

Flowline Closure Checklist

COGCC Rule 911.a.(4) Environmental Site Closure Assessment Field Form

Additional Attachments:		Tank Battery Closure		Wellhead Closure		Pit Closure		Partially Buried Vault Closure
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Site Name & COGCC Facility Number: Born-Sitzman 02	Date: 6/21/2023	Remediation Project #: 27926
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Associated Wells:	Age of Site:	Number of Photos Attached: 2
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Starting point: (GPS coordinates and descriptions)
40.285733, -104.529409

End point: (GPS coordinates and descriptions)
40.281809, -104.529770

USCS Soil Type: Well graded sand-SW	Estimated Depth to Groundwater: >4'
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Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)
None observed

Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)
None observed

Flowlines

Flowline type	Oil/Water/Gas			
Depth	4'			
Age				
Length	1460'			
Construction Material	Steel			
Were flowlines pulled?	No			
Visual Integrity of lines	Good			
Visual impacts if trenched	None observed			
PID Readings if trenched	0.0 - 0.0			
Sample taken? Location/Sample ID#	Yes, see below			
Photo Number(s)	2			

Other observations regarding on location flowlines:
Samples were taken at the wellhead and the separator (FL01-A@4' & FL01-B@4').Flowline was ABIP to be pulled at a later date.

Summary

Was impacted soil identified? No	
Total number of samples field screened: 2	Total number of samples collected: 2
Highest PID Reading: 0.0	Total number of samples submitted to lab for analysis: 2
If more than 10 cubic yards of impacted soil were observed:	
Vertical extent:	Estimated spill volume:
Lateral extent:	Volume of soil removed:
Is additional investigation required?	
Was groundwater encountered during the investigation? No	
Measured depth to groundwater:	Was remedial groundwater removal conducted?
Date Groundwater was encountered:	Commencement date of removal:
Sheen on groundwater?	Volume of groundwater removed prior to sampling:
Free product observed?	Volume of groundwater removed post sampling:
Total number of samples collected:	Total Volume of groundwater removed:
Total number of samples submitted to lab for analysis:	

Photographic Log


Equipment ID: FL01-A@4'		Equipment Type: Flowline	
Material: Steel	Volume:	Contents: Oil/Gas/Water	
Notes/Conditions:			

Equipment ID: FL01-B@4'		Equipment Type: Flowline	
Material: Steel	Volume:	Contents: Oil/Gas/Water	
Notes/Conditions:			

TABLE 1
SOIL SAMPLE LOCATIONS
NOBLE ENERGY, INC. BORN-SITZMAN 02

Soil Sample ID	Date	PID (ppm)	Visual	Olfactory	Sample Type (Grab/Lab)	Latitude ¹	Longitude	PDOP
FL01-A@4'	06/21/23	0.0	No Staining	No Odor	Lab	40.281810	-104.529782	1.0
FL01-B@4'	06/21/23	0.0	No Staining	No Odor	Lab	40.285723	-104.529414	0.8

Notes:

PID = Photoionization detector

ppm = parts per million

PDOP = Position dilution of precision

HC = Hydrocarbon

1.) Latitude and longitude coordinates will be provided in decimal degrees with an accuracy and precision of 5 decimals of a degree using the North American Datum ("NAD") of 1983

**TABLE 2
SOIL ANALYTICAL DATA
NOBLE ENERGY, INC. BORN-SITZMAN 02**

Soil Sample ID	Date	¹ Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	1,2,4 - TMB (mg/kg)	1,3,5 - TMB (mg/kg)	Naphthalene (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-ORO (mg/kg)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benz(a) (mg/kg)	Benzo(a) (mg/kg)	Benzo(b) (mg/kg)	Benzo(k) (mg/kg)	Chrysene (mg/kg)	A,H (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	1,2,3-CD (mg/kg)	Pyrene (mg/kg)	1-M (mg/kg)	2-M (mg/kg)
Residential SSL²		1.2	490	5.8	58	30	27	2	500			360	1,800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180	18	24
Protection of Groundwater SSL^{2,3}		0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500			0.55	6	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	1.3	0.006	0.019
FL01-A@4'	06/21/23	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
FL01-B@4'	06/21/23	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500

