

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

August 31, 2023

Jacob Whritenour

Tasman Geosciences

6855 W. 119th Ave.

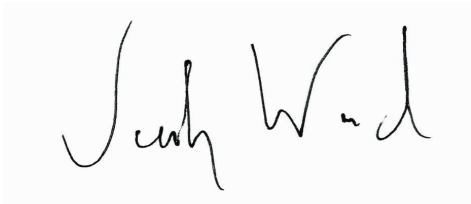
Broomfield, CO 80020

RE: Noble - Plus G25-07 (25-2)

Work Order #2308508

Enclosed are the results of analyses for samples received by Summit Scientific on 08/22/23 17:38. 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 - Plus G25-07 (25-2)

Project Number: UWRWE-A3199-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/31/23 12:08

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL01-J@3'	2308508-01	Soil	08/22/23 09:52	08/22/23 17:38
FL01-O@3'	2308508-02	Soil	08/22/23 11:00	08/22/23 17:38

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.*

# SUMMIT SCIENTIFIC

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

Lab ID	Page 1 of 1
2308508	

<b>Send Data To:</b>		<b>Send Invoice To:</b>
Client: Noble / Tasman	Project Manager: Jake Whritenour	Company: Chevron
Address: 6855 W. 119th Ave	E-Mail: Jwhritenour@tasman-geo.com	Project Name/Location: Plus G25-07 (25-2)
City/State/Zip: Broomfield, CO 80020		AFE#: UWRWE-A3199-ABN
Phone: 303-903-5168	Project Name: Plus G25-07 (25-2)	PO/Billing Codes:
Sampler Name: Dalton Hagen	Project Number:	Contact: Miguel Barron

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested						Special Instructions			
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	VOC - 915	TPH - 915	PAH - 915	pH, EC, SAR	Boron - HWS	Metals - 915		HOLD		
1	FL01-3e3'	8/22/23	0952	W			X			X				X	X	X	X	X	X		pH, EC, SAR by saturated paste	
2	FL01-0e3'	I	1100	I			I			I				I	I	I	I	I	I			
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						

Relinquished by: <i>[Signature]</i>	Date/Time: 8/22/23 1240	Received by: Tasman Lockbox	Date/Time: 8/22/23 1240	TAT Business Days	Field DO	Notes:
Relinquished by: Tasman Lockbox	Date/Time: 92223 1738	Received by: <i>[Signature]</i>	Date/Time: 92223 1738	Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
				Standard	X Field Turb.	
Temperature Upon Receipt: 8.3	Corrected Temperature: ←	IR gun #: 1	HNO3 lot #:			





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

Project: Noble - Plus G25-07 (25-2)

Project Number: UWRWE-A3199-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/31/23 12:08

**FL01-J@3'**  
**2308508-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/22/23 09:52**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGH0998	08/24/23	08/26/23	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: **08/22/23 09:52**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0358	89.6 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0399	99.8 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0409	102 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/22/23 09:52**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGH1002	08/24/23	08/25/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **08/22/23 09:52**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	11.4	91.3 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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

Project: Noble - Plus G25-07 (25-2)

Project Number: UWRWE-A3199-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/31/23 12:08

**FL01-J@3'**  
**2308508-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/22/23 09:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGH0913	08/23/23	08/23/23	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: **08/22/23 09:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0194	58.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0162	48.6 %	40-150		"	"	"	"	

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

Date Sampled: **08/22/23 09:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	0.0100	mg/L	1	BGH0936	08/23/23	08/25/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **08/22/23 09:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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

Project: Noble - Plus G25-07 (25-2)

Project Number: UWRWE-A3199-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/31/23 12:08

**FL01-J@3'**  
**2308508-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.385	0.200	mg/kg dry	1	BGH0904	08/23/23	08/24/23	EPA 6020B	
Barium	35.5	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	0.815	0.400	"	"	"	"	"	"	
Lead	3.10	0.200	"	"	"	"	"	"	
Nickel	0.982	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	3.92	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **08/22/23 09:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGH0984	08/24/23	08/24/23	EPA 7196A	

