

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

March 10, 2025

Daniel Simpson  
Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield, CO 80020  
RE: Noble - UPRC 31-13H6  
Work Order #2501220

Enclosed are the results of analyses for samples received by Summit Scientific on 01/15/25 18:09. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Jacob Wood". The signature is written in a cursive style with a large initial "J" and a long, sweeping underline.

Jacob Wood For Paul Shrewsbury  
President



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

Project: Noble - UPRC 31-13H6

Project Number: UWRWE-A4271-ABN

Project Manager: Daniel Simpson

**Reported:**  
03/10/25 13:22

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL01-02@4'	2501220-01	Soil	01/15/25 10:43	01/15/25 18:09
FL01-03@2'	2501220-02	Soil	01/15/25 10:59	01/15/25 18:09

Summit Scientific

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

Lab ID	Page 1 of 1
2501220	

		<b>Send Data To:</b>	<b>Send Invoice To:</b>
Client: Tasman, Inc.		Project Manager: Daniel Simpson	Company: Noble Energy Inc.
Address: 6855 W. 119th Ave.		E-Mail: Tas-chevron-5@tasman-geo.com	Project Name/Location: UPRC 31-13H6
City/State/Zip: Broomfield / CO / 80020		rbueuf27@chevron.com, jason-davidson@chevron.com	AFE#: UWRWE-A4271-AES
Phone: 303-487-1228		Project Name: UPRC 31-13H6	PO/Billing Codes:
Sampler Name: J Gustafson		Project Number:	Contact: Mike Montoya

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	FL01-02@4'	1/15/25	1043	2			X			X				X	X	X	X	X	X		SAR, EC, pH by saturated paste	
2	FL01-03@2'	1/15/25	1059	2			X			X				X	X	X	X	X	X			
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						

Relinquished by: <i>Julie Lytle</i>	Date/Time: 1/15/25 1240	Received by: Tasman Lockbox	Date/Time: 1/15/25 1240	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by: <i>Tasman Lockbox</i>	Date/Time: 1/15/25 1809	Received by: <i>[Signature]</i>	Date/Time: 1/15/25 1809	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: 8-3	Corrected Temperature: 8	IR gun #: 1	HNO3 lot #:			

# S<sub>2</sub>

S2 Work Order# 2501220

### Sample Receipt Checklist

Client: Tasman/Noble Client Project ID: UPRC 31-13 HUReceived Via: H.D. EU /FedEx/UPS/USPS/Other  Airbill #: \_\_\_\_\_Matrix (Circle all that apply) Air/Soil/Water/Other  Temp (°C) 8.3 Thermometer # 1Bottle ware (Circle all that apply) Glass Jar/Voa/Amber/Poly/Other 

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	-			on 2CE
If custody seals are present, are they intact? <sup>(1)</sup>	-			
Are samples due within 48 hours?		-		
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , Cr VI), COD, Total Residual Chlorine (TRC)		-		
Is a chain-of-custody (COC) form present and filled out Completely? <sup>(1)</sup>	-			
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	-			
Were all samples received intact? <sup>(1)</sup>	✓			
Was adequate sample volume provided? <sup>(1)</sup>	✓			
Were samples provided in appropriate bottle ware?	✓			
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	✓			
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	✓			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			✓	
Are any samples/bottles preserved ( <b>excluding cooling</b> )? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.			✓	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> Record the pH in Comments.			✓	
If dissolved metals are requested, were samples field filtered?			✓	
Are there requested analysis that cannot be performed by S2? Note analysis in the comments column		✓		
<u>Additional Comments (if any):</u>				
<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.				

Control Form #: SRC-001

AS

Custodian Printed Name

1/15/25  
Date/Time



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

Project: Noble - UPRC 31-13H6  
Project Number: UWRWE-A4271-ABN  
Project Manager: Daniel Simpson

**Reported:**  
03/10/25 13:22

**FL01-02@4'**  
**2501220-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **01/15/25 10:43**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BIA1028	01/22/25	01/26/25	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: **01/15/25 10:43**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0407	102 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0402	100 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0398	99.6 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **01/15/25 10:43**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BIA1029	01/22/25	01/25/25	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **01/15/25 10:43**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	18.4	147 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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**2501220-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **01/15/25 10:43**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIA1096	01/23/25	01/29/25	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: **01/15/25 10:43**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0164	49.1 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0171	51.3 %	40-140		"	"	"	"	