Soil Sample ID	Date	pH	SAR	EC (mmhos/cm)	Boron (mg/L)
Residential SSL²		6 - 8.3	<6	<4mmhos/cm	2
FL01-A@4'	06/21/23	7.96	2.48	0.753	0.207
FL01-B@4'	06/21/23	7.86	0.161	0.305	0.157

Notes:

- Compounds referenced from 2 CCR 404-1, Table 915-1, effective January 15, 2021.
- Soil Screening Levels (SSL) referenced from EPA Regional Screening Levels (EPA RSLs) for Chemical Contaminants at Superfund Sites, effective November 2020.
- SSLs are applicable if a pathway for communication with groundwater is present.

Definitions:

COGCC = Colorado Oil and Gas Conservation Commission

TPH-GRO = Total petroleum hydrocarbons - gasoline range organics

TPH-DRO = Total petroleum hydrocarbons - diesel range organics

TPH-ORO = Total petroleum hydrocarbons - oil range organics

mg/kg = Milligrams per kilogram

SAR = Sodium Adsorption Ratio

EC = Electrical Conductivity

mmhos/cm = Millimhos per centimeter

mg/L = Milligrams per liter

< = Analytical result is less than the indicated laboratory reporting limit

Highlighted results are equal to or exceed the COGCC Table 915-1 standard

1,2,4 - TMB = 1,2,4 Trimethylbenzene

1,3,5 - TMB = 1,3,5 Trimethylbenzene

Benzo(a) = Benzo(a)anthracene

Benzo(b) = Benzo(b)fluoranthene

Benzo(k) = Benzo(k)fluoranthene

Benzo(a) = Benzo(a)pyrene

A,H = Dibenzo(a,h)anthracene

1,2,3-CD = Indeno(1,2,3-cd)pyrene

1-M = 1-methylnaphthalene

2-M = 2-methylnaphthalene

FL01-B@4'
(06/21/23)
PID = 0.0 ppm

FL01-A@4'
(06/21/23)
PID = 0.0 ppm

Legend

--- Flowline Location

+ Soil Sample Location – Lab Analyzed
(Collected via Trimble GPS)

Notes

- 1) All locations are approximate unless otherwise noted.
- 2) Buried infrastructure has been spatially projected.
- 3) Analytical results below laboratory detection limits or within compliance of COGCC Table 915-1 not shown.
- 4) Concentration in exceedance of COGCC table 915-1 soil standards indicated in **RED**.

GPS – Global Positioning System
 mg/kg – Milligrams per kilogram
 PID – Photoionization Detector
 ppm – parts per million

0 ft. 175 ft. 300 ft.

Image Source: Google Earth; Google 2020

DATE: 7/21/2023

DESIGNED BY: JW

DRAWN BY: EH



TASMAN
GEOSCIENCES

Tasman Geosciences, Inc.
6855 W 119th Avenue
Broomfield, CO 80020

Noble Energy, Inc. – DJ Basin
Born-Sitzman 02
 NESE, Section 27, Township 4 North, Range 64 West
 Weld County, Colorado

Flowline Closure & Soil
 Analytical Results Map
 (06/21/2023)

FIGURE
1

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

July 05, 2023

Jacob Whritenour

Tasman Geosciences

6855 W. 119th Ave.

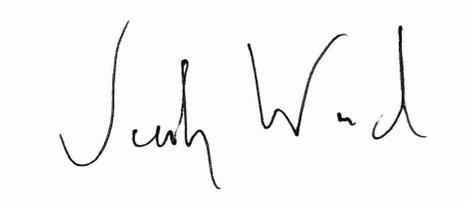
Broomfield, CO 80020

RE: Noble - Born Sitzman 02

Work Order #2306433

Enclosed are the results of analyses for samples received by Summit Scientific on 06/21/23 18:00. 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 horizontal stroke at the end.

