0.400	"	68.4	15.5	20
Cadmium	0.220	0.200	"	0.227	3.17	20
Copper	4.04	0.400	"	4.16	2.97	20
Lead	5.70	0.200	"	5.77	1.23	20
Nickel	3.89	0.400	"	4.11	5.52	20
Silver	0.0230	0.0200	"	0.0301	26.7	20
Zinc	17.7	0.400	"	19.6	10.3	20
Selenium	ND	0.260	"	ND		20

QR-01

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Project Number: UWRWE-A4271-ABN
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Reported:
02/28/25 09:30

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 BIA1416 - EPA 3050B

Matrix Spike (BIA1416-MS1)

Source: 2501144-01

Prepared: 01/30/25 Analyzed: 02/01/25

Arsenic	39.5	0.200	mg/kg dry	43.9	2.14	85.1	75-125			
Barium	89.0	0.400	"	43.9	68.4	46.9	75-125			QM-05
Cadmium	2.18	0.200	"	2.19	0.227	88.9	75-125			
Copper	33.3	0.400	"	43.9	4.16	66.4	75-125			QM-05
Lead	24.6	0.200	"	21.9	5.77	85.7	75-125			
Nickel	34.4	0.400	"	43.9	4.11	69.1	75-125			QM-05
Silver	1.95	0.0200	"	2.19	0.0301	87.3	75-125			
Zinc	50.9	0.400	"	43.9	19.6	71.4	75-125			QM-05
Selenium	3.47	0.260	"	4.39	ND	79.0	75-125			

Matrix Spike Dup (BIA1416-MSD1)

Source: 2501144-01

Prepared: 01/30/25 Analyzed: 02/01/25

Arsenic	39.7	0.200	mg/kg dry	42.5	2.14	88.4	75-125	0.618	25	
Barium	118	0.400	"	42.5	68.4	116	75-125	27.9	25	QM-05
Cadmium	2.27	0.200	"	2.13	0.227	96.2	75-125	4.30	25	
Copper	32.5	0.400	"	42.5	4.16	66.6	75-125	2.49	25	QM-05
Lead	24.6	0.200	"	21.3	5.77	88.4	75-125	0.00721	25	
Nickel	32.4	0.400	"	42.5	4.11	66.4	75-125	6.23	25	QM-05
Silver	1.93	0.0200	"	2.13	0.0301	89.5	75-125	0.700	25	
Zinc	46.0	0.400	"	42.5	19.6	62.1	75-125	10.2	25	QM-05
Selenium	3.44	0.260	"	4.25	ND	80.9	75-125	0.786	25	

Summit Scientific

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

Project: Noble - UPRC 31-12H6
Project Number: UWRWE-A4271-ABN
Project Manager: Daniel Simpson

Reported:
02/28/25 09:30

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BIA1334 - 3060A Mod

Blank (BIA1334-BLK1)

Prepared: 01/29/25 Analyzed: 01/31/25

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BIA1334-BS1)

Prepared: 01/29/25 Analyzed: 01/31/25

Chromium, Hexavalent 26.0 0.30 mg/kg wet 25.8 101 80-120

Duplicate (BIA1334-DUP1)

Source: 2501132-01

Prepared: 01/29/25 Analyzed: 01/31/25

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BIA1334-MS1)

Source: 2501132-01

Prepared: 01/29/25 Analyzed: 01/31/25

Chromium, Hexavalent 29.3 0.30 mg/kg dry 28.0 ND 105 75-125

Matrix Spike Dup (BIA1334-MSD1)

Source: 2501132-01

Prepared: 01/29/25 Analyzed: 01/31/25

Chromium, Hexavalent 29.8 0.30 mg/kg dry 28.6 ND 104 75-125 1.85 20

Summit Scientific

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

Project: Noble - UPRC 31-12H6

Project Number: UWRWE-A4271-ABN
Project Manager: Daniel Simpson

Reported:
02/28/25 09:30

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 BIB0150 - General Preparation

Blank (BIB0150-BLK1)

Prepared: 02/05/25 Analyzed: 02/07/25

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

LCS (BIB0150-BS1)

Prepared: 02/05/25 Analyzed: 02/07/25

Calcium	5.92	0.0500	mg/L wet	5.00	118	70-130				
Magnesium	5.03	0.0500	"	5.00	101	70-130				
Sodium	5.52	0.0500	"	5.00	110	70-130				

Summit Scientific

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

Project: Noble - UPRC 31-12H6
 Project Number: UWRWE-A4271-ABN
 Project Manager: Daniel Simpson

Reported:
 02/28/25 09:30

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 BIA1427 - General Preparation

Duplicate (BIA1427-DUP1)		Source: 2501149-01			Prepared & Analyzed: 01/30/25			
% Solids	86.9		%		86.9		0.0398	20

Summit Scientific

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

Project: Noble - UPRC 31-12H6

Project Number: UWRWE-A4271-ABN
Project Manager: Daniel Simpson

Reported:
02/28/25 09:30

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 BIB0145 - General Preparation

Blank (BIB0145-BLK1)

Prepared: 02/05/25 Analyzed: 02/06/25

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BIB0145-BS1)

Prepared: 02/05/25 Analyzed: 02/06/25

Specific Conductance (EC) 1.38 0.0100 mmhos/cm 1.41 97.9 95-105

Duplicate (BIB0145-DUP1)

Source: 2501141-50

Prepared: 02/05/25 Analyzed: 02/06/25

Specific Conductance (EC) 0.0600 0.0100 mmhos/cm 0.0588 1.87 20

Summit Scientific

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

Project: Noble - UPRC 31-12H6

Project Number: UWRWE-A4271-ABN
Project Manager: Daniel Simpson

Reported:
02/28/25 09:30

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 BIB0137 - General Preparation

LCS (BIB0137-BS1)

Prepared: 02/05/25 Analyzed: 02/06/25

pH	9.22	pH Units	9.18	100	95-105
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Duplicate (BIB0137-DUP1)

Source: 2501141-50

Prepared: 02/05/25 Analyzed: 02/06/25

pH	8.82	pH Units	8.90	0.962	20
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Summit Scientific

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

Project: Noble - UPRC 31-12H6

Project Number: UWRWE-A4271-ABN
Project Manager: Daniel Simpson

Reported:
02/28/25 09:30

Notes and Definitions

- QR-01 Analyses are not controlled on RPD values from sample concentrations below the reporting limit. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
- 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