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

Date Sampled: **01/15/25 10:43**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIB1278	02/23/25	03/05/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **01/15/25 10:43**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - UPRC 31-13H6  
Project Number: UWRWE-A4271-ABN  
Project Manager: Daniel Simpson

**Reported:**  
03/10/25 13:22

**FL01-02@4'**  
**2501220-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	5.32	0.200	mg/kg dry	1	BIA0906	01/20/25	01/20/25	EPA 6020B
Barium	56.7	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	4.05	0.400	"	"	"	"	"	"
Lead	6.66	0.200	"	"	"	"	"	"
Nickel	5.46	0.400	"	"	"	"	"	"
Silver	0.0206	0.0200	"	"	"	"	"	"
Zinc	25.7	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/15/25 10:43**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB0044	02/03/25	02/05/25	EPA 7196A	

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

Date Sampled: **01/15/25 10:43**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	186	0.0500	mg/L dry	1	BIB0387	02/07/25	02/20/25	EPA 6020B	
Magnesium	112	0.0500	"	"	"	"	"	"	
Sodium	121	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **01/15/25 10:43**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.73	0.00100	units	1	BIB1175	02/20/25	02/20/25	Calculation	

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

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**Reported:**  
03/10/25 13:22

**FL01-02@4'**  
**2501220-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **01/15/25 10:43**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	91.1			%	1	BIA0968	01/21/25	01/22/25	Calculation	

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

Date Sampled: **01/15/25 10:43**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	1.92	0.0100		mmhos/cm	1	BIB0389	02/07/25	02/14/25	EPA 120.1	

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

Date Sampled: **01/15/25 10:43**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.89			pH Units	1	BIB0388	02/07/25	02/14/25	EPA 9045D	

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Project: Noble - UPRC 31-13H6

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

**Reported:**  
03/10/25 13:22

**FL01-03@2'**  
**2501220-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **01/15/25 10:59**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BIA1028	01/22/25	01/26/25	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: **01/15/25 10:59**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0404	101 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0403	101 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0407	102 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **01/15/25 10:59**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BIA1029	01/22/25	01/25/25	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **01/15/25 10:59**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	16.7	134 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project Manager: Daniel Simpson

**Reported:**  
03/10/25 13:22

**FL01-03@2'**  
**2501220-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **01/15/25 10:59**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIA1096	01/23/25	01/30/25	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: **01/15/25 10:59**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0206	61.8 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0199	59.7 %	40-140		"	"	"	"	

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

Date Sampled: **01/15/25 10:59**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIB1278	02/23/25	03/05/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **01/15/25 10:59**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Manager: Daniel Simpson

**Reported:**  
03/10/25 13:22

**FL01-03@2'**  
**2501220-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	8.12	0.200	mg/kg dry	1	BIA0906	01/20/25	01/20/25	EPA 6020B
Barium	64.1	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	4.58	0.400	"	"	"	"	"	"
Lead	7.70	0.200	"	"	"	"	"	"
Nickel	5.92	0.400	"	"	"	"	"	"
Silver	0.0231	0.0200	"	"	"	"	"	"
Zinc	24.5	0.400	"	"	"	"	"	"
Selenium	0.486	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **01/15/25 10:59**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB0044	02/03/25	02/05/25	EPA 7196A	

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

Date Sampled: **01/15/25 10:59**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	49.2	0.0500	mg/L dry	1	BIB0387	02/07/25	02/20/25	EPA 6020B	
Magnesium	23.4	0.0500	"	"	"	"	"	"	
Sodium	18.4	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **01/15/25 10:59**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.541	0.00100	units	1	BIB1175	02/20/25	02/20/25	Calculation	

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

Date Sampled: **01/15/25 10:59**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Number: UWRWE-A4271-ABN  
Project Manager: Daniel Simpson

**Reported:**  
03/10/25 13:22

**FL01-03@2'**  
**2501220-02 (Soil)**

**Summit Scientific**

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

% Solids	86.6	%	1	BIA0968	01/21/25	01/22/25	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **01/15/25 10:59**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.455	0.0100	mmhos/cm	1	BIB0389	02/07/25	02/14/25	EPA 120.1	