Jacob Wood For Paul Shrewsbury

President



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

Project: Noble - Born Sitzman 02

Project Number: UWRWE-A3151-ABN 27926

Project Manager: Jacob Whritenour

Reported:
07/05/23 10:03

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL01-A@4'	2306433-01	Soil	06/21/23 09:29	06/21/23 18:00
FL01-B@4'	2306433-02	Soil	06/21/23 09:50	06/21/23 18:00

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.

S₂

Sample Receipt Checklist

S2 Work Order# 2306433

Client: Noble Fisman Client Project ID: Born-Sitzman O2

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

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

Temp (°C)

Thermometer #

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

AS
Custodian Printed Name

6/21/23
Date/Time



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

Project: Noble - Born Sitzman 02

Project Number: UWRWE-A3151-ABN 27926
Project Manager: Jacob Whritenour

Reported:
07/05/23 10:03

FL01-A@4'
2306433-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/21/23 09:29**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGF0817	06/22/23	06/24/23	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **06/21/23 09:29**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0437	109 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0405	101 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0409	102 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/21/23 09:29**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGF0818	06/22/23	06/22/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **06/21/23 09:29**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	14.2	113 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Project: Noble - Born Sitzman 02
Project Number: UWRWE-A3151-ABN 27926
Project Manager: Jacob Whritenour

Reported:
07/05/23 10:03

FL01-A@4'
2306433-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/21/23 09:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGF0838	06/23/23	06/26/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **06/21/23 09:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0297	89.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0299	89.8 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/21/23 09:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.207	0.0100	mg/L	1	BGF0854	06/23/23	06/27/23	EPA 6020B	

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

Date Sampled: **06/21/23 09:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Born Sitzman 02
Project Number: UWRWE-A3151-ABN 27926
Project Manager: Jacob Whritenour

Reported:
07/05/23 10:03

FL01-A@4'
2306433-01 (Soil)

Summit Scientific

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	33.3	0.0605	mg/L dry	1	BGF0957	06/27/23	06/29/23	EPA 6020B	
Magnesium	7.05	0.0605	"	"	"	"	"	"	
Sodium	60.3	0.0605	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **06/21/23 09:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.48	0.00100	units	1	BGF1138	06/30/23	06/30/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/21/23 09:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.6		%	1	BGF0836	06/23/23	06/23/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/21/23 09:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.753	0.0100	mmhos/cm	1	BGF1027	06/28/23	06/28/23	EPA 120.1	

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

Date Sampled: **06/21/23 09:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.96		pH Units	1	BGF1028	06/28/23	06/28/23	EPA 9045D	

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Project: Noble - Born Sitzman 02
Project Number: UWRWE-A3151-ABN 27926
Project Manager: Jacob Whritenour

Reported:
07/05/23 10:03

FL01-B@4'
2306433-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/21/23 09:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGF0817	06/22/23	06/24/23	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **06/21/23 09:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0435	109 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0411	103 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0408	102 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/21/23 09:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGF0818	06/22/23	06/23/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **06/21/23 09:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	10.8	86.2 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Noble - Born Sitzman 02
Project Number: UWRWE-A3151-ABN 27926
Project Manager: Jacob Whritenour

Reported:
07/05/23 10:03

FL01-B@4'
2306433-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/21/23 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGF0838	06/23/23	06/26/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **06/21/23 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0187	56.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0163	48.9 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/21/23 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.157	0.0100	mg/L	1	BGF0854	06/23/23	06/27/23	EPA 6020B	

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

Date Sampled: **06/21/23 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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

Project: Noble - Born Sitzman 02
Project Number: UWRWE-A3151-ABN 27926
Project Manager: Jacob Whritenour

Reported:
07/05/23 10:03

FL01-B@4'
2306433-02 (Soil)