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

Date Sampled: **08/22/23 09:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	22.3	0.0525	mg/L dry	1	BGH1070	08/25/23	08/29/23	EPA 6020B	
Magnesium	6.01	0.0525	"	"	"	"	"	"	
Sodium	1.18	0.0525	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **08/22/23 09:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0573	0.00100	units	1	BGH1203	08/30/23	08/30/23	Calculation	

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

Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



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

Project: Noble - Plus G25-07 (25-2)

Project Number: UWRWE-A3199-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/31/23 12:08

**FL01-J@3'**  
**2308508-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/22/23 09:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.2		%	1	BGH0926	08/23/23	08/24/23	Calculation	

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

Date Sampled: **08/22/23 09:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0204	0.0100	mmhos/cm	1	BGH1106	08/28/23	08/28/23	EPA 120.1	

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

Date Sampled: **08/22/23 09:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.32		pH Units	1	BGH1103	08/28/23	08/28/23	EPA 9045D	

Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



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

Project: Noble - Plus G25-07 (25-2)

Project Number: UWRWE-A3199-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/31/23 12:08

**FL01-O@3'**  
**2308508-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/22/23 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGH0998	08/24/23	08/26/23	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: **08/22/23 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0364	91.0 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0400	100 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0366	91.5 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/22/23 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGH1002	08/24/23	08/25/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **08/22/23 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	14.7	118 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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

Project: Noble - Plus G25-07 (25-2)

Project Number: UWRWE-A3199-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/31/23 12:08

**FL01-O@3'**  
**2308508-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/22/23 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGH0913	08/23/23	08/23/23	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: **08/22/23 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0177	53.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0162	48.5 %	40-150		"	"	"	"	

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

Date Sampled: **08/22/23 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	0.0100	mg/L	1	BGH0936	08/23/23	08/25/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **08/22/23 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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

Project: Noble - Plus G25-07 (25-2)

Project Number: UWRWE-A3199-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/31/23 12:08

**FL01-O@3'**  
**2308508-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.593	0.200	mg/kg dry	1	BGH0904	08/23/23	08/24/23	EPA 6020B	
Barium	57.6	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.21	0.400	"	"	"	"	"	"	
Lead	5.50	0.200	"	"	"	"	"	"	
Nickel	1.44	0.400	"	"	"	"	"	"	
Silver	0.0488	0.0200	"	"	"	"	"	"	
Zinc	5.88	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **08/22/23 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGH0984	08/24/23	08/24/23	EPA 7196A	

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

Date Sampled: **08/22/23 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	79.0	0.0531	mg/L dry	1	BGH1070	08/25/23	08/29/23	EPA 6020B	
Magnesium	9.66	0.0531	"	"	"	"	"	"	
Sodium	1.70	0.0531	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **08/22/23 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0480	0.00100	units	1	BGH1203	08/30/23	08/30/23	Calculation	

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

Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



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

Project: Noble - Plus G25-07 (25-2)

Project Number: UWRWE-A3199-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/31/23 12:08

**FL01-O@3'**  
**2308508-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/22/23 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	94.2			%	1	BGH0926	08/23/23	08/24/23	Calculation	

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

Date Sampled: **08/22/23 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.104	0.0100		mmhos/cm	1	BGH1106	08/28/23	08/28/23	EPA 120.1	

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

Date Sampled: **08/22/23 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.25			pH Units	1	BGH1103	08/28/23	08/28/23	EPA 9045D	

Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



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

Project: Noble - Plus G25-07 (25-2)

Project Number: UWRWE-A3199-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/31/23 12:08

### 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 BGH0998 - EPA 5030 Soil MS

##### Blank (BGH0998-BLK1)

Prepared: 08/24/23 Analyzed: 08/25/23

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>	0.0376		"	0.0400		94.0	50-150			
<i>Surrogate: Toluene-d8</i>	0.0387		"	0.0400		96.8	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0373		"	0.0400		93.3	50-150			