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

Date Sampled: **01/15/25 10:59**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.28		pH Units	1	BIB0388	02/07/25	02/14/25	EPA 9045D	

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Project: Noble - UPRC 31-13H6

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

**Reported:**  
03/10/25 13:22

### 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 BIA1028 - EPA 5030 Soil MS

##### Blank (BIA1028-BLK1)

Prepared: 01/22/25 Analyzed: 01/25/25

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>	0.0409		"	0.0400		102	50-150			
<i>Surrogate: Toluene-d8</i>	0.0405		"	0.0400		101	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0399		"	0.0400		99.7	50-150			

##### LCS (BIA1028-BS1)

Prepared: 01/22/25 Analyzed: 01/25/25

Benzene	0.101	0.0020	mg/kg	0.100		101	70-130			
Toluene	0.0982	0.0050	"	0.100		98.2	70-130			
Ethylbenzene	0.0979	0.0050	"	0.100		97.9	70-130			
m,p-Xylene	0.192	0.010	"	0.200		96.1	70-130			
o-Xylene	0.0960	0.0050	"	0.100		96.0	70-130			
1,2,4-Trimethylbenzene	0.0909	0.0050	"	0.100		90.9	70-130			
1,3,5-Trimethylbenzene	0.0917	0.0050	"	0.100		91.7	70-130			
Naphthalene	0.0983	0.0038	"	0.100		98.3	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0404		"	0.0400		101	50-150			
<i>Surrogate: Toluene-d8</i>	0.0396		"	0.0400		99.0	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0402		"	0.0400		100	50-150			

##### Matrix Spike (BIA1028-MS1)

Source: 2501204-01

Prepared: 01/22/25 Analyzed: 01/25/25

Benzene	0.0963	0.0020	mg/kg	0.100	ND	96.3	70-130			
Toluene	0.0918	0.0050	"	0.100	ND	91.8	70-130			
Ethylbenzene	0.0871	0.0050	"	0.100	ND	87.1	70-130			
m,p-Xylene	0.172	0.010	"	0.200	ND	85.8	70-130			
o-Xylene	0.0862	0.0050	"	0.100	ND	86.2	70-130			
1,2,4-Trimethylbenzene	0.0782	0.0050	"	0.100	ND	78.2	70-130			
1,3,5-Trimethylbenzene	0.0785	0.0050	"	0.100	ND	78.5	70-130			
Naphthalene	0.0769	0.0038	"	0.100	ND	76.9	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0415		"	0.0400		104	50-150			
<i>Surrogate: Toluene-d8</i>	0.0407		"	0.0400		102	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0395		"	0.0400		98.8	50-150			

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

Project: Noble - UPRC 31-13H6  
Project Number: UWRWE-A4271-ABN  
Project Manager: Daniel Simpson

**Reported:**  
03/10/25 13:22

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Summit Scientific**

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

**Batch BIA1028 - EPA 5030 Soil MS**

<b>Matrix Spike Dup (BIA1028-MSD1)</b>	<b>Source: 2501204-01</b>			Prepared: 01/22/25 Analyzed: 01/25/25						
Benzene	0.0945	0.0020	mg/kg	0.100	ND	94.5	70-130	1.92	30	
Toluene	0.0890	0.0050	"	0.100	ND	89.0	70-130	3.05	30	
Ethylbenzene	0.0845	0.0050	"	0.100	ND	84.5	70-130	2.97	30	
m,p-Xylene	0.167	0.010	"	0.200	ND	83.6	70-130	2.55	30	
o-Xylene	0.0842	0.0050	"	0.100	ND	84.2	70-130	2.32	30	
1,2,4-Trimethylbenzene	0.0756	0.0050	"	0.100	ND	75.6	70-130	3.35	30	
1,3,5-Trimethylbenzene	0.0765	0.0050	"	0.100	ND	76.5	70-130	2.56	30	
Naphthalene	0.0683	0.0038	"	0.100	ND	68.3	70-130	11.7	30	QM-05
Surrogate: 1,2-Dichloroethane-d4	0.0407		"	0.0400		102	50-150			
Surrogate: Toluene-d8	0.0400		"	0.0400		100	50-150			
Surrogate: 4-Bromofluorobenzene	0.0412		"	0.0400		103	50-150			