Summit Scientific

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	38.8	0.0668	mg/L dry	1	BGF0957	06/27/23	06/29/23	EPA 6020B	
Magnesium	6.34	0.0668	"	"	"	"	"	"	
Sodium	4.11	0.0668	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **06/21/23 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.161	0.00100	units	1	BGF1138	06/30/23	06/30/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/21/23 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	74.8		%	1	BGF0836	06/23/23	06/23/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/21/23 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.305	0.0100	mmhos/cm	1	BGF1027	06/28/23	06/28/23	EPA 120.1	

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

Date Sampled: **06/21/23 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.86		pH Units	1	BGF1028	06/28/23	06/28/23	EPA 9045D	

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

Project: Noble - Born Sitzman 02

Project Number: UWRWE-A3151-ABN 27926
Project Manager: Jacob Whritenour

Reported:
07/05/23 10:03

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 BGF0817 - EPA 5030 Soil MS

Blank (BGF0817-BLK1)

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

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>	0.0474		"	0.0400		118	50-150			
<i>Surrogate: Toluene-d8</i>	0.0403		"	0.0400		101	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0425		"	0.0400		106	50-150			

LCS (BGF0817-BS1)

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

Benzene	0.161	0.0020	mg/kg	0.150		107	70-130			
Toluene	0.162	0.0050	"	0.150		108	70-130			
Ethylbenzene	0.162	0.0050	"	0.150		108	70-130			
m,p-Xylene	0.344	0.010	"	0.300		115	70-130			
o-Xylene	0.163	0.0050	"	0.150		108	70-130			
1,2,4-Trimethylbenzene	0.158	0.0050	"	0.150		105	70-130			
1,3,5-Trimethylbenzene	0.156	0.0050	"	0.150		104	70-130			
Naphthalene	0.171	0.0038	"	0.150		114	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0448		"	0.0400		112	50-150			
<i>Surrogate: Toluene-d8</i>	0.0408		"	0.0400		102	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0407		"	0.0400		102	50-150			

Matrix Spike (BGF0817-MS1)

Source: 2306372-01

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

Benzene	0.154	0.0020	mg/kg	0.150	ND	102	70-130			
Toluene	0.160	0.0050	"	0.150	ND	107	70-130			
Ethylbenzene	0.155	0.0050	"	0.150	ND	103	70-130			
m,p-Xylene	0.324	0.010	"	0.300	ND	108	70-130			
o-Xylene	0.154	0.0050	"	0.150	ND	103	70-130			
1,2,4-Trimethylbenzene	0.147	0.0050	"	0.150	ND	98.2	70-130			
1,3,5-Trimethylbenzene	0.145	0.0050	"	0.150	ND	96.5	70-130			
Naphthalene	0.173	0.0038	"	0.150	ND	115	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0454		"	0.0400		114	50-150			
<i>Surrogate: Toluene-d8</i>	0.0403		"	0.0400		101	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0407		"	0.0400		102	50-150			

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

Project: Noble - Born Sitzman 02
Project Number: UWRWE-A3151-ABN 27926
Project Manager: Jacob Whritenour

Reported:
07/05/23 10:03

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

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

Batch BGF0817 - EPA 5030 Soil MS

Matrix Spike Dup (BGF0817-MSD1)	Source: 2306372-01			Prepared: 06/22/23 Analyzed: 06/23/23						
Benzene	0.162	0.0020	mg/kg	0.150	ND	108	70-130	5.10	30	
Toluene	0.168	0.0050	"	0.150	ND	112	70-130	4.94	30	
Ethylbenzene	0.165	0.0050	"	0.150	ND	110	70-130	6.61	30	
m,p-Xylene	0.347	0.010	"	0.300	ND	116	70-130	6.83	30	
o-Xylene	0.161	0.0050	"	0.150	ND	107	70-130	4.55	30	
1,2,4-Trimethylbenzene	0.159	0.0050	"	0.150	ND	106	70-130	7.36	30	
1,3,5-Trimethylbenzene	0.159	0.0050	"	0.150	ND	106	70-130	9.27	30	
Naphthalene	0.175	0.0038	"	0.150	ND	117	70-130	1.47	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0435</i>		<i>"</i>	<i>0.0400</i>		<i>109</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0404</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0399</i>		<i>"</i>	<i>0.0400</i>		<i>99.7</i>	<i>50-150</i>			