##### LCS (BGH0998-BS1)

Prepared: 08/24/23 Analyzed: 08/25/23

Benzene	0.0948	0.0020	mg/kg	0.100		94.8	70-130			
Toluene	0.0902	0.0050	"	0.100		90.2	70-130			
Ethylbenzene	0.0914	0.0050	"	0.100		91.4	70-130			
m,p-Xylene	0.204	0.010	"	0.200		102	70-130			
o-Xylene	0.0873	0.0050	"	0.100		87.3	70-130			
1,2,4-Trimethylbenzene	0.0921	0.0050	"	0.100		92.1	70-130			
1,3,5-Trimethylbenzene	0.0958	0.0050	"	0.100		95.8	70-130			
Naphthalene	0.103	0.0038	"	0.100		103	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0490		"	0.0400		122	50-150			
<i>Surrogate: Toluene-d8</i>	0.0394		"	0.0400		98.4	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0379		"	0.0400		94.6	50-150			

##### Matrix Spike (BGH0998-MS1)

Source: 2308483-01

Prepared: 08/24/23 Analyzed: 08/25/23

Benzene	0.0970	0.0020	mg/kg	0.100	ND	97.0	70-130			
Toluene	0.102	0.0050	"	0.100	ND	102	70-130			
Ethylbenzene	0.107	0.0050	"	0.100	ND	107	70-130			
m,p-Xylene	0.206	0.010	"	0.200	ND	103	70-130			
o-Xylene	0.0963	0.0050	"	0.100	ND	96.3	70-130			
1,2,4-Trimethylbenzene	0.0983	0.0050	"	0.100	ND	98.3	70-130			
1,3,5-Trimethylbenzene	0.0937	0.0050	"	0.100	ND	93.7	70-130			
Naphthalene	0.0923	0.0038	"	0.100	ND	92.3	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0368		"	0.0400		92.0	50-150			
<i>Surrogate: Toluene-d8</i>	0.0391		"	0.0400		97.7	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0404		"	0.0400		101	50-150			

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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

Project: Noble - Plus G25-07 (25-2)

Project Number: UWRWE-A3199-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/31/23 12:08

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

**Summit Scientific**

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

**Batch BGH0998 - EPA 5030 Soil MS**

<b>Matrix Spike Dup (BGH0998-MSD1)</b>	<b>Source: 2308483-01</b>			Prepared: 08/24/23 Analyzed: 08/25/23					
Benzene	0.0998	0.0020	mg/kg	0.100	ND	99.8	70-130	2.84	30
Toluene	0.0946	0.0050	"	0.100	ND	94.6	70-130	7.98	30
Ethylbenzene	0.103	0.0050	"	0.100	ND	103	70-130	3.59	30
m,p-Xylene	0.213	0.010	"	0.200	ND	106	70-130	3.27	30
o-Xylene	0.107	0.0050	"	0.100	ND	107	70-130	10.7	30
1,2,4-Trimethylbenzene	0.102	0.0050	"	0.100	ND	102	70-130	3.54	30
1,3,5-Trimethylbenzene	0.0980	0.0050	"	0.100	ND	98.0	70-130	4.48	30
Naphthalene	0.0965	0.0038	"	0.100	ND	96.5	70-130	4.51	30
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0465</i>		<i>"</i>	<i>0.0400</i>		<i>116</i>	<i>50-150</i>		
<i>Surrogate: Toluene-d8</i>	<i>0.0391</i>		<i>"</i>	<i>0.0400</i>		<i>97.8</i>	<i>50-150</i>		
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0370</i>		<i>"</i>	<i>0.0400</i>		<i>92.6</i>	<i>50-150</i>		

Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



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

Project: Noble - Plus G25-07 (25-2)

Project Number: UWRWE-A3199-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/31/23 12:08

**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 BGH1002 - EPA 3550A**

**Blank (BGH1002-BLK1)**

Prepared & Analyzed: 08/24/23

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	12.4		"	12.5		99.0	30-150				

**LCS (BGH1002-BS1)**

Prepared & Analyzed: 08/24/23

C10-C28 (DRO)	517	50	mg/kg	500		103	70-130				
Surrogate: <i>o</i> -Terphenyl	12.8		"	12.5		102	30-150				