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Broomfield CO, 80020

Project: Noble - UPRC 31-13H6  
Project Number: UWRWE-A4271-ABN  
Project Manager: Daniel Simpson

**Reported:**  
03/10/25 13:22

**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 BIA1029 - EPA 3550A**

**Blank (BIA1029-BLK1)**

Prepared: 01/22/25 Analyzed: 01/24/25

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	12.9		"	12.5		103		30-150			

**LCS (BIA1029-BS1)**

Prepared: 01/22/25 Analyzed: 01/26/25

C10-C28 (DRO)	529	50	mg/kg	500		106		70-130			
Surrogate: <i>o</i> -Terphenyl	15.5		"	12.5		124		30-150			

**Matrix Spike (BIA1029-MS1)**

Source: 2501204-01

Prepared: 01/22/25 Analyzed: 01/24/25

C10-C28 (DRO)	562	50	mg/kg	500	29.3	107		70-130			
Surrogate: <i>o</i> -Terphenyl	11.2		"	12.5		89.6		30-150			

**Matrix Spike Dup (BIA1029-MSD1)**

Source: 2501204-01

Prepared: 01/22/25 Analyzed: 01/24/25

C10-C28 (DRO)	559	50	mg/kg	500	29.3	106		70-130	0.660	20	
Surrogate: <i>o</i> -Terphenyl	13.6		"	12.5		109		30-150			

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

Project: Noble - UPRC 31-13H6

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

**Reported:**  
03/10/25 13:22

**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 BIA1096 - EPA 5030 Soil MS**

**Blank (BIA1096-BLK1)**

Prepared: 01/23/25 Analyzed: 01/29/25

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>	<i>0.0208</i>		"	<i>0.0333</i>		<i>62.3</i>	<i>40-140</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0214</i>		"	<i>0.0333</i>		<i>64.2</i>	<i>40-140</i>			

**LCS (BIA1096-BS1)**

Prepared: 01/23/25 Analyzed: 01/29/25

Acenaphthene	0.0233	0.00500	mg/kg	0.0333		69.9	40-140			
Anthracene	0.0207	0.00500	"	0.0333		62.2	40-140			
Benzo (a) anthracene	0.0234	0.00500	"	0.0333		70.3	40-140			
Benzo (a) pyrene	0.0230	0.00500	"	0.0333		69.1	40-140			
Benzo (b) fluoranthene	0.0257	0.00500	"	0.0333		77.2	40-140			
Benzo (k) fluoranthene	0.0248	0.00500	"	0.0333		74.5	40-140			
Chrysene	0.0225	0.00500	"	0.0333		67.6	40-140			
Dibenz (a,h) anthracene	0.0151	0.00500	"	0.0333		45.4	40-140			
Fluoranthene	0.0208	0.00500	"	0.0333		62.4	40-140			
Fluorene	0.0226	0.00500	"	0.0333		67.7	40-140			
Indeno (1,2,3-cd) pyrene	0.0158	0.00500	"	0.0333		47.4	40-140			
Pyrene	0.0241	0.00500	"	0.0333		72.4	40-140			
1-Methylnaphthalene	0.0218	0.00500	"	0.0333		65.5	40-140			
2-Methylnaphthalene	0.0239	0.00500	"	0.0333		71.8	40-140			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0217</i>		"	<i>0.0333</i>		<i>65.1</i>	<i>40-140</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0211</i>		"	<i>0.0333</i>		<i>63.2</i>	<i>40-140</i>			

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

Project: Noble - UPRC 31-13H6  
Project Number: UWRWE-A4271-ABN  
Project Manager: Daniel Simpson