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

Project: Noble - Born Sitzman 02
Project Number: UWRWE-A3151-ABN 27926
Project Manager: Jacob Whritenour

Reported:
07/05/23 10:03

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 BGF0818 - EPA 3550A

Blank (BGF0818-BLK1)

Prepared & Analyzed: 06/22/23

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	13.0		"	12.5	104	30-150					

LCS (BGF0818-BS1)

Prepared & Analyzed: 06/22/23

C10-C28 (DRO)	385	50	mg/kg	500	77.0	70-130					
Surrogate: <i>o</i> -Terphenyl	12.1		"	12.5	96.7	30-150					

Matrix Spike (BGF0818-MS1)

Source: 2306372-01

Prepared & Analyzed: 06/22/23

C10-C28 (DRO)	413	50	mg/kg	500	12.8	80.0	70-130				
Surrogate: <i>o</i> -Terphenyl	15.9		"	12.5	128	30-150					

Matrix Spike Dup (BGF0818-MSD1)

Source: 2306372-01

Prepared & Analyzed: 06/22/23

C10-C28 (DRO)	415	50	mg/kg	500	12.8	80.5	70-130	0.572	20		
Surrogate: <i>o</i> -Terphenyl	16.4		"	12.5	131	30-150					

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Project: Noble - Born Sitzman 02
Project Number: UWRWE-A3151-ABN 27926
Project Manager: Jacob Whritenour

Reported:
07/05/23 10:03

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 BGF0838 - EPA 5030 Soil MS

Blank (BGF0838-BLK1)

Prepared: 06/23/23 Analyzed: 06/26/23

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>	<i>0.0301</i>		"	<i>0.0333</i>		<i>90.3</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0300</i>		"	<i>0.0333</i>		<i>90.0</i>	<i>40-150</i>			

LCS (BGF0838-BS1)

Prepared: 06/23/23 Analyzed: 06/26/23

Acenaphthene	0.0299	0.00500	mg/kg	0.0333		89.7	31-137			
Anthracene	0.0308	0.00500	"	0.0333		92.4	30-120			
Benzo (a) anthracene	0.0293	0.00500	"	0.0333		88.0	30-120			
Benzo (a) pyrene	0.0286	0.00500	"	0.0333		85.8	30-120			
Benzo (b) fluoranthene	0.0310	0.00500	"	0.0333		92.9	30-120			
Benzo (k) fluoranthene	0.0334	0.00500	"	0.0333		100	30-120			
Chrysene	0.0321	0.00500	"	0.0333		96.4	30-120			
Dibenz (a,h) anthracene	0.0172	0.00500	"	0.0333		51.5	30-120			
Fluoranthene	0.0316	0.00500	"	0.0333		94.8	30-120			
Fluorene	0.0298	0.00500	"	0.0333		89.5	30-120			
Indeno (1,2,3-cd) pyrene	0.0233	0.00500	"	0.0333		69.8	30-120			
Pyrene	0.0332	0.00500	"	0.0333		99.7	35-142			
1-Methylnaphthalene	0.0253	0.00500	"	0.0333		75.8	35-142			
2-Methylnaphthalene	0.0258	0.00500	"	0.0333		77.4	35-142			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0272</i>		"	<i>0.0333</i>		<i>81.7</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0327</i>		"	<i>0.0333</i>		<i>98.0</i>	<i>40-150</i>			

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

Project: Noble - Born Sitzman 02
Project Number: UWRWE-A3151-ABN 27926
Project Manager: Jacob Whritenour