**Matrix Spike (BGH1002-MS1)**

Source: 2308483-01

Prepared & Analyzed: 08/24/23

C10-C28 (DRO)	494	50	mg/kg	500	14.8	95.8	70-130				
Surrogate: <i>o</i> -Terphenyl	10.5		"	12.5		84.3	30-150				

**Matrix Spike Dup (BGH1002-MSD1)**

Source: 2308483-01

Prepared & Analyzed: 08/24/23

C10-C28 (DRO)	560	50	mg/kg	500	14.8	109	70-130	12.6	20		
Surrogate: <i>o</i> -Terphenyl	12.5		"	12.5		100	30-150				

Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



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

Project: Noble - Plus G25-07 (25-2)

Project Number: UWRWE-A3199-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/31/23 12:08

**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 BGH0913 - EPA 5030 Soil MS**

**Blank (BGH0913-BLK1)**

Prepared & Analyzed: 08/23/23

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>	0.0227		"	0.0333		68.0	40-150			
<i>Surrogate: Fluoranthene-d10</i>	0.0249		"	0.0333		74.8	40-150			

**LCS (BGH0913-BS1)**

Prepared & Analyzed: 08/23/23

Acenaphthene	0.0337	0.00500	mg/kg	0.0333		101	31-137			
Anthracene	0.0301	0.00500	"	0.0333		90.3	30-120			
Benzo (a) anthracene	0.0297	0.00500	"	0.0333		89.0	30-120			
Benzo (a) pyrene	0.0275	0.00500	"	0.0333		82.5	30-120			
Benzo (b) fluoranthene	0.0300	0.00500	"	0.0333		89.9	30-120			
Benzo (k) fluoranthene	0.0301	0.00500	"	0.0333		90.4	30-120			
Chrysene	0.0313	0.00500	"	0.0333		94.0	30-120			
Dibenz (a,h) anthracene	0.0333	0.00500	"	0.0333		99.8	30-120			
Fluoranthene	0.0298	0.00500	"	0.0333		89.5	30-120			
Fluorene	0.0341	0.00500	"	0.0333		102	30-120			
Indeno (1,2,3-cd) pyrene	0.0264	0.00500	"	0.0333		79.2	30-120			
Pyrene	0.0353	0.00500	"	0.0333		106	35-142			
1-Methylnaphthalene	0.0315	0.00500	"	0.0333		94.4	35-142			
2-Methylnaphthalene	0.0311	0.00500	"	0.0333		93.2	35-142			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	0.0310		"	0.0333		93.0	40-150			
<i>Surrogate: Fluoranthene-d10</i>	0.0300		"	0.0333		90.1	40-150			

Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



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

Project: Noble - Plus G25-07 (25-2)

Project Number: UWRWE-A3199-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/31/23 12:08

**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 BGH0913 - EPA 5030 Soil MS**

<b>Matrix Spike (BGH0913-MS1)</b>	<b>Source: 2308483-01</b>			<b>Prepared &amp; Analyzed: 08/23/23</b>						
Acenaphthene	0.0205	0.00500	mg/kg	0.0333	ND	61.5	31-137			
Anthracene	0.0194	0.00500	"	0.0333	ND	58.1	30-120			
Benzo (a) anthracene	0.0195	0.00500	"	0.0333	ND	58.6	30-120			
Benzo (a) pyrene	0.0166	0.00500	"	0.0333	ND	49.9	30-120			
Benzo (b) fluoranthene	0.0175	0.00500	"	0.0333	ND	52.6	30-120			
Benzo (k) fluoranthene	0.0182	0.00500	"	0.0333	ND	54.6	30-120			
Chrysene	0.0203	0.00500	"	0.0333	ND	60.9	30-120			
Dibenz (a,h) anthracene	0.0200	0.00500	"	0.0333	ND	59.9	30-120			
Fluoranthene	0.0195	0.00500	"	0.0333	ND	58.5	30-120			
Fluorene	0.0217	0.00500	"	0.0333	ND	65.0	30-120			
Indeno (1,2,3-cd) pyrene	0.0260	0.00500	"	0.0333	ND	78.1	30-120			
Pyrene	0.0231	0.00500	"	0.0333	ND	69.3	35-142			
1-Methylnaphthalene	0.0209	0.00500	"	0.0333	ND	62.6	15-130			
2-Methylnaphthalene	0.0194	0.00500	"	0.0333	ND	58.1	15-130			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0178</i>		<i>"</i>	<i>0.0333</i>		<i>53.5</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0171</i>		<i>"</i>	<i>0.0333</i>		<i>51.3</i>	<i>40-150</i>			