**Reported:**  
03/10/25 13:22

**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 BIA1096 - EPA 5030 Soil MS**

<b>Matrix Spike (BIA1096-MS1)</b>	<b>Source: 2501204-01</b>			<b>Prepared: 01/23/25 Analyzed: 01/29/25</b>						
Acenaphthene	0.0206	0.00500	mg/kg	0.0333	ND	61.8	40-140			
Anthracene	0.0171	0.00500	"	0.0333	ND	51.4	40-140			
Benzo (a) anthracene	0.0211	0.00500	"	0.0333	ND	63.3	40-140			
Benzo (a) pyrene	0.0196	0.00500	"	0.0333	ND	58.8	40-140			
Benzo (b) fluoranthene	0.0220	0.00500	"	0.0333	ND	66.0	40-140			
Benzo (k) fluoranthene	0.0214	0.00500	"	0.0333	ND	64.1	40-140			
Chrysene	0.0205	0.00500	"	0.0333	ND	61.4	40-140			
Dibenz (a,h) anthracene	0.0138	0.00500	"	0.0333	ND	41.5	40-140			
Fluoranthene	0.0190	0.00500	"	0.0333	ND	56.9	40-140			
Fluorene	0.0200	0.00500	"	0.0333	ND	60.0	40-140			
Indeno (1,2,3-cd) pyrene	0.0142	0.00500	"	0.0333	ND	42.5	40-140			
Pyrene	0.0224	0.00500	"	0.0333	ND	67.2	40-140			
1-Methylnaphthalene	0.0194	0.00500	"	0.0333	ND	58.1	40-140			
2-Methylnaphthalene	0.0194	0.00500	"	0.0333	ND	58.3	40-140			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0191</i>		<i>"</i>	<i>0.0333</i>		<i>57.2</i>	<i>40-140</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0185</i>		<i>"</i>	<i>0.0333</i>		<i>55.5</i>	<i>40-140</i>			

<b>Matrix Spike Dup (BIA1096-MSD1)</b>	<b>Source: 2501204-01</b>			<b>Prepared: 01/23/25 Analyzed: 01/29/25</b>						
Acenaphthene	0.0301	0.00500	mg/kg	0.0333	ND	90.3	40-140	37.4	30	QR-02
Anthracene	0.0244	0.00500	"	0.0333	ND	73.2	40-140	35.1	30	QR-02
Benzo (a) anthracene	0.0308	0.00500	"	0.0333	ND	92.5	40-140	37.5	30	QR-02
Benzo (a) pyrene	0.0286	0.00500	"	0.0333	ND	85.8	40-140	37.3	30	QR-02
Benzo (b) fluoranthene	0.0338	0.00500	"	0.0333	ND	101	40-140	42.3	30	QR-02
Benzo (k) fluoranthene	0.0310	0.00500	"	0.0333	ND	93.1	40-140	37.0	30	QR-02
Chrysene	0.0292	0.00500	"	0.0333	ND	87.6	40-140	35.3	30	QR-02
Dibenz (a,h) anthracene	0.0173	0.00500	"	0.0333	ND	51.9	40-140	22.2	30	
Fluoranthene	0.0294	0.00500	"	0.0333	ND	88.1	40-140	43.1	30	QR-02
Fluorene	0.0302	0.00500	"	0.0333	ND	90.7	40-140	40.8	30	QR-02
Indeno (1,2,3-cd) pyrene	0.0187	0.00500	"	0.0333	ND	56.2	40-140	27.9	30	
Pyrene	0.0352	0.00500	"	0.0333	ND	106	40-140	44.4	30	QR-02
1-Methylnaphthalene	0.0290	0.00500	"	0.0333	ND	86.9	40-140	39.8	30	QR-02
2-Methylnaphthalene	0.0286	0.00500	"	0.0333	ND	85.9	40-140	38.2	30	QR-02
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0279</i>		<i>"</i>	<i>0.0333</i>		<i>83.7</i>	<i>40-140</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0256</i>		<i>"</i>	<i>0.0333</i>		<i>76.8</i>	<i>40-140</i>			

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

Project: Noble - UPRC 31-13H6  
Project Number: UWRWE-A4271-ABN  
Project Manager: Daniel Simpson

