Flowline Closure Checklist

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

Additional Attachments:		Tank Battery Closure		Wellhead Closure		Pit Closure		Partially Buried Vault Closure

Site Name & ECMC Facility Number: UNI UPR C25-6	Date: 2/12/2024, 2/13/2024	Remediation Project #: 22716
Associated Wells:	Age of Site:	Number of Photos Attached: 9

Starting point: (GPS coordinates and descriptions)
40.285498, -104.501596

End point: (GPS coordinates and descriptions)
40.2854688, -104.501593

USCS Soil Type: SM	Estimated Depth to Groundwater: >4'

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 / Gas / Water			
Depth	3'			
Age				
Length	1,908'			
Construction Material	Steel			
Were flowlines pulled?	Yes			
Visual Integrity of lines	Good			
Visual impacts if trenched	None			
PID Readings if trenched	0.0 - 0.2			
Sample taken? Location/Sample ID#	Yes, see below			
Photo Number(s)				

Other observations regarding on location flowlines:

Samples were taken along the flowline path (FL01-C@3' - FL01-K@3').

Summary

Was impacted soil identified? No

Total number of samples field screened: 9	Total number of samples collected: 9
Highest PID Reading: 0.2	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:	

TASMAN GEOSCIENCES

Photographic Log

Equipment ID: FL01-C@3'	Equipment Type:	
Material:	Volume:	Contents:
Notes/Conditions:		

Equipment ID: FL01-D@3'	Equipment Type:	
Material:	Volume:	Contents:
Notes/Conditions:		

TASMAN GEOSCIENCES

Photographic Log

Equipment ID: FL01-E@4'	Equipment Type:	
Material:	Volume:	Contents:
Notes/Conditions:		

Equipment ID: FL01-F@4'	Equipment Type:	
Material:	Volume:	Contents:
Notes/Conditions:		

TASMAN GEOSCIENCES

Photographic Log

Equipment ID: FL01-G@3'	Equipment Type:	
Material:	Volume:	Contents:
Notes/Conditions:		

Equipment ID: FL01-H@3'	Equipment Type:	
Material:	Volume:	Contents:
Notes/Conditions:		

TASMAN GEOSCIENCES

Photographic Log

Equipment ID: FL01-I@3'	Equipment Type:	
Material:	Volume:	Contents:
Notes/Conditions:		

Equipment ID: FL01-J@3'	Equipment Type:	
Material:	Volume:	Contents:
Notes/Conditions:		

TASMAN GEOSCIENCES

Photographic Log

Equipment ID: FL01-K@3'	Equipment Type:		Equipment ID:	Equipment Type:	
Material:	Volume:	Contents:	Material:	Volume:	Contents:
Notes/Conditions:			Notes/Conditions:		

TABLE 1
SOIL SAMPLE LOCATIONS
NOBLE ENERGY, INC. - UNI UPR C25-06

Soil Sample ID	Date	PID (ppm)	Visual	Olfactory	Sample Type (Grab/Lab)	Latitude[1]	Longitude[1]	PDOP
FL01-C@3'	02/12/24	0.2	No Staining	No Odor	Grab	40.285441	-104.501883	0.8
FL01-D@3'	02/12/24	0.0	No Staining	No Odor	Lab	40.285535	-104.502199	0.9
FL01-E@4'	02/12/24	0.0	No Staining	No Odor	Lab	40.285742	-104.502369	0.9
FL01-F@4'	02/12/24	0.1	No Staining	No Odor	Grab	40.286033	-104.502422	0.9
FL01-G@3'	02/13/24	0.0	No Staining	No Odor	Grab	40.286752	-104.502647	0.9
FL01-H@3'	02/13/24	0.0	No Staining	No Odor	Grab	40.287653	-104.502982	0.8
FL01-I@4'	02/13/24	0.0	No Staining	No Odor	Grab	40.288547	-104.503313	0.8
FL01-J@4'	02/13/24	0.0	No Staining	No Odor	Grab	40.288875	-104.503454	0.9
FL01-K@3'	02/13/24	0.0	No Staining	No Odor	Grab	40.289370	-104.503624	0.8

Notes:

PID = Photoionization detector

ppm = parts per million

PDOP = Position dilution of precision

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. - UNI UPR C25-06

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 SSL[1,2]		**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[1,2,3]		**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-D@3'	02/12/24	<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-E@4'	02/12/24	<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)
SSR[1,2]		**6 - 8.3**	**<6**	**<4mmhos/cm**	**2**
FL01-D@3'	02/12/24	8.14	2.27	0.531	<2.00
FL01-E@4'	02/12/24	**8.31**	2.11	0.441	<2.00

Soil Sample ID	Date	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
Residential SSL[1,2]		**0.68**	**15,000**	**71**	**0.3**	**3,100**	**400**	**1,500**	**390**	**390**	**23,000**
Protection of Groundwater SSL[1,2,3]		**0.29**	**82**	**0.38**	**0.00067**	**46**	**14**	**26**	**0.26**	**0.8**	**370**
FL01-D@3'	02/12/24	**1.02**	28.7	<0.200	<0.080	1.78	2.84	1.82	<0.260	0.0266	8.81
FL01-E@4'	02/12/24	**1.08**	29.9	<0.200	<0.080	1.83	2.91	2.17	<0.260	<0.0200	8.83