Reported:
07/05/23 10:03

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 BGF0838 - EPA 5030 Soil MS

Matrix Spike (BGF0838-MS1)	Source: 2306427-01			Prepared: 06/23/23 Analyzed: 06/26/23						
Acenaphthene	0.0185	0.00500	mg/kg	0.0333	ND	55.6	31-137			
Anthracene	0.0176	0.00500	"	0.0333	ND	52.8	30-120			
Benzo (a) anthracene	0.0186	0.00500	"	0.0333	ND	55.8	30-120			
Benzo (a) pyrene	0.0174	0.00500	"	0.0333	ND	52.2	30-120			
Benzo (b) fluoranthene	0.0190	0.00500	"	0.0333	ND	57.1	30-120			
Benzo (k) fluoranthene	0.0208	0.00500	"	0.0333	ND	62.4	30-120			
Chrysene	0.0203	0.00500	"	0.0333	ND	60.8	30-120			
Dibenz (a,h) anthracene	0.0160	0.00500	"	0.0333	ND	48.0	30-120			
Fluoranthene	0.0186	0.00500	"	0.0333	ND	55.9	30-120			
Fluorene	0.0189	0.00500	"	0.0333	ND	56.7	30-120			
Indeno (1,2,3-cd) pyrene	0.0175	0.00500	"	0.0333	ND	52.4	30-120			
Pyrene	0.0201	0.00500	"	0.0333	ND	60.3	35-142			
1-Methylnaphthalene	0.0186	0.00500	"	0.0333	ND	55.8	15-130			
2-Methylnaphthalene	0.0196	0.00500	"	0.0333	ND	58.9	15-130			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0200</i>		<i>"</i>	<i>0.0333</i>		<i>60.1</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0197</i>		<i>"</i>	<i>0.0333</i>		<i>59.2</i>	<i>40-150</i>			

Matrix Spike Dup (BGF0838-MSD1)	Source: 2306427-01			Prepared: 06/23/23 Analyzed: 06/26/23						
Acenaphthene	0.0211	0.00500	mg/kg	0.0333	ND	63.2	31-137	12.9	30	
Anthracene	0.0204	0.00500	"	0.0333	ND	61.2	30-120	14.8	30	
Benzo (a) anthracene	0.0216	0.00500	"	0.0333	ND	64.9	30-120	15.0	30	
Benzo (a) pyrene	0.0205	0.00500	"	0.0333	ND	61.5	30-120	16.4	30	
Benzo (b) fluoranthene	0.0210	0.00500	"	0.0333	ND	63.0	30-120	9.97	30	
Benzo (k) fluoranthene	0.0219	0.00500	"	0.0333	ND	65.8	30-120	5.29	30	
Chrysene	0.0226	0.00500	"	0.0333	ND	67.9	30-120	11.2	30	
Dibenz (a,h) anthracene	0.0174	0.00500	"	0.0333	ND	52.2	30-120	8.37	30	
Fluoranthene	0.0206	0.00500	"	0.0333	ND	61.9	30-120	10.2	30	
Fluorene	0.0207	0.00500	"	0.0333	ND	62.2	30-120	9.19	30	
Indeno (1,2,3-cd) pyrene	0.0231	0.00500	"	0.0333	ND	69.2	30-120	27.6	30	
Pyrene	0.0217	0.00500	"	0.0333	ND	65.2	35-142	7.92	30	
1-Methylnaphthalene	0.0215	0.00500	"	0.0333	ND	64.6	15-130	14.6	50	
2-Methylnaphthalene	0.0208	0.00500	"	0.0333	ND	62.3	15-130	5.52	50	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0223</i>		<i>"</i>	<i>0.0333</i>		<i>67.0</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0218</i>		<i>"</i>	<i>0.0333</i>		<i>65.4</i>	<i>40-150</i>			

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

Project: Noble - Born Sitzman 02
Project Number: UWRWE-A3151-ABN 27926
Project Manager: Jacob Whritenour

Reported:
07/05/23 10:03

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	Limit	

Batch BGF0854 - EPA 3050B

Blank (BGF0854-BLK1)

Prepared: 06/23/23 Analyzed: 06/27/23

Boron ND 0.0100 mg/L

LCS (BGF0854-BS1)

Prepared: 06/23/23 Analyzed: 06/27/23

Boron 4.99 0.0100 mg/L 5.00 99.9 80-120

Duplicate (BGF0854-DUP1)