<b>Matrix Spike Dup (BGH0913-MSD1)</b>	<b>Source: 2308483-01</b>			<b>Prepared &amp; Analyzed: 08/23/23</b>						
Acenaphthene	0.0170	0.00500	mg/kg	0.0333	ND	51.1	31-137	18.5	30	
Anthracene	0.0180	0.00500	"	0.0333	ND	54.0	30-120	7.36	30	
Benzo (a) anthracene	0.0181	0.00500	"	0.0333	ND	54.4	30-120	7.46	30	
Benzo (a) pyrene	0.0160	0.00500	"	0.0333	ND	47.9	30-120	4.16	30	
Benzo (b) fluoranthene	0.0165	0.00500	"	0.0333	ND	49.5	30-120	6.06	30	
Benzo (k) fluoranthene	0.0167	0.00500	"	0.0333	ND	50.0	30-120	8.68	30	
Chrysene	0.0188	0.00500	"	0.0333	ND	56.3	30-120	7.86	30	
Dibenz (a,h) anthracene	0.0186	0.00500	"	0.0333	ND	55.9	30-120	6.94	30	
Fluoranthene	0.0183	0.00500	"	0.0333	ND	54.9	30-120	6.40	30	
Fluorene	0.0179	0.00500	"	0.0333	ND	53.7	30-120	19.0	30	
Indeno (1,2,3-cd) pyrene	0.0265	0.00500	"	0.0333	ND	79.4	30-120	1.69	30	
Pyrene	0.0204	0.00500	"	0.0333	ND	61.3	35-142	12.2	30	
1-Methylnaphthalene	0.0199	0.00500	"	0.0333	ND	59.7	15-130	4.78	50	
2-Methylnaphthalene	0.0189	0.00500	"	0.0333	ND	56.6	15-130	2.61	50	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0167</i>		<i>"</i>	<i>0.0333</i>		<i>50.1</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0162</i>		<i>"</i>	<i>0.0333</i>		<i>48.5</i>	<i>40-150</i>			

Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



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

Project: Noble - Plus G25-07 (25-2)

Project Number: UWRWE-A3199-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/31/23 12:08

**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 BGH0936 - EPA 3050B**

**Blank (BGH0936-BLK1)**

Prepared: 08/23/23 Analyzed: 08/25/23

Boron ND 0.0100 mg/L

**LCS (BGH0936-BS1)**

Prepared: 08/23/23 Analyzed: 08/25/23

Boron 4.11 0.0100 mg/L 5.00 82.2 80-120

**Duplicate (BGH0936-DUP1)**

Source: 2308499-01

Prepared: 08/23/23 Analyzed: 08/25/23

Boron 0.107 0.0100 mg/L ND 200 20 QR-04

**Matrix Spike (BGH0936-MS1)**

Source: 2308499-01

Prepared: 08/23/23 Analyzed: 08/25/23

Boron 5.13 0.0100 mg/L 5.00 ND 103 75-125

**Matrix Spike Dup (BGH0936-MSD1)**

Source: 2308499-01

Prepared: 08/23/23 Analyzed: 08/25/23

Boron 4.79 0.0100 mg/L 5.00 ND 95.8 75-125 6.79 25

Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



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

Project: Noble - Plus G25-07 (25-2)

Project Number: UWRWE-A3199-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/31/23 12:08

**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 BGH0904 - EPA 3050B**

**Blank (BGH0904-BLK1)**

Prepared: 08/23/23 Analyzed: 08/24/23

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 (BGH0904-BS1)**

Prepared: 08/23/23 Analyzed: 08/24/23

Arsenic	38.1	0.200	mg/kg wet	40.0	95.1	80-120
Barium	43.6	0.400	"	40.0	109	80-120
Cadmium	2.14	0.200	"	2.00	107	80-120
Copper	37.5	0.400	"	40.0	93.7	80-120
Lead	21.9	0.200	"	20.0	109	80-120
Nickel	36.9	0.400	"	40.0	92.3	80-120
Silver	2.09	0.0200	"	2.00	104	80-120
Zinc	38.5	0.400	"	40.0	96.1	80-120

**Duplicate (BGH0904-DUP1)**

Source: 2308486-01

Prepared: 08/23/23 Analyzed: 08/24/23

Arsenic	0.654	0.200	mg/kg dry	0.547	17.8	20	
Barium	12.2	0.400	"	12.3	0.638	20	
Cadmium	0.0197	0.200	"	0.0322	48.1	20	QR-01
Copper	0.530	0.400	"	0.587	10.2	20	
Lead	2.52	0.200	"	2.75	8.77	20	
Nickel	0.554	0.400	"	0.636	13.8	20	
Silver	0.0125	0.0200	"	0.0120	3.92	20	
Zinc	3.04	0.400	"	3.83	23.1	20	QR-01
Selenium	ND	0.260	"	ND		200	

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 - Plus G25-07 (25-2)

Project Number: UWRWE-A3199-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/31/23 12:08

**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 BGH0904 - EPA 3050B**

**Matrix Spike (BGH0904-MS1)**

Source: 2308486-01

Prepared: 08/23/23 Analyzed: 08/24/23

Arsenic	22.9	0.200	mg/kg dry	48.0	0.547	46.5	75-125				QM-01
Barium	61.5	0.400	"	48.0	12.3	103	75-125				
Cadmium	2.51	0.200	"	2.40	0.0322	103	75-125				
Copper	22.6	0.400	"	48.0	0.587	45.8	75-125				QM-01
Lead	26.0	0.200	"	24.0	2.75	96.9	75-125				
Nickel	22.7	0.400	"	48.0	0.636	46.0	75-125				QM-01
Silver	2.35	0.0200	"	2.40	0.0120	97.2	75-125				
Zinc	26.0	0.400	"	48.0	3.83	46.3	75-125				QM-01

**Matrix Spike Dup (BGH0904-MSD1)**

Source: 2308486-01

Prepared: 08/23/23 Analyzed: 08/24/23

Arsenic	20.6	0.200	mg/kg dry	48.0	0.547	41.8	75-125	10.3	25		QM-01
Barium	64.4	0.400	"	48.0	12.3	109	75-125	4.61	25		
Cadmium	2.32	0.200	"	2.40	0.0322	95.4	75-125	7.94	25		
Copper	20.7	0.400	"	48.0	0.587	41.9	75-125	8.69	25		QM-01
Lead	24.8	0.200	"	24.0	2.75	91.7	75-125	4.92	25		
Nickel	20.8	0.400	"	48.0	0.636	42.0	75-125	8.69	25		QM-01
Silver	2.20	0.0200	"	2.40	0.0120	91.3	75-125	6.20	25		
Zinc	24.5	0.400	"	48.0	3.83	43.1	75-125	6.07	25		QM-01

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 - Plus G25-07 (25-2)

Project Number: UWRWE-A3199-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/31/23 12:08

**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 BGH0984 - 3060A Mod**

**Blank (BGH0984-BLK1)**

Prepared & Analyzed: 08/24/23

Chromium, Hexavalent      ND      0.30    mg/kg wet

**LCS (BGH0984-BS1)**

Prepared & Analyzed: 08/24/23

Chromium, Hexavalent      25.4      0.30    mg/kg wet      25.0      101      80-120