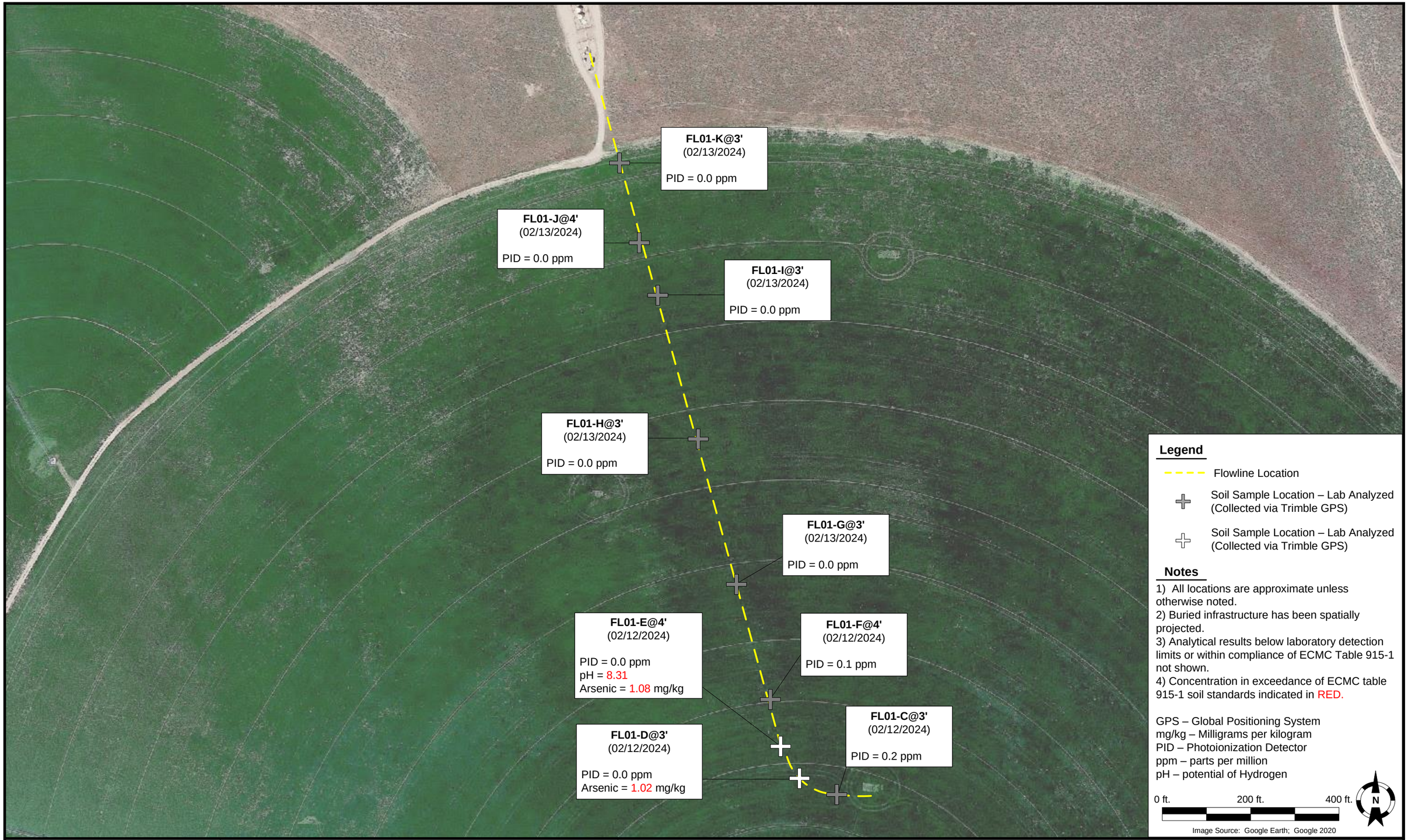
Notes:

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

Definitions:

ECMC = Energy & Carbon Management 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 = Millmhos 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 ECMC Table 915-1 standard

1,2,4 - TMB = 1,2,4 Trimethylbenzene
1,3,5 - TMB = 1,3,5 Trimethylbenzene
Benz(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



DATE:	03/06/2024
DESIGNED BY:	JW
DRAWN BY:	KS

TASMAN GEOSCIENCES

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

Noble Energy, Inc. – DJ Basin
UNI UPR C25-06
SENW, Section 25, Township 4 North, Range 64 West
Weld County, Colorado

Flowline Closure & Soil Analytical Results Map
(02/12/2024, 02/13/2024)

FIGURE
1

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

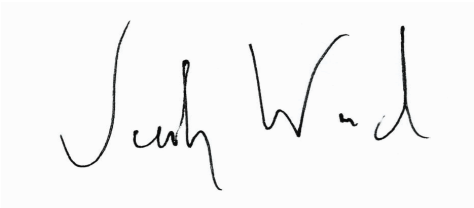
April 08, 2024

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

RE: Noble - UNI UPR C 25-06 Flowline
Work Order #2402221

Enclosed are the results of analyses for samples received by Summit Scientific on 02/12/24 17:32. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Jacob Wood For Paul Shrewsbury
President

S2

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - UNI UPR C 25-06 Flowline Project Number: UWRWE-A2397-ABN Project Manager: Jacob Whritenour	**Reported:** 04/08/24 13:20

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL01-D@3'	2402221-01	Soil	02/12/24 14:06	02/12/24 17:32
FL01-E@3'	2402221-02	Soil	02/12/24 14:18	02/12/24 17:32

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
240221	

	Send Data To:	Send Invoice To:
Client: Noble/Tasman	Project Manager: Jake Whritenour	Company: Noble/Chevron
Address: 6855 W. 119th Avenue	E-Mail: jwhritenour@tasman-geo.com	Project Name/Location:
City/State/Zip: Broomfield, CO 80020		AFE#: UWRWE-A2397-ABN
Phone:	Project Name: UNI UPR C25-6 Flowline	PO/Billing Codes:
Sampler Name: David V. Kaitlin S.	Project Number:	Contact: Miguel Barron

					Preservative				Matrix				Analysis Requested								Special Instructions
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other ___	Water	Soil	Air-Canister #	Other ___	915-VOC	915-PAH	915-TPH	pH, EC, SAR	Boron	915-Metals			
1	FL01-D@3'	2/12/24	1406	3			X			X			X	X	X	X	X	X			
2	FL01-E@4'	2/12/24	1418	3			X			X			X	X	X	X	X	X			
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					
13																					
14																					
15																					

Relinquished by:	Date/Time:	Received by:	Date/Time:
[signature]	2/12/24 1630	Tasman lockbox	2/12/24 1630
Tasman lockbox	2/12/24 1732	[signature]	2/12/24 1732
Relinquished by:	Date/Time:	Received by:	Date/Time:

TAT Business Days	
Same Day	
1 Day	
2 Days	
3 Days	
Standard	X

Field DO	
Field EC	
Field ORP	
Field pH	
Field Temp.	
Field Turb.	

Notes:

Temperature Upon Receipt: 8.1 | Corrected Temperature: C | IR gun #: 1 | HNO3 lot #:

S2

Sample Receipt Checklist S2 Work Order# 2402221

Client: Nobletasman Client Project ID: UNI UPR C256 Flowline

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

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

Temp (°C) [8.1] Thermometer # [1]

	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.	–			ON ICE
If custody seals are present, are they intact? (1)	–			
Are samples due within 48 hours present?		–		
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		–		
Is a chain-of-custody (COC) form present and filled out Completely? (1)	–			
Is the COC properly relinquished by the client w/ date and time recorded? (1)	–			
Were all samples received intact? (1)	✓			
Was adequate sample volume provided? (1)	✓			
Does the COC agree with the number and type of sample bottles received? (1)	✓			
Do the sample IDs on the bottle labels match the COC? (1)	✓			
For volatiles in water – is there headspace present? **If yes, contact client and note in narrative.**			✓	
Are samples preserved that require preservation **(excluding cooling)?** (1) Note the type of preservative in the comments column – HCl, H_2SO_4, NaOH, HNO_3, etc.			✓	
If samples are acid preserved for metals, is the pH ≤ 2? (1) Record the pH in Comments.			✓	
If dissolved metals are requested, were samples field filtered?			✓	
Additional Comments (if any):				
(1) **If NO, then contact the client before proceeding with analysis and note in case narrative.**				