**Reported:**  
03/10/25 13:22

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

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

**Batch BIB1278 - EPA 3050B**

**Blank (BIB1278-BLK1)**

Prepared: 02/23/25 Analyzed: 03/05/25

Boron ND 2.00 mg/L

**LCS (BIB1278-BS1)**

Prepared: 02/23/25 Analyzed: 03/05/25

Boron 4.50 2.00 mg/L 5.00 90.0 80-120

**Duplicate (BIB1278-DUP1)**

Source: 2501220-01

Prepared: 02/23/25 Analyzed: 03/05/25

Boron 0.288 2.00 mg/L 0.288 0.0730 20

**Matrix Spike (BIB1278-MS1)**

Source: 2501220-01

Prepared: 02/23/25 Analyzed: 03/05/25

Boron 4.96 2.00 mg/L 4.98 0.288 93.9 75-125

**Matrix Spike Dup (BIB1278-MSD1)**

Source: 2501220-01

Prepared: 02/23/25 Analyzed: 03/05/25

Boron 5.01 2.00 mg/L 4.98 0.288 94.7 75-125 0.832 25

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Noble - UPRC 31-13H6  
Project Number: UWRWE-A4271-ABN  
Project Manager: Daniel Simpson

**Reported:**  
03/10/25 13:22

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BIA0906 - EPA 3050B**

**Blank (BIA0906-BLK1)**

Prepared & Analyzed: 01/20/25

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 (BIA0906-BS1)**

Prepared & Analyzed: 01/20/25

Arsenic	35.6	0.200	mg/kg wet	40.7	87.6	80-120
Barium	39.5	0.400	"	40.7	97.1	80-120
Cadmium	2.02	0.200	"	2.03	99.2	80-120
Copper	41.9	0.400	"	40.7	103	80-120
Lead	20.0	0.200	"	20.3	98.2	80-120
Nickel	42.0	0.400	"	40.7	103	80-120
Silver	2.01	0.0200	"	2.03	98.9	80-120
Zinc	42.1	0.400	"	40.7	103	80-120
Selenium	4.44	0.260	"	4.07	109	80-120

**Duplicate (BIA0906-DUP1)**

Source: 2501217-04

Prepared & Analyzed: 01/20/25

Arsenic	1.01	0.200	mg/kg dry	1.10	8.78	20
Barium	24.0	0.400	"	25.9	7.33	20
Cadmium	0.102	0.200	"	0.121	16.9	20
Copper	2.13	0.400	"	2.16	1.40	20
Lead	3.19	0.200	"	3.32	3.75	20
Nickel	1.90	0.400	"	1.96	3.45	20
Silver	0.0117	0.0200	"	0.00934	22.8	20
Zinc	8.87	0.400	"	8.70	1.94	20
Selenium	ND	0.260	"	ND		20

QR-01

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Noble - UPRC 31-13H6

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

**Reported:**  
03/10/25 13:22

**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 BIA0906 - EPA 3050B**

**Matrix Spike (BIA0906-MS1)**

Source: 2501217-04

Prepared & Analyzed: 01/20/25

Arsenic	32.6	0.200	mg/kg dry	42.5	1.10	74.1	75-125				QM-05
Barium	53.7	0.400	"	42.5	25.9	65.5	75-125				QM-05
Cadmium	1.81	0.200	"	2.12	0.121	79.7	75-125				
Copper	34.1	0.400	"	42.5	2.16	75.2	75-125				
Lead	19.7	0.200	"	21.2	3.32	77.3	75-125				
Nickel	35.5	0.400	"	42.5	1.96	79.0	75-125				
Silver	1.69	0.0200	"	2.12	0.00934	79.1	75-125				
Zinc	40.0	0.400	"	42.5	8.70	73.7	75-125				QM-05
Selenium	3.57	0.260	"	4.25	ND	84.1	75-125				

**Matrix Spike Dup (BIA0906-MSD1)**

Source: 2501217-04

Prepared & Analyzed: 01/20/25

Arsenic	38.2	0.200	mg/kg dry	42.5	1.10	87.3	75-125	15.8	25		
Barium	63.1	0.400	"	42.5	25.9	87.8	75-125	16.2	25		
Cadmium	2.15	0.200	"	2.12	0.121	95.7	75-125	17.1	25		
Copper	40.1	0.400	"	42.5	2.16	89.4	75-125	16.2	25		
Lead	23.4	0.200	"	21.2	3.32	94.5	75-125	16.9	25		
Nickel	39.8	0.400	"	42.5	1.96	89.1	75-125	11.4	25		
Silver	2.01	0.0200	"	2.12	0.00934	94.2	75-125	17.4	25		
Zinc	47.2	0.400	"	42.5	8.70	90.8	75-125	16.6	25		
Selenium	4.25	0.260	"	4.25	ND	100	75-125	17.4	25		

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

Project: Noble - UPRC 31-13H6  
Project Number: UWRWE-A4271-ABN  
Project Manager: Daniel Simpson

**Reported:**  
03/10/25 13:22

**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 BIB0044 - 3060A Mod**

**Blank (BIB0044-BLK1)**

Prepared: 02/03/25 Analyzed: 02/05/25

Chromium, Hexavalent ND 0.30 mg/kg wet

**LCS (BIB0044-BS1)**

Prepared: 02/03/25 Analyzed: 02/05/25

Chromium, Hexavalent 24.0 0.30 mg/kg wet 26.0 92.0 80-120

**Duplicate (BIB0044-DUP1)**

**Source: 2501177-01**

Prepared: 02/03/25 Analyzed: 02/05/25

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

**Matrix Spike (BIB0044-MS1)**

**Source: 2501177-01**

Prepared: 02/03/25 Analyzed: 02/05/25

Chromium, Hexavalent 28.6 0.30 mg/kg dry 29.2 ND 98.0 75-125

**Matrix Spike Dup (BIB0044-MSD1)**

**Source: 2501177-01**

Prepared: 02/03/25 Analyzed: 02/05/25

Chromium, Hexavalent 28.6 0.30 mg/kg dry 29.2 ND 98.0 75-125 0.00 20

Summit Scientific

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

Project: Noble - UPRC 31-13H6

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

**Reported:**  
03/10/25 13:22

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

**Summit Scientific**

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

**Batch BIB0387 - General Preparation**

**Blank (BIB0387-BLK1)**

Prepared: 02/07/25 Analyzed: 02/20/25

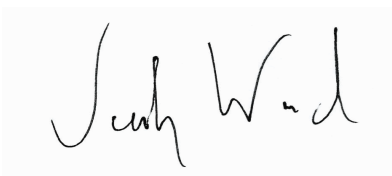
Calcium	ND	0.0500	mg/L wet						
Magnesium	ND	0.0500	"						
Sodium	ND	0.0500	"						

**LCS (BIB0387-BS1)**

Prepared: 02/07/25 Analyzed: 02/20/25

Calcium	5.33	0.0500	mg/L wet	5.00	107	70-130			
Magnesium	5.33	0.0500	"	5.00	107	70-130			
Sodium	5.07	0.0500	"	5.00	101	70-130			

Summit Scientific



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

Project: Noble - UPRC 31-13H6

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

**Reported:**  
 03/10/25 13:22

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

**Summit Scientific**

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

**Batch BIA0968 - General Preparation**


**Duplicate (BIA0968-DUP1)**

**Source: 2501216-01**

Prepared: 01/21/25 Analyzed: 01/22/25

% Solids	85.8		%		86.4			0.678		20	
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Summit Scientific



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

Project: Noble - UPRC 31-13H6

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

**Reported:**  
03/10/25 13:22

**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 BIB0389 - General Preparation**

**Blank (BIB0389-BLK1)**

Prepared: 02/07/25 Analyzed: 02/14/25

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BIB0389-BS1)**

Prepared: 02/07/25 Analyzed: 02/14/25

Specific Conductance (EC) 1.43 0.0100 mmhos/cm 1.41 101 95-105

**Duplicate (BIB0389-DUP1)**

**Source: 2501204-01**

Prepared: 02/07/25 Analyzed: 02/14/25

Specific Conductance (EC) 1.35 0.0100 mmhos/cm 1.36 0.729 20

Summit Scientific

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 6855 W. 119th Ave.  
 Broomfield CO, 80020

Project: Noble - UPRC 31-13H6

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

**Reported:**  
 03/10/25 13:22

**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 BIB0388 - General Preparation**

**LCS (BIB0388-BS1)**

Prepared: 02/07/25 Analyzed: 02/14/25

pH 9.18 pH Units 9.18 100 95-105

**Duplicate (BIB0388-DUP1)**

Source: 2501204-01

Prepared: 02/07/25 Analyzed: 02/14/25

pH 6.92 pH Units 6.91 0.135 20

Summit Scientific

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

Project: Noble - UPRC 31-13H6

Project Number: UWRWE-A4271-ABN

Project Manager: Daniel Simpson

**Reported:**  
03/10/25 13:22

### Notes and Definitions

- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- 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