**Duplicate (BGH0984-DUP1)**

**Source: 2308477-01**

Prepared & Analyzed: 08/24/23

Chromium, Hexavalent      ND      0.30    mg/kg dry      ND      20

**Matrix Spike (BGH0984-MS1)**

**Source: 2308477-01**

Prepared & Analyzed: 08/24/23

Chromium, Hexavalent      34.1      0.30    mg/kg dry      26.4      ND      129      75-125      QM-06

**Matrix Spike Dup (BGH0984-MSD1)**

**Source: 2308477-01**

Prepared & Analyzed: 08/24/23

Chromium, Hexavalent      35.5      0.30    mg/kg dry      26.4      ND      135      75-125      4.09      20      QM-06

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 - Plus G25-07 (25-2)

Project Number: UWRWE-A3199-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/31/23 12:08

**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 BGH1070 - General Preparation**

**Blank (BGH1070-BLK1)**

Prepared: 08/25/23 Analyzed: 08/29/23

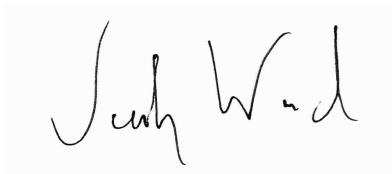
Calcium	ND	0.0500	mg/L wet
Magnesium	ND	0.0500	"
Sodium	ND	0.0500	"

**LCS (BGH1070-BS1)**

Prepared: 08/25/23 Analyzed: 08/29/23

Calcium	5.49	0.0500	mg/L wet	5.00	110	70-130
Magnesium	5.42	0.0500	"	5.00	108	70-130
Sodium	5.34	0.0500	"	5.00	107	70-130

Summit Scientific



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



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

Project: Noble - Plus G25-07 (25-2)

Project Number: UWRWE-A3199-ABN  
 Project Manager: Jacob Whritenour

**Reported:**  
 08/31/23 12:08

**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 BGH0926 - General Preparation**


**Duplicate (BGH0926-DUP1)**

Source: 2308482-01

Prepared: 08/23/23 Analyzed: 08/24/23

% Solids	92.7		%		92.0			0.665		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 - Plus G25-07 (25-2)

Project Number: UWRWE-A3199-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/31/23 12:08

**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 BGH1106 - General Preparation**

**Blank (BGH1106-BLK1)**

Prepared & Analyzed: 08/28/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BGH1106-BS1)**

Prepared & Analyzed: 08/28/23

Specific Conductance (EC) 0.155 0.0100 mmhos/cm 0.150 103 95-105

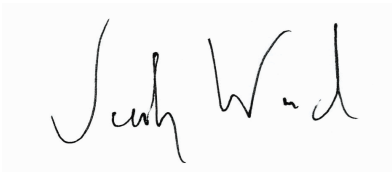
**Duplicate (BGH1106-DUP1)**

Source: 2308478-01

Prepared & Analyzed: 08/28/23

Specific Conductance (EC) 0.639 0.0100 mmhos/cm 0.639 0.00 20

Summit Scientific



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



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

Project: Noble - Plus G25-07 (25-2)

Project Number: UWRWE-A3199-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/31/23 12:08

**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 BGH1103 - General Preparation**

**LCS (BGH1103-BS1)**

Prepared & Analyzed: 08/28/23

pH	9.16	pH Units	9.18	99.8	95-105
----	------	----------	------	------	--------

**Duplicate (BGH1103-DUP1)**

Source: 2308478-01

Prepared & Analyzed: 08/28/23

pH	7.63	pH Units	7.63	0.00	20
----	------	----------	------	------	----

Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



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

Project: Noble - Plus G25-07 (25-2)

Project Number: UWRWE-A3199-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/31/23 12:08

### Notes and Definitions

- QR-04 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QR-01 Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
- QM-06 Due to noted non-homogeneity of the QC sample matrix, the MS/MSD did not provide reliable results for accuracy and precision. Sample results for the QC batch were accepted based on LCS/LCSD percent recoveries and RPD values.
- QM-01 The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
- 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