AS
Custodian Printed Name

2/12/24
Date/Time

S2

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - UNI UPR C 25-06 Flowline Project Number: UWRWE-A2397-ABN Project Manager: Jacob Whritenour	**Reported:** 04/08/24 13:20

FL01-D@3'

2402221-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/12/24 14:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHB0420	02/13/24	02/14/24	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: **02/12/24 14:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0423	*106 %*	*50-150*		"	"	"	"	
Surrogate: Toluene-d8	0.0423	*106 %*	*50-150*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0417	*104 %*	*50-150*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

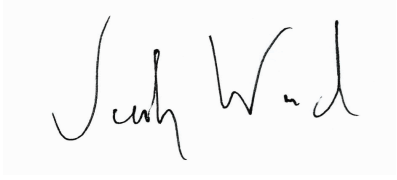
Date Sampled: **02/12/24 14:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHB0421	02/13/24	02/14/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/12/24 14:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	16.1	*128 %*	*30-150*		"	"	"	"	

PAH by EPA Method 8270D SIM



S2

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - UNI UPR C 25-06 Flowline Project Number: UWRWE-A2397-ABN Project Manager: Jacob Whritenour	**Reported:** 04/08/24 13:20

FL01-D@3'

2402221-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **02/12/24 14:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHB0412	02/13/24	02/14/24	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: **02/12/24 14:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0160	*48.0 %*	*40-150*		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0185	*55.6 %*	*40-150*		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/12/24 14:06**

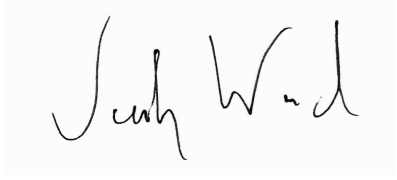
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHB0684	02/21/24	02/23/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **02/12/24 14:06**

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.

S2

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - UNI UPR C 25-06 Flowline Project Number: UWRWE-A2397-ABN Project Manager: Jacob Whritenour	**Reported:** 04/08/24 13:20

FL01-D@3'

2402221-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	**1.02**	0.200	mg/kg dry	1	BHC1046	03/28/24	04/05/24	EPA 6020B	
Barium	**28.7**	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	**1.78**	0.400	"	"	"	"	"	"	
Lead	**2.84**	0.200	"	"	"	"	"	"	
Nickel	**1.82**	0.400	"	"	"	"	"	"	
Silver	**0.0266**	0.0200	"	"	"	"	"	"	
Zinc	**8.81**	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

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

Date Sampled: **02/12/24 14:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**161**	0.0500	mg/L dry	1	BHB0503	02/15/24	02/20/24	EPA 6020B	
Magnesium	**59.8**	0.0500	"	"	"	"	"	"	
Sodium	**133**	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **02/12/24 14:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**2.27**	0.00100	units	1	BHB0739	02/22/24	02/22/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/12/24 14:06**

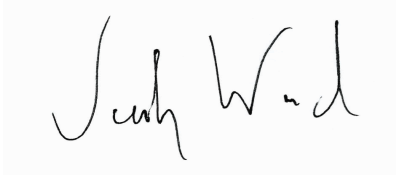
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**96.1**		%	1	BHB0718	02/22/24	02/22/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/12/24 14:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Summit Scientific



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S2

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - UNI UPR C 25-06 Flowline Project Number: UWRWE-A2397-ABN Project Manager: Jacob Whritenour	**Reported:** 04/08/24 13:20

FL01-D@3'

2402221-01 (Soil)

Summit Scientific

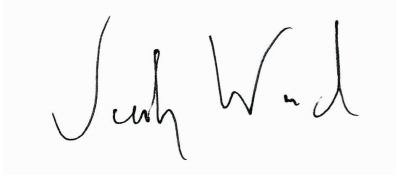
Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Specific Conductance (EC)	**0.531**	0.0100	mmhos/cm	1	BHB0540	02/16/24	02/20/24	EPA 120.1

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

Date Sampled: **02/12/24 14:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	**8.14**		pH Units	1	BHB0539	02/16/24	02/20/24	EPA 9045D	



S2

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - UNI UPR C 25-06 Flowline Project Number: UWRWE-A2397-ABN Project Manager: Jacob Whritenour	**Reported:** 04/08/24 13:20

FL01-E@3'

2402221-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/12/24 14:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHB0420	02/13/24	02/14/24	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: **02/12/24 14:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0389	*97.3 %*	*50-150*		"	"	"	"	
Surrogate: Toluene-d8	0.0422	*106 %*	*50-150*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0406	*101 %*	*50-150*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **02/12/24 14:18**

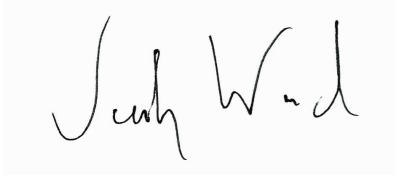
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHB0421	02/13/24	02/14/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/12/24 14:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	16.2	*129 %*	*30-150*		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific



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S2

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - UNI UPR C 25-06 Flowline Project Number: UWRWE-A2397-ABN Project Manager: Jacob Whritenour	**Reported:** 04/08/24 13:20

FL01-E@3'

2402221-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **02/12/24 14:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHB0412	02/13/24	02/14/24	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: **02/12/24 14:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0161	*48.4 %*	*40-150*		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0199	*59.6 %*	*40-150*		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/12/24 14:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHB0684	02/21/24	02/23/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **02/12/24 14:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Summit Scientific

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S2

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - UNI UPR C 25-06 Flowline Project Number: UWRWE-A2397-ABN Project Manager: Jacob Whritenour	**Reported:** 04/08/24 13:20

FL01-E@3'

2402221-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	**1.08**	0.200	mg/kg dry	1	BHC1046	03/28/24	04/05/24	EPA 6020B	
Barium	**29.9**	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	**1.83**	0.400	"	"	"	"	"	"	
Lead	**2.91**	0.200	"	"	"	"	"	"	
Nickel	**2.17**	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	**8.83**	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

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

Date Sampled: **02/12/24 14:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**123**	0.0500	mg/L dry	1	BHB0503	02/15/24	02/20/24	EPA 6020B	
Magnesium	**41.6**	0.0500	"	"	"	"	"	"	
Sodium	**106**	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **02/12/24 14:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**2.11**	0.00100	units	1	BHB0739	02/22/24	02/22/24	Calculation	

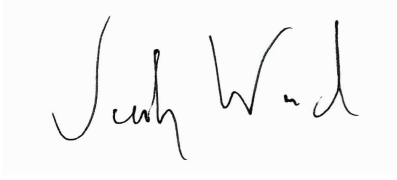
Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/12/24 14:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**95.9**		%	1	BHB0718	02/22/24	02/22/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Summit Scientific



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S2

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - UNI UPR C 25-06 Flowline Project Number: UWRWE-A2397-ABN Project Manager: Jacob Whritenour	**Reported:** 04/08/24 13:20

FL01-E@3'

2402221-02 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/12/24 14:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.441**	0.0100	mmhos/cm	1	BHB0540	02/16/24	02/20/24	EPA 120.1	

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

Date Sampled: **02/12/24 14:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	**8.31**		pH Units	1	BHB0539	02/16/24	02/20/24	EPA 9045D	

Summit Scientific

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S2

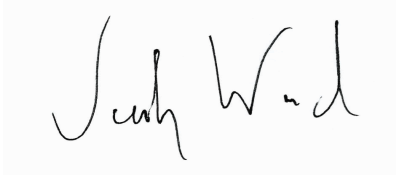
Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - UNI UPR C 25-06 Flowline Project Number: UWRWE-A2397-ABN Project Manager: Jacob Whritenour	**Reported:** 04/08/24 13:20

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHB0420 - EPA 5030 Soil MS										
Blank (BHB0420-BLK1)				Prepared & Analyzed: 02/13/24						
Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	*0.0379*		*"*	*0.0400*		*94.8*	*50-150*			
Surrogate: Toluene-d8	*0.0403*		*"*	*0.0400*		*101*	*50-150*			
Surrogate: 4-Bromofluorobenzene	*0.0424*		*"*	*0.0400*		*106*	*50-150*			
LCS (BHB0420-BS1)				Prepared & Analyzed: 02/13/24						
Benzene	0.105	0.0020	mg/kg	0.100		105	70-130			
Toluene	0.0989	0.0050	"	0.100		98.9	70-130			
Ethylbenzene	0.0965	0.0050	"	0.100		96.5	70-130			
m,p-Xylene	0.183	0.010	"	0.200		91.5	70-130			
o-Xylene	0.0909	0.0050	"	0.100		90.9	70-130			
1,2,4-Trimethylbenzene	0.0929	0.0050	"	0.100		92.9	70-130			
1,3,5-Trimethylbenzene	0.0909	0.0050	"	0.100		90.9	70-130			
Naphthalene	0.118	0.0038	"	0.100		118	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0380*		*"*	*0.0400*		*95.1*	*50-150*			
Surrogate: Toluene-d8	*0.0401*		*"*	*0.0400*		*100*	*50-150*			
Surrogate: 4-Bromofluorobenzene	*0.0416*		*"*	*0.0400*		*104*	*50-150*			
Matrix Spike (BHB0420-MS1)	**Source: 2402152-01**			Prepared & Analyzed: 02/13/24						
Benzene	0.0964	0.0020	mg/kg	0.100	ND	96.4	70-130			
Toluene	0.0871	0.0050	"	0.100	ND	87.1	70-130			
Ethylbenzene	0.0787	0.0050	"	0.100	ND	78.7	70-130			
m,p-Xylene	0.154	0.010	"	0.200	ND	77.2	70-130			
o-Xylene	0.0810	0.0050	"	0.100	ND	81.0	70-130			
1,2,4-Trimethylbenzene	0.0677	0.0050	"	0.100	ND	67.7	70-130			QM-07
1,3,5-Trimethylbenzene	0.0755	0.0050	"	0.100	ND	75.5	70-130			
Naphthalene	0.0655	0.0038	"	0.100	ND	65.5	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	*0.0373*		*"*	*0.0400*		*93.3*	*50-150*			
Surrogate: Toluene-d8	*0.0408*		*"*	*0.0400*		*102*	*50-150*			
Surrogate: 4-Bromofluorobenzene	*0.0417*		*"*	*0.0400*		*104*	*50-150*			

Summit Scientific



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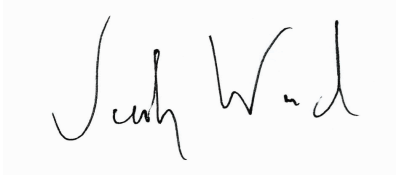
Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - UNI UPR C 25-06 Flowline Project Number: UWRWE-A2397-ABN Project Manager: Jacob Whritenour	**Reported:** 04/08/24 13:20

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHB0420 - EPA 5030 Soil MS										
Matrix Spike Dup (BHB0420-MSD1)	**Source: 2402152-01**			Prepared & Analyzed: 02/13/24						
Benzene	0.0982	0.0020	mg/kg	0.100	ND	98.2	70-130	1.82	30	
Toluene	0.0879	0.0050	"	0.100	ND	87.9	70-130	0.926	30	
Ethylbenzene	0.0756	0.0050	"	0.100	ND	75.6	70-130	3.97	30	
m,p-Xylene	0.151	0.010	"	0.200	ND	75.7	70-130	1.98	30	
o-Xylene	0.0806	0.0050	"	0.100	ND	80.6	70-130	0.446	30	
1,2,4-Trimethylbenzene	0.0638	0.0050	"	0.100	ND	63.8	70-130	5.98	30	QM-07
1,3,5-Trimethylbenzene	0.0753	0.0050	"	0.100	ND	75.3	70-130	0.199	30	
Naphthalene	0.0612	0.0038	"	0.100	ND	61.2	70-130	6.82	30	QM-07
Surrogate: 1,2-Dichloroethane-d4	*0.0393*		*"*	*0.0400*		*98.3*	*50-150*			
Surrogate: Toluene-d8	*0.0414*		*"*	*0.0400*		*104*	*50-150*			
Surrogate: 4-Bromofluorobenzene	*0.0423*		*"*	*0.0400*		*106*	*50-150*			



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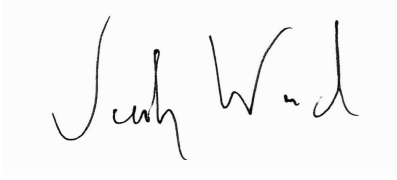
S2

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - UNI UPR C 25-06 Flowline Project Number: UWRWE-A2397-ABN Project Manager: Jacob Whritenour	**Reported:** 04/08/24 13:20

Extractable Petroleum Hydrocarbons by 8015 - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHB0421 - EPA 3550A										
Blank (BHB0421-BLK1)				Prepared & Analyzed: 02/13/24						
C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	*9.81*		*"*	*12.5*		*78.5*	*30-150*			
LCS (BHB0421-BS1)				Prepared & Analyzed: 02/13/24						
C10-C28 (DRO)	396	50	mg/kg	500		79.2	70-130			
Surrogate: o-Terphenyl	*16.5*		*"*	*12.5*		*132*	*30-150*			
Matrix Spike (BHB0421-MS1)	**Source: 2402152-01**			Prepared & Analyzed: 02/13/24						
C10-C28 (DRO)	393	50	mg/kg	500	15.2	75.5	70-130			
Surrogate: o-Terphenyl	*17.3*		*"*	*12.5*		*138*	*30-150*			
Matrix Spike Dup (BHB0421-MSD1)	**Source: 2402152-01**			Prepared & Analyzed: 02/13/24						
C10-C28 (DRO)	414	50	mg/kg	500	15.2	79.8	70-130	5.25	20	
Surrogate: o-Terphenyl	*17.2*		*"*	*12.5*		*137*	*30-150*			



S2

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - UNI UPR C 25-06 Flowline Project Number: UWRWE-A2397-ABN Project Manager: Jacob Whritenour	**Reported:** 04/08/24 13:20

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHB0412 - EPA 5030 Soil MS										
Blank (BHB0412-BLK1)				Prepared & Analyzed: 02/13/24						
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	"							
Surrogate: 2-Methylnaphthalene-d10	*0.0140*		*"*	*0.0333*		*42.1*	*40-150*			
Surrogate: Fluoranthene-d10	*0.0290*		*"*	*0.0333*		*87.0*	*40-150*			
LCS (BHB0412-BS1)				Prepared & Analyzed: 02/13/24						
Acenaphthene	0.0285	0.00500	mg/kg	0.0333		85.4	31-137			
Anthracene	0.0310	0.00500	"	0.0333		92.9	30-120			
Benzo (a) anthracene	0.0279	0.00500	"	0.0333		83.8	30-120			
Benzo (a) pyrene	0.0271	0.00500	"	0.0333		81.3	30-120			
Benzo (b) fluoranthene	0.0282	0.00500	"	0.0333		84.5	30-120			
Benzo (k) fluoranthene	0.0311	0.00500	"	0.0333		93.4	30-120			
Chrysene	0.0312	0.00500	"	0.0333		93.5	30-120			
Dibenz (a,h) anthracene	0.0235	0.00500	"	0.0333		70.4	30-120			
Fluoranthene	0.0303	0.00500	"	0.0333		90.9	30-120			
Fluorene	0.0314	0.00500	"	0.0333		94.1	30-120			
Indeno (1,2,3-cd) pyrene	0.0235	0.00500	"	0.0333		70.4	30-120			
Pyrene	0.0310	0.00500	"	0.0333		92.9	35-142			
1-Methylnaphthalene	0.0223	0.00500	"	0.0333		66.8	35-142			
2-Methylnaphthalene	0.0288	0.00500	"	0.0333		86.5	35-142			
Surrogate: 2-Methylnaphthalene-d10	*0.0250*		*"*	*0.0333*		*75.0*	*40-150*			
Surrogate: Fluoranthene-d10	*0.0301*		*"*	*0.0333*		*90.3*	*40-150*			

Summit Scientific

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S2

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - UNI UPR C 25-06 Flowline Project Number: UWRWE-A2397-ABN Project Manager: Jacob Whritenour	**Reported:** 04/08/24 13:20

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHB0412 - EPA 5030 Soil MS										
Matrix Spike (BHB0412-MS1)	**Source: 2402119-03**			Prepared & Analyzed: 02/13/24						
Acenaphthene	0.0219	0.00500	mg/kg	0.0333	ND	65.6	31-137			
Anthracene	0.0233	0.00500	"	0.0333	ND	69.9	30-120			
Benzo (a) anthracene	0.0254	0.00500	"	0.0333	ND	76.1	30-120			
Benzo (a) pyrene	0.0232	0.00500	"	0.0333	ND	69.5	30-120			
Benzo (b) fluoranthene	0.0246	0.00500	"	0.0333	ND	73.7	30-120			
Benzo (k) fluoranthene	0.0228	0.00500	"	0.0333	ND	68.5	30-120			
Chrysene	0.0235	0.00500	"	0.0333	ND	70.5	30-120			
Dibenz (a,h) anthracene	0.0168	0.00500	"	0.0333	ND	50.3	30-120			
Fluoranthene	0.0260	0.00500	"	0.0333	ND	77.9	30-120			
Fluorene	0.0227	0.00500	"	0.0333	ND	68.2	30-120			
Indeno (1,2,3-cd) pyrene	0.0178	0.00500	"	0.0333	ND	53.4	30-120			
Pyrene	0.0281	0.00500	"	0.0333	ND	84.4	35-142			
1-Methylnaphthalene	0.0200	0.00500	"	0.0333	ND	60.1	15-130			
2-Methylnaphthalene	0.0238	0.00500	"	0.0333	ND	71.3	15-130			
Surrogate: 2-Methylnaphthalene-d10	*0.0200*		*"*	*0.0333*		*60.0*	*40-150*			
Surrogate: Fluoranthene-d10	*0.0238*		*"*	*0.0333*		*71.4*	*40-150*			
Matrix Spike Dup (BHB0412-MSD1)	**Source: 2402119-03**			Prepared & Analyzed: 02/13/24						
Acenaphthene	0.0171	0.00500	mg/kg	0.0333	ND	51.4	31-137	24.4	30	
Anthracene	0.0180	0.00500	"	0.0333	ND	53.9	30-120	25.9	30	
Benzo (a) anthracene	0.0194	0.00500	"	0.0333	ND	58.3	30-120	26.5	30	
Benzo (a) pyrene	0.0171	0.00500	"	0.0333	ND	51.4	30-120	29.9	30	
Benzo (b) fluoranthene	0.0215	0.00500	"	0.0333	ND	64.4	30-120	13.4	30	
Benzo (k) fluoranthene	0.0196	0.00500	"	0.0333	ND	58.9	30-120	15.1	30	
Chrysene	0.0189	0.00500	"	0.0333	ND	56.6	30-120	22.0	30	
Dibenz (a,h) anthracene	0.0155	0.00500	"	0.0333	ND	46.6	30-120	7.63	30	
Fluoranthene	0.0214	0.00500	"	0.0333	ND	64.2	30-120	19.2	30	
Fluorene	0.0199	0.00500	"	0.0333	ND	59.7	30-120	13.3	30	
Indeno (1,2,3-cd) pyrene	0.0155	0.00500	"	0.0333	ND	46.6	30-120	13.6	30	
Pyrene	0.0217	0.00500	"	0.0333	ND	65.1	35-142	25.8	30	
1-Methylnaphthalene	0.0188	0.00500	"	0.0333	ND	56.4	15-130	6.49	50	
2-Methylnaphthalene	0.0359	0.00500	"	0.0333	ND	108	15-130	40.7	50	
Surrogate: 2-Methylnaphthalene-d10	*0.0160*		*"*	*0.0333*		*48.0*	*40-150*			
Surrogate: Fluoranthene-d10	*0.0170*		*"*	*0.0333*		*51.1*	*40-150*			

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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

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - UNI UPR C 25-06 Flowline Project Number: UWRWE-A2397-ABN Project Manager: Jacob Whritenour	**Reported:** 04/08/24 13:20

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

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHB0684 - EPA 3050B										
Blank (BHB0684-BLK1)				Prepared: 02/21/24 Analyzed: 02/23/24						
Boron	ND	2.00	mg/L							
LCS (BHB0684-BS1)				Prepared: 02/21/24 Analyzed: 02/23/24						
Boron	4.53	2.00	mg/L	5.00		90.6	80-120			
Duplicate (BHB0684-DUP1)		**Source: 2402152-02**		Prepared: 02/21/24 Analyzed: 02/23/24						
Boron	0.252	2.00	mg/L		0.297			16.2	20	
Matrix Spike (BHB0684-MS1)		**Source: 2402152-02**		Prepared: 02/21/24 Analyzed: 02/23/24						
Boron	4.65	2.00	mg/L	5.00	0.297	87.0	75-125			
Matrix Spike Dup (BHB0684-MSD1)		**Source: 2402152-02**		Prepared: 02/21/24 Analyzed: 02/23/24						
Boron	4.83	2.00	mg/L	5.00	0.297	90.6	75-125	3.77	25	

Summit Scientific

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Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - UNI UPR C 25-06 Flowline Project Number: UWRWE-A2397-ABN Project Manager: Jacob Whritenour	**Reported:** 04/08/24 13:20

Total Metals by EPA 6020B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHC1046 - EPA 3050B										
Blank (BHC1046-BLK1)				Prepared: 03/28/24 Analyzed: 04/05/24						
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 (BHC1046-BS1)				Prepared: 03/28/24 Analyzed: 04/05/24						
Arsenic	38.6	0.200	mg/kg wet	40.0		96.6	80-120			
Barium	39.6	0.400	"	40.0		99.0	80-120			
Cadmium	1.93	0.200	"	2.00		96.6	80-120			
Copper	42.6	0.400	"	40.0		106	80-120			
Lead	19.2	0.200	"	20.0		96.0	80-120			
Nickel	41.8	0.400	"	40.0		104	80-120			
Silver	1.97	0.0200	"	2.00		98.7	80-120			
Zinc	42.0	0.400	"	40.0		105	80-120			
Selenium	4.17	0.260	"	4.00		104	80-120			
Duplicate (BHC1046-DUP1)		**Source: 2402131-21**		Prepared: 03/28/24 Analyzed: 04/05/24						
Arsenic	1.53	0.200	mg/kg dry		1.49			2.57	20	
Barium	60.6	0.400	"		54.4			10.8	20	
Cadmium	0.169	0.200	"		0.153			9.74	20	
Copper	4.53	0.400	"		4.39			3.14	20	
Lead	5.74	0.200	"		5.73			0.237	20	
Nickel	3.28	0.400	"		3.04			7.60	20	
Silver	0.0458	0.0200	"		0.0404			12.4	20	
Zinc	14.7	0.400	"		13.4			8.96	20	
Selenium	ND	0.260	"		ND				20	

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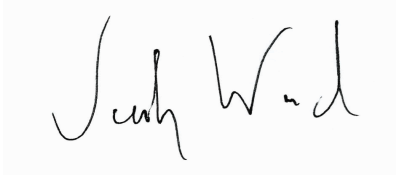

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Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - UNI UPR C 25-06 Flowline Project Number: UWRWE-A2397-ABN Project Manager: Jacob Whritenour	**Reported:** 04/08/24 13:20

Total Metals by EPA 6020B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHC1046 - EPA 3050B										
Matrix Spike (BHC1046-MS1)	**Source: 2402131-21**			Prepared: 03/28/24 Analyzed: 04/05/24						
Arsenic	39.7	0.200	mg/kg dry	41.2	1.49	92.6	75-125			
Barium	106	0.400	"	41.2	54.4	125	75-125			
Cadmium	2.17	0.200	"	2.06	0.153	97.6	75-125			
Copper	33.0	0.400	"	41.2	4.39	69.3	75-125			QM-05
Lead	25.3	0.200	"	20.6	5.73	95.1	75-125			
Nickel	31.6	0.400	"	41.2	3.04	69.3	75-125			QM-05
Silver	1.99	0.0200	"	2.06	0.0404	94.6	75-125			
Zinc	46.1	0.400	"	41.2	13.4	79.3	75-125			
Selenium	3.50	0.260	"	4.12	ND	84.8	75-125			
Matrix Spike Dup (BHC1046-MSD1)	**Source: 2402131-21**			Prepared: 03/28/24 Analyzed: 04/05/24						
Arsenic	40.0	0.200	mg/kg dry	41.2	1.49	93.3	75-125	0.656	25	
Barium	106	0.400	"	41.2	54.4	125	75-125	0.205	25	
Cadmium	2.18	0.200	"	2.06	0.153	98.2	75-125	0.570	25	
Copper	32.2	0.400	"	41.2	4.39	67.5	75-125	2.29	25	QM-05
Lead	25.2	0.200	"	20.6	5.73	94.4	75-125	0.544	25	
Nickel	31.0	0.400	"	41.2	3.04	67.7	75-125	2.12	25	QM-05
Silver	1.97	0.0200	"	2.06	0.0404	93.6	75-125	1.04	25	
Zinc	43.0	0.400	"	41.2	13.4	71.7	75-125	7.05	25	QM-05
Selenium	3.44	0.260	"	4.12	ND	83.4	75-125	1.57	25	

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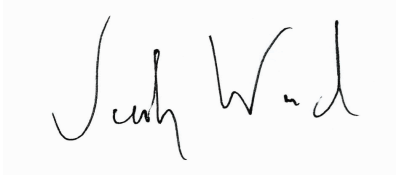
Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - UNI UPR C 25-06 Flowline Project Number: UWRWE-A2397-ABN Project Manager: Jacob Whritenour	**Reported:** 04/08/24 13:20

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

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHB0503 - General Preparation										
Blank (BHB0503-BLK1)				Prepared: 02/15/24 Analyzed: 02/20/24						
Calcium	ND	0.0500	mg/L wet							
Magnesium	ND	0.0500	"							
Sodium	ND	0.0500	"							
LCS (BHB0503-BS1)				Prepared: 02/15/24 Analyzed: 02/20/24						
Calcium	6.37	0.0500	mg/L wet	5.00		127	70-130			
Magnesium	5.72	0.0500	"	5.00		114	70-130			
Sodium	6.29	0.0500	"	5.00		126	70-130			



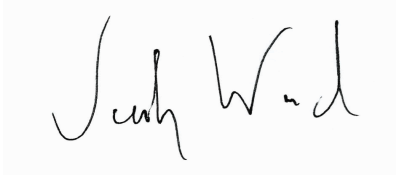
S2

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - UNI UPR C 25-06 Flowline Project Number: UWRWE-A2397-ABN Project Manager: Jacob Whritenour	**Reported:** 04/08/24 13:20

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

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHB0718 - General Preparation										
Duplicate (BHB0718-DUP1)		**Source: 2402221-01**		Prepared & Analyzed: 02/22/24						
% Solids	95.3		%		96.1			0.859	20	



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Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - UNI UPR C 25-06 Flowline Project Number: UWRWE-A2397-ABN Project Manager: Jacob Whritenour	**Reported:** 04/08/24 13:20

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHB0540 - General Preparation										
Blank (BHB0540-BLK1)				Prepared: 02/16/24 Analyzed: 02/20/24						
Specific Conductance (EC)	ND	0.0100	mmhos/cm							
LCS (BHB0540-BS1)				Prepared: 02/16/24 Analyzed: 02/20/24						
Specific Conductance (EC)	0.153	0.0100	mmhos/cm	0.150		102	95-105			
Duplicate (BHB0540-DUP1)	**Source: 2402221-01**			Prepared: 02/16/24 Analyzed: 02/20/24						
Specific Conductance (EC)	0.528	0.0100	mmhos/cm		0.531			0.699	20	

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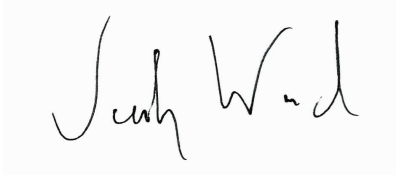
Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - UNI UPR C 25-06 Flowline Project Number: UWRWE-A2397-ABN Project Manager: Jacob Whritenour	**Reported:** 04/08/24 13:20

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

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHB0539 - General Preparation										
LCS (BHB0539-BS1)				Prepared: 02/16/24 Analyzed: 02/20/24						
pH	9.29		pH Units	9.18		101	95-105			
Duplicate (BHB0539-DUP1)		**Source: 2402175-01**		Prepared: 02/16/24 Analyzed: 02/20/24						
pH	8.31		pH Units		8.35			0.480	20	



Division of Environmental Testing
2115 N Scranton St Suite 3040A
Aurora, CO 80045
800-440-5184

March 16, 2024

4653 Table Mountain Drive
Golden, CO 80403
303-277-9310
reports@s2scientific.com

Project Manager :	Mikayla Axtell
Project Name :	2402221
Project Number :	N/A

Attached are the analytical results for 2402221 N/A received by Elevation Diagnostics, Division of Environmental Testing on February 21, 2024. This is associated with Elevation's number AA05174 .

The results were analyzed under the guidelines of various methods. These methods are identified in the report as follows: "SW" is referring to the EPA's SW-846 Compendium; "EPA" is referring to 40 CFR part 136; "HACH" is referring to a method which was validated by HACH®; "SM" is referring to a revision of the Standard Methods For the Examination of Water and Wastewater; and "ASTM" is referring to the standard test method set forth by ASTM International.

The analytical results in this report apply specifically to the samples listed in the attached Chain of Custody. This report may only be duplicated in full.

Any deviations to sample integrity, method specifications, or Elevation Diagnostics's standard operating procedures are documented in the report below.

Please contact us for any questions or comments concerning the content of this report.

Thank you,

Elevation Diagnostics, Division of Environmental Testing

Kristen Reichel
Laboratory Director
CSO,CCO

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

Lab ID	Page of

	Send Data To:	Send Invoice To:
Client: Summit Scientific	Project Manager: Mikayla Axtell	Company:
Address:	E-Mail: reports@s2scientific.com	Project Name/Location:
City/State/Zip:		AFE#:
Phone:	Project Name: 2402221	PO/Billing Codes:
Sampler Name:	Project Number:	Contact:

				Preservative				Matrix				Analysis Requested								
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other ___	Water	Soil	Air-Canister #	Other ___	915 Metals							Special Instructions
1	FL01-D@3'	2/12/24	14:06	1						X			X							
2	FL01-E@4'	2/12/24	14:18	1						X			X							
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				

AA091741 AA091751

Relinquished by:	Date/Time:	Received by:	Date/Time:
[signature]	22124		
Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:

TAT Business Days	
Same Day	
1 Day	
2 Days	
3 Days	
Standard	X

Field DO	
Field EC	
Field ORP	
Field pH	
Field Temp.	
Field Turb.	

Notes:

Temp: 23.8 C
Corrected Temp: 25.8 C
Thermometer: EDXEQ238
Sample Intact
pH Check: No
2024-02-21-023

Temperature Upon Receipt: 9.2 Corrected Temperature 0 IR gun #: 1 HNO3 lot #:

Division of Environmental Testing
2115 N Scranton St Suite 3040A
Aurora, CO 80045
800-440-5184

FINAL RESULTS REPORT

Report Date : 3/16/2024
Report Time : 16:36

REPORT TO
4653 Table Mountain Drive **Golden, CO 80403** **303-277-9310** **reports@s2scientific.com**

Project Manager : Mikayla Axtell
Project Name : 2402221
Project Number : N/A

Sample ID	Customer ID	Analyte Name Analysis Start	Dilution	Result	Units	Reporting Limit	Method Reference
AA05174-1	FL01-D@3' Collected : 02/12/2024 14:06						
		Chromium Vl, Soil 03/04/2024 11:37		<0.080	mg/kg	0.080	EPA 3060A & EPA 7199
AA05175-1	FL01-E@4' Collected : 02/12/2024 02:18						
		Chromium Vl, Soil 03/04/2024 11:37		<0.080	mg/kg	0.080	EPA 3060A & EPA 7199

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Aurora, CO 80045
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FINAL RESULTS REPORT

Report Date : 3/16/2024
Report Time : 16:36

REPORT TO
4653 Table Mountain Drive **Golden, CO 80403** **303-277-9310** **reports@s2scientific.com**

Project Manager : Mikayla Axtell
Project Name : 2402221
Project Number : N/A

Sample ID	Customer ID	Analyte Name Analysis Start	Dilution	Result	Units	Reporting Limit	Method Reference

QC Report

CHROM_VI_SOIL-2128

Analyte		Result	Reporting Limit	Units	Spike Level	Source Result	%Rec	% REC Limits	RPD	RPD Limit
DUP	AA05398	<0.080	0.001	mg/kg		<0.080				
DUP	AA05612	<0.080	0.080	mg/kg		<0.080				
MB	AA05979	0.539		ppb						
LCS	AA05981	39.193		ppb	40		97.982			
LCS	AA05982	39.449		ppb	40		98.622			

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800-440-5184

FINAL RESULTS REPORT

Report Date : 3/16/2024
Report Time : 16:36

REPORT TO
4653 Table Mountain Drive **Golden, CO 80403** **303-277-9310** **reports@s2scientific.com**

Project Manager : Mikayla Axtell
Project Name : 2402221
Project Number : N/A

Sample ID	Customer ID	Analyte Name Analysis Start	Dilution	Result	Units	Reporting Limit	Method Reference

QC Report

METALS_S-2134

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%Rec	% REC Limits	RPD	RPD Limit
AA05398									
Arsenic									
DUP	1.363	25.000	mg/kg		1.533			11.740	0 - 15
Matrix Spike	9.940		mg/kg	10.000	1.533	84.070			
Barium									
DUP	31.296	25.000	mg/kg		28.895			7.9779	0 - 15
Matrix Spike	36.956		mg/kg	10.000	28.895	80.610			
Cadmium									
DUP	0.038	1.000	mg/kg		0.037			2.6667	0 - 15
Matrix Spike	8.756		mg/kg	10.000	0.037	87.190			
Copper									
DUP	3.752	25.000	mg/kg		4.229			11.953	0 - 15
Matrix Spike	12.756		mg/kg	10.000	4.229	85.270			
Lead									
DUP	2.642	25.000	mg/kg		2.667			0.94180	0 - 15
Matrix Spike	11.573		mg/kg	10.000	2.667	89.060			
Nickel									
DUP	2.240	25.000	mg/kg		2.160			3.6364	0 - 15
Matrix Spike	11.065		mg/kg	10.000	2.160	89.050			
Selenium									
DUP	1.191	25.000	mg/kg		1.144			4.0257	0 - 15
Matrix Spike	9.811		mg/kg	10.000	1.144	86.670			
Silver									
DUP	<0.250	250.000	mg/kg		<0.250				
Matrix Spike	8.095		mg/kg	10.000	<0.250	80.950			

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Aurora, CO 80045
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FINAL RESULTS REPORT

Report Date : 3/16/2024
Report Time : 16:36

REPORT TO
4653 Table Mountain Drive **Golden, CO 80403** **303-277-9310** **reports@s2scientific.com**

Project Manager : Mikayla Axtell
Project Name : 2402221
Project Number : N/A

Sample ID	Customer ID	Analyte Name Analysis Start	Dilution	Result	Units	Reporting Limit	Method Reference
Zinc							
DUP	10.929	25.000 mg/kg		9.841		10.477	0 - 15
Matrix Spike	19.015	mg/kg	10.000	9.841	91.740		
AA06062							
Arsenic							
MB	0.202	µg/kg					
Barium							
MB	0.053	µg/kg					
Cadmium							
MB	0.058	µg/kg					
Copper							
MB	-1.317	µg/kg					
Lead							
MB	0.114	µg/kg					
Nickel							
MB	0.063	µg/kg					
Selenium							
MB	0.249	µg/kg					
Silver							
MB	3.153	µg/kg					
Zinc							
MB	0.098	µg/kg					
AA06064							
Arsenic							
LCS	85.878	µg/kg	90		95.420	80 - 120	
Barium							
LCS	89.977	µg/kg	90		99.974	80 - 120	
Cadmium							
LCS	89.412	µg/kg	90		99.347	80 - 120	
Copper							

Division of Environmental Testing
2115 N Scranton St Suite 3040A
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800-440-5184

FINAL RESULTS REPORT

Report Date : 3/16/2024
Report Time : 16:36

REPORT TO
4653 Table Mountain Drive **Golden, CO 80403** **303-277-9310** **reports@s2scientific.com**

Project Manager : Mikayla Axtell
Project Name : 2402221
Project Number : N/A

Sample ID	Customer ID	Analyte Name Analysis Start	Dilution	Result	Units	Reporting Limit	Method Reference
LCS	90.082	µg/kg	90	100.09	80 - 120		
Lead							
LCS	90.632	µg/kg	90	100.70	80 - 120		
Nickel							
LCS	89.340	µg/kg	90	99.267	80 - 120		
Selenium							
LCS	90.070	µg/kg	90	100.08	80 - 120		
Silver							
LCS	101.289	µg/kg	90	112.54	80 - 120		
Zinc							
LCS	89.590	µg/kg	90	99.544	80 - 120		
AA06065							
Arsenic							
LCS	78.106	µg/kg	90	86.784	80 - 120		
Barium							
LCS	80.802	µg/kg	90	89.780	80 - 120		
Cadmium							
LCS	81.417	µg/kg	90	90.463	80 - 120		
Copper							
LCS	84.373	µg/kg	90	93.748	80 - 120		
Lead							
LCS	89.462	µg/kg	90	99.402	80 - 120		
Nickel							
LCS	81.812	µg/kg	90	90.902	80 - 120		
Selenium							
LCS	78.846	µg/kg	90	87.607	80 - 120		
Silver							
LCS	101.383	µg/kg	90	112.65	80 - 120		
Zinc							
LCS	80.312	µg/kg	90	89.236	80 - 120		

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Project Manager : Mikayla Axtell
Project Name : 2402221
Project Number : N/A

Sample ID	Customer ID	Analyte Name Analysis Start	Dilution	Result	Units	Reporting Limit	Method Reference

Qualifier	Explanation
H1	Sample received outside of regulatory holding time.
H2	Sample analyzed outside of regulatory holding time due to a laboratory error.
P1	Sample received outside temperature requirements, 0-6°C.
P2	Sample received unpreserved.
P3	Broken or leaking sample container.
P4	Sample improperly collected
P5	Sample improperly preserved
B	The same analyte is found in the associated blank
B1	Blank failed high, indicating possible high bias in sample results.
B2	Blank failed low, indicating possible low bias in sample results.
MS	Matrix Spike / Matrix Spike Duplicate recovery and/or RPD limit exceeded, indicating potential matrix interference.
QC	Associated batch quality control was outside the acceptable range
D1	Duplicate RPD limit exceeded due to low sample concentration.
D2	Duplicate RPD limit exceeded due to matrix interference.
S	Surrogate recovery failed, indicating potential matrix interference.
RL1	Reporting limits raised due to matrix interference.
RL2	Reporting limits raised due to limited sample.
U	Sample result less than method detection limit.
J	Sample result less than reporting limit but higher than method detection limit.
EST	The concentration indicated has been estimated due to high analyte content
E	Electronic loss or corruption of data.
I	Subcontracted sample

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - UNI UPR C 25-06 Flowline Project Number: UWRWE-A2397-ABN Project Manager: Jacob Whritenour	**Reported:** 04/08/24 13:20

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
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