Source: 2306426-01

Prepared: 06/23/23 Analyzed: 06/27/23

Boron 0.186 0.0100 mg/L 0.195 4.80 20

Matrix Spike (BGF0854-MS1)

Source: 2306426-01

Prepared: 06/23/23 Analyzed: 06/27/23

Boron 4.93 0.0100 mg/L 5.00 0.195 94.6 75-125

Matrix Spike Dup (BGF0854-MSD1)

Source: 2306426-01

Prepared: 06/23/23 Analyzed: 06/27/23

Boron 5.25 0.0100 mg/L 5.00 0.195 101 75-125 6.27 25

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

Project: Noble - Born Sitzman 02

Project Number: UWRWE-A3151-ABN 27926
Project Manager: Jacob Whritenour

Reported:
07/05/23 10:03

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

Summit Scientific

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

Batch BGF0957 - General Preparation

Blank (BGF0957-BLK1)

Prepared: 06/27/23 Analyzed: 06/29/23

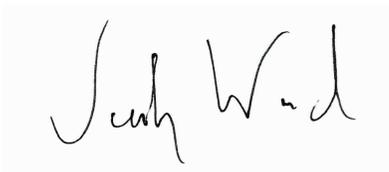
Calcium	ND	0.0500	mg/L wet							
Magnesium	ND	0.0500	"							
Sodium	ND	0.0500	"							

LCS (BGF0957-BS1)

Prepared: 06/27/23 Analyzed: 06/29/23

Calcium	5.66	0.0500	mg/L wet	5.00	113	70-130				
Magnesium	5.18	0.0500	"	5.00	104	70-130				
Sodium	5.49	0.0500	"	5.00	110	70-130				

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

Project: Noble - Born Sitzman 02

Project Number: UWRWE-A3151-ABN 27926
 Project Manager: Jacob Whritenour

Reported:
 07/05/23 10:03

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 BGF0836 - General Preparation

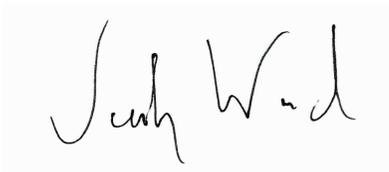
Duplicate (BGF0836-DUP1)

Source: 2306430-01

Prepared & Analyzed: 06/23/23

% Solids	76.7		%		77.7			1.19	20	
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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Born Sitzman 02

Project Number: UWRWE-A3151-ABN 27926
Project Manager: Jacob Whritenour

Reported:
07/05/23 10:03

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 BGF1027 - General Preparation

Blank (BGF1027-BLK1)

Prepared & Analyzed: 06/28/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGF1027-BS1)

Prepared & Analyzed: 06/28/23

Specific Conductance (EC) 0.154 0.0100 mmhos/cm 0.150 103 95-105

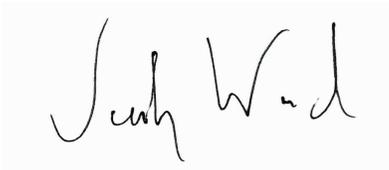
Duplicate (BGF1027-DUP1)

Source: 2306430-01

Prepared & Analyzed: 06/28/23

Specific Conductance (EC) 5.19 0.0100 mmhos/cm 5.25 1.21 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 - Born Sitzman 02

Project Number: UWRWE-A3151-ABN 27926
Project Manager: Jacob Whritenour

Reported:
07/05/23 10:03

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 BGF1028 - General Preparation

LCS (BGF1028-BS1)

Prepared & Analyzed: 06/28/23

pH 9.25 pH Units 9.18 101 95-105

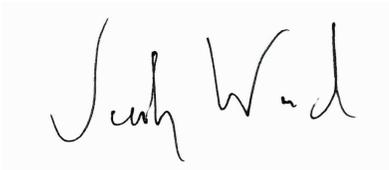
Duplicate (BGF1028-DUP1)

Source: 2306430-01

Prepared & Analyzed: 06/28/23

pH 7.87 pH Units 7.89 0.254 20

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Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference