

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

June 17, 2025

Eric Vonde

Tasman Geosciences

4725 Independence St.

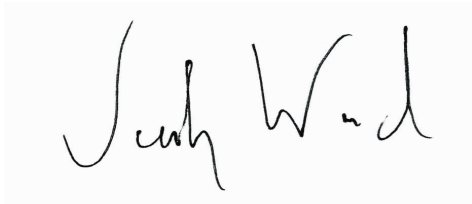
Wheat Ridge, CO 80033

RE: Noble - Mile High Sheep 08-32

Work Order #2503367

Enclosed are the results of analyses for samples received by Summit Scientific on 03/26/25 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 distinct "W".

Jacob Wood For Paul Shrewsbury

President

**Please Note - Out-of-Hold Results Included:**

The 8260B GBTEXN 915 analyses were analyzed outside of allotted holding times due to delays at Summit Scientific.



Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Mile High Sheep 08-32

Project Number: UWRWE-A3562-ABN  
Project Manager: Eric Vonde

**Reported:**  
06/17/25 16:29

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL01R-W@4'	2503367-01	Soil	03/26/25 11:52	03/26/25 18:00

### Case Narrative

The 8260B GBTEXN 915 analyses were completed outside of allotted holding times due to delays at Summit Scientific.

This report has been revised to include the proper hold-time qualifiers.

This is a revision of the report originally sent on 05/14/2025 at 08:02 MT.

Summit Scientific

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

Lab ID	Page 1 of 1
2503367	

<b>Send Data To:</b>		<b>Send Invoice To:</b>
Client: Tasman, Inc.	Project Manager: Eric Vonde	Company: Noble
Address: 4725 Independence St	E-Mail: tas-chevron-5@tasman-geo.com	Project Name/Location: Mile High Sheep 08-32
City/State/Zip: Wheat Ridge / CO / 80033	RBUEUF27@chevron.com, Danpeterson@chevron.com	AFE#: UWRWE-A3562-ABU
Phone: <del>918-214-6890</del> 303-487-1228	Project Name: Mile High Sheep 08-32	PO/Billing Codes:
Sampler Name: Wyatt Wadleigh, E. Card	Project Number:	Contact: M-te Marbya

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested							Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	Metals - 915	VOC - 915	TPH - 915	PAH - 915	SAR, EC, pH	Boron - HWS		HOLD
1	FLOIR-W@4	3/26/25	1152	2			X			X			X	X	X	X	X	X		SAR, EC, pH by saturated paste
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				

Relinquished by: <i>M. E. Card</i>	Date/Time: 3/26/25 1500	Received by: Tasman Lockbox	Date/T: 3/26/25 1500	TAT Business Days	Field DO	Notes:
Relinquished by: <i>Tasman Lockbox</i>	Date/Time: 3/26/25 1800	Received by: <i>[Signature]</i>	Date/Time: 3/26/25 1800	Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
				Standard	X Field Turb.	
Temperature Upon Receipt: 2.4	Corrected Temperature: 0	IR gun #: 1	HNO3 lot #:			

# S<sub>2</sub>

S2 Work Order# 2503367

## Sample Receipt Checklist

Client: Taxman Client Project ID: mile high Sheep 08-32Received Via: H.D./F.U./FedEx/UPS/USPS/Other  Airbill #: \_\_\_\_\_Matrix (Circle all that apply) Air/Soil/Water/Other  Temp (°C) 2.4 Thermometer # 1Bottle ware (Circle all that apply) Glass Jar/Voa/Amber/Poly/Other 

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

Control Form #: SRC-001

SN  
Custodian Printed Name3/26/25  
Date/Time



Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Mile High Sheep 08-32  
Project Number: UWRWE-A3562-ABN  
Project Manager: Eric Vonde

**Reported:**  
06/17/25 16:29

**FL01R-W@4'**  
**2503367-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **03/26/25 11:52**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BID0194	04/03/25	05/02/25	EPA 8260B	I-02
Toluene	ND	0.0050		"	"	"	"	"	"	I-02
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	I-02
Xylenes (total)	ND	0.010		"	"	"	"	"	"	I-02
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	I-02
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	I-02
Naphthalene	ND	0.0038		"	"	"	"	"	"	I-02
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	I-02

Date Sampled: **03/26/25 11:52**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0356	88.9 %		50-150		"	"	"	"	I-02
Surrogate: Toluene-d8	0.0414	103 %		50-150		"	"	"	"	I-02
Surrogate: 4-Bromofluorobenzene	0.0391	97.8 %		50-150		"	"	"	"	I-02

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **03/26/25 11:52**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BID0197	04/03/25	05/12/25	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **03/26/25 11:52**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	6.60	52.8 %		50-140		"	"	"	"	

**PAH by EPA Method 8270E SIM**

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Project Manager: Eric Vonde

**Reported:**  
06/17/25 16:29

**FL01R-W@4'**  
**2503367-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270E SIM**

Date Sampled: **03/26/25 11:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	0.0137	0.00500	mg/kg	1	BIC1884	03/31/25	04/28/25	EPA 8270E SIM	
Anthracene	0.0328	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	0.0443	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	0.0291	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	0.0465	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	0.0152	0.00500	"	"	"	"	"	"	
Chrysene	0.0395	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	0.141	0.00500	"	"	"	"	"	"	
Fluorene	0.0177	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	0.0165	0.00500	"	"	"	"	"	"	
Pyrene	0.104	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/26/25 11:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0180	54.1 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0252	75.6 %	40-140		"	"	"	"	

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

Date Sampled: **03/26/25 11:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L dry	1	BIC1627	03/27/25	04/02/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **03/26/25 11:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.51	0.200	mg/kg dry	1	BID0165	04/03/25	04/29/25	EPA 6020B	

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4725 Independence St.  
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Project: Noble - Mile High Sheep 08-32  
Project Number: UWRWE-A3562-ABN  
Project Manager: Eric Vonde

**Reported:**  
06/17/25 16:29

**FL01R-W@4'**  
**2503367-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	50.9	0.400	mg/kg dry	1	BID0165	04/03/25	04/29/25	EPA 6020B	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	4.02	0.400	"	"	"	"	"	"	
Lead	5.20	0.200	"	"	"	"	"	"	
Nickel	4.14	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	19.2	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **03/26/25 11:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BID0082	04/02/25	04/02/25	EPA 7196A	

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

Date Sampled: **03/26/25 11:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	114	0.0500	mg/L dry	1	BID0865	04/15/25	05/04/25	EPA 6020B	
Magnesium	22.2	0.0500	"	"	"	"	"	"	
Sodium	22.7	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **03/26/25 11:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.509	0.00100	units	1	BIE0190	05/04/25	05/04/25	Calculation	

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

Date Sampled: **03/26/25 11:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 4725 Independence St.  
 Wheat Ridge CO, 80033

Project: Noble - Mile High Sheep 08-32  
 Project Number: UWRWE-A3562-ABN  
 Project Manager: Eric Vonde

**Reported:**  
 06/17/25 16:29

**FL01R-W@4'**  
**2503367-01 (Soil)**

**Summit Scientific**

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

% Solids	81.3	%	1	BID0078	04/02/25	04/02/25	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **03/26/25 11:52**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.651	0.0100	mmhos/cm	1	BID0866	04/15/25	04/21/25	EPA 120.1	

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

Date Sampled: **03/26/25 11:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.37		pH Units	1	BID0867	04/15/25	04/21/25	EPA 9045D	

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Project Manager: Eric Vonde

**Reported:**  
06/17/25 16:29

### 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 BID0194 - EPA 5030 Soil MS

##### Blank (BID0194-BLK1)

Prepared: 04/03/25 Analyzed: 05/01/25

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0378		"	0.0400		94.4	50-150			
Surrogate: Toluene-d8	0.0404		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0399		"	0.0400		99.7	50-150			

##### LCS (BID0194-BS1)

Prepared: 04/03/25 Analyzed: 05/01/25

Benzene	0.0916	0.0020	mg/kg	0.100		91.6	70-130			
Toluene	0.0935	0.0050	"	0.100		93.5	70-130			
Ethylbenzene	0.0916	0.0050	"	0.100		91.6	70-130			
m,p-Xylene	0.182	0.010	"	0.200		90.8	70-130			
o-Xylene	0.0896	0.0050	"	0.100		89.6	70-130			
1,2,4-Trimethylbenzene	0.0868	0.0050	"	0.100		86.8	70-130			
1,3,5-Trimethylbenzene	0.0852	0.0050	"	0.100		85.2	70-130			
Naphthalene	0.0854	0.0038	"	0.100		85.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0385		"	0.0400		96.2	50-150			
Surrogate: Toluene-d8	0.0400		"	0.0400		99.9	50-150			
Surrogate: 4-Bromofluorobenzene	0.0403		"	0.0400		101	50-150			

##### Matrix Spike (BID0194-MS1)

Source: 2503348-01

Prepared: 04/03/25 Analyzed: 05/01/25

Benzene	0.0937	0.0020	mg/kg	0.100	ND	93.7	70-130			
Toluene	0.0946	0.0050	"	0.100	ND	94.6	70-130			
Ethylbenzene	0.0904	0.0050	"	0.100	ND	90.4	70-130			
m,p-Xylene	0.178	0.010	"	0.200	ND	89.0	70-130			
o-Xylene	0.0847	0.0050	"	0.100	ND	84.7	70-130			
1,2,4-Trimethylbenzene	0.0770	0.0050	"	0.100	ND	77.0	70-130			
1,3,5-Trimethylbenzene	0.0771	0.0050	"	0.100	ND	77.1	70-130			
Naphthalene	0.0694	0.0038	"	0.100	ND	69.4	70-130			QM-05
Surrogate: 1,2-Dichloroethane-d4	0.0365		"	0.0400		91.3	50-150			
Surrogate: Toluene-d8	0.0400		"	0.0400		100	50-150			
Surrogate: 4-Bromofluorobenzene	0.0388		"	0.0400		96.9	50-150			

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Wheat Ridge CO, 80033

Project: Noble - Mile High Sheep 08-32  
Project Number: UWRWE-A3562-ABN  
Project Manager: Eric Vonde

**Reported:**  
06/17/25 16:29

**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 BID0194 - EPA 5030 Soil MS**

<b>Matrix Spike Dup (BID0194-MSD1)</b>	<b>Source: 2503348-01</b>			<b>Prepared: 04/03/25 Analyzed: 05/01/25</b>						
Benzene	0.0944	0.0020	mg/kg	0.100	ND	94.4	70-130	0.766	30	
Toluene	0.0949	0.0050	"	0.100	ND	94.9	70-130	0.380	30	
Ethylbenzene	0.0916	0.0050	"	0.100	ND	91.6	70-130	1.38	30	
m,p-Xylene	0.181	0.010	"	0.200	ND	90.6	70-130	1.72	30	
o-Xylene	0.0867	0.0050	"	0.100	ND	86.7	70-130	2.31	30	
1,2,4-Trimethylbenzene	0.0773	0.0050	"	0.100	ND	77.3	70-130	0.506	30	
1,3,5-Trimethylbenzene	0.0774	0.0050	"	0.100	ND	77.4	70-130	0.311	30	
Naphthalene	0.0701	0.0038	"	0.100	ND	70.1	70-130	0.989	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0370</i>		<i>"</i>	<i>0.0400</i>		<i>92.6</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0403</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0397</i>		<i>"</i>	<i>0.0400</i>		<i>99.2</i>	<i>50-150</i>			

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Project: Noble - Mile High Sheep 08-32  
Project Number: UWRWE-A3562-ABN  
Project Manager: Eric Vonde

**Reported:**  
06/17/25 16:29

**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 BID0197 - EPA 3550A**

**Blank (BID0197-BLK1)**

Prepared: 04/03/25 Analyzed: 05/09/25

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	12.8		"	12.5		102		50-140			

**LCS (BID0197-BS1)**

Prepared: 04/03/25 Analyzed: 05/09/25

C10-C28 (DRO)	486	50	mg/kg	500		97.1		50-140			
Surrogate: <i>o</i> -Terphenyl	12.7		"	12.5		102		50-140			

**Matrix Spike (BID0197-MS1)**

Source: 2503348-01

Prepared: 04/03/25 Analyzed: 05/09/25

C10-C28 (DRO)	493	50	mg/kg	500	32.2	92.1		50-140			
Surrogate: <i>o</i> -Terphenyl	12.8		"	12.5		102		50-140			

**Matrix Spike Dup (BID0197-MSD1)**

Source: 2503348-01

Prepared: 04/03/25 Analyzed: 05/09/25

C10-C28 (DRO)	463	50	mg/kg	500	32.2	86.2		50-140	6.12	20	
Surrogate: <i>o</i> -Terphenyl	12.3		"	12.5		98.4		50-140			

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**PAH by EPA Method 8270E SIM - Quality Control**  
**Summit Scientific**

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

**Batch BIC1884 - EPA 5030 Soil MS**

**Blank (BIC1884-BLK1)**

Prepared: 03/31/25 Analyzed: 04/28/25

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	0.0207		"	0.0333		62.1	40-140			
<i>Surrogate: Fluoranthene-d10</i>	0.0258		"	0.0333		77.5	40-140			

**LCS (BIC1884-BS1)**

Prepared: 03/31/25 Analyzed: 04/28/25

Acenaphthene	0.0263	0.00500	mg/kg	0.0333		78.8	40-140			
Anthracene	0.0251	0.00500	"	0.0333		75.4	40-140			
Benzo (a) anthracene	0.0268	0.00500	"	0.0333		80.5	40-140			
Benzo (a) pyrene	0.0262	0.00500	"	0.0333		78.7	40-140			
Benzo (b) fluoranthene	0.0265	0.00500	"	0.0333		79.5	40-140			
Benzo (k) fluoranthene	0.0263	0.00500	"	0.0333		78.9	40-140			
Chrysene	0.0260	0.00500	"	0.0333		78.0	40-140			
Dibenz (a,h) anthracene	0.0233	0.00500	"	0.0333		69.8	40-140			
Fluoranthene	0.0260	0.00500	"	0.0333		77.9	40-140			
Fluorene	0.0260	0.00500	"	0.0333		78.1	40-140			
Indeno (1,2,3-cd) pyrene	0.0240	0.00500	"	0.0333		71.9	40-140			
Pyrene	0.0281	0.00500	"	0.0333		84.2	40-140			
1-Methylnaphthalene	0.0218	0.00500	"	0.0333		65.5	40-140			
2-Methylnaphthalene	0.0247	0.00500	"	0.0333		74.2	40-140			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	0.0234		"	0.0333		70.3	40-140			
<i>Surrogate: Fluoranthene-d10</i>	0.0290		"	0.0333		87.0	40-140			

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Mile High Sheep 08-32

Project Number: UWRWE-A3562-ABN  
Project Manager: Eric Vonde

**Reported:**  
06/17/25 16:29

**PAH by EPA Method 8270E SIM - Quality Control**

**Summit Scientific**

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

**Batch BIC1884 - EPA 5030 Soil MS**

<b>Matrix Spike (BIC1884-MS1)</b>		<b>Source: 2503360-01</b>			Prepared: 03/31/25		Analyzed: 04/28/25	
Acenaphthene	0.0208	0.00500	mg/kg	0.0333	ND	62.4	40-140	
Anthracene	0.0199	0.00500	"	0.0333	ND	59.7	40-140	
Benzo (a) anthracene	0.0213	0.00500	"	0.0333	ND	63.9	40-140	
Benzo (a) pyrene	0.0201	0.00500	"	0.0333	ND	60.2	40-140	
Benzo (b) fluoranthene	0.0210	0.00500	"	0.0333	ND	62.9	40-140	
Benzo (k) fluoranthene	0.0204	0.00500	"	0.0333	ND	61.1	40-140	
Chrysene	0.0214	0.00500	"	0.0333	ND	64.3	40-140	
Dibenz (a,h) anthracene	0.0171	0.00500	"	0.0333	ND	51.3	40-140	
Fluoranthene	0.0198	0.00500	"	0.0333	ND	59.4	40-140	
Fluorene	0.0235	0.00500	"	0.0333	ND	70.5	40-140	
Indeno (1,2,3-cd) pyrene	0.0176	0.00500	"	0.0333	ND	52.8	40-140	
Pyrene	0.0221	0.00500	"	0.0333	ND	66.3	40-140	
1-Methylnaphthalene	0.0164	0.00500	"	0.0333	ND	49.3	40-140	
2-Methylnaphthalene	0.0184	0.00500	"	0.0333	ND	55.3	40-140	
Surrogate: 2-Methylnaphthalene-d10	0.0184		"	0.0333		55.2	40-140	
Surrogate: Fluoranthene-d10	0.0220		"	0.0333		66.0	40-140	

<b>Matrix Spike Dup (BIC1884-MSD1)</b>		<b>Source: 2503360-01</b>			Prepared: 03/31/25		Analyzed: 04/28/25	
Acenaphthene	0.0184	0.00500	mg/kg	0.0333	ND	55.2	40-140	12.3 30
Anthracene	0.0177	0.00500	"	0.0333	ND	53.0	40-140	11.9 30
Benzo (a) anthracene	0.0184	0.00500	"	0.0333	ND	55.2	40-140	14.6 30
Benzo (a) pyrene	0.0177	0.00500	"	0.0333	ND	53.2	40-140	12.3 30
Benzo (b) fluoranthene	0.0186	0.00500	"	0.0333	ND	55.7	40-140	12.2 30
Benzo (k) fluoranthene	0.0176	0.00500	"	0.0333	ND	52.8	40-140	14.7 30
Chrysene	0.0187	0.00500	"	0.0333	ND	56.1	40-140	13.6 30
Dibenz (a,h) anthracene	0.0133	0.00500	"	0.0333	ND	40.0	40-140	24.7 30
Fluoranthene	0.0179	0.00500	"	0.0333	ND	53.6	40-140	10.3 30
Fluorene	0.0210	0.00500	"	0.0333	ND	63.1	40-140	11.0 30
Indeno (1,2,3-cd) pyrene	0.0140	0.00500	"	0.0333	ND	41.9	40-140	23.2 30
Pyrene	0.0189	0.00500	"	0.0333	ND	56.8	40-140	15.5 30
1-Methylnaphthalene	0.0145	0.00500	"	0.0333	ND	43.6	40-140	12.4 30
2-Methylnaphthalene	0.0162	0.00500	"	0.0333	ND	48.7	40-140	12.7 30
Surrogate: 2-Methylnaphthalene-d10	0.0157		"	0.0333		47.0	40-140	
Surrogate: Fluoranthene-d10	0.0197		"	0.0333		59.2	40-140	

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Tasman Geosciences  
 4725 Independence St.  
 Wheat Ridge CO, 80033

Project: Noble - Mile High Sheep 08-32  
 Project Number: UWRWE-A3562-ABN  
 Project Manager: Eric Vonde

**Reported:**  
 06/17/25 16:29

**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 BIC1627 - EPA 3050B**

<b>Blank (BIC1627-BLK1)</b>										
					Prepared: 03/27/25 Analyzed: 04/02/25					
Boron	ND	2.00	mg/L wet							
<b>LCS (BIC1627-BS1)</b>										
					Prepared: 03/27/25 Analyzed: 04/02/25					
Boron	4.93	2.00	mg/L wet	5.00		98.7	80-120			
<b>Duplicate (BIC1627-DUP1)</b>										
					Source: 2503357-01 Prepared: 03/27/25 Analyzed: 04/02/25					
Boron	0.122	2.00	mg/L dry		0.160			27.2	20	QR-01
<b>Matrix Spike (BIC1627-MS1)</b>										
					Source: 2503357-01 Prepared: 03/27/25 Analyzed: 04/02/25					
Boron	6.20	2.00	mg/L dry	6.06	0.160	99.6	75-125			
<b>Matrix Spike Dup (BIC1627-MSD1)</b>										
					Source: 2503357-01 Prepared: 03/27/25 Analyzed: 04/02/25					
Boron	6.29	2.00	mg/L dry	6.06	0.160	101	75-125	1.59	25	

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Mile High Sheep 08-32  
Project Number: UWRWE-A3562-ABN  
Project Manager: Eric Vonde

**Reported:**  
06/17/25 16:29

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

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

**Batch BID0165 - EPA 3050B**

**Blank (BID0165-BLK1)**

Prepared: 04/03/25 Analyzed: 05/01/25

Arsenic	ND	0.200	mg/kg wet						
Barium	ND	0.400	"						
Cadmium	ND	0.200	"						
Copper	ND	0.400	"						
Lead	ND	0.200	"						
Nickel	ND	0.400	"						
Silver	ND	0.0200	"						
Zinc	ND	0.400	"						
Selenium	ND	0.260	"						

**LCS (BID0165-BS1)**

Prepared: 04/03/25 Analyzed: 04/29/25

Arsenic	41.6	0.200	mg/kg wet	40.7	102	80-120
Barium	41.1	0.400	"	40.7	101	80-120
Cadmium	1.97	0.200	"	2.03	96.9	80-120
Copper	42.9	0.400	"	40.7	106	80-120
Lead	19.7	0.200	"	20.3	96.9	80-120
Nickel	42.4	0.400	"	40.7	104	80-120
Silver	2.02	0.0200	"	2.03	99.4	80-120
Zinc	40.6	0.400	"	40.7	100	80-120
Selenium	4.45	0.260	"	4.07	109	80-120

**Duplicate (BID0165-DUP1)**

Source: 2503362-10

Prepared: 04/03/25 Analyzed: 04/29/25

Arsenic	0.224	0.200	mg/kg dry	0.233	4.16	20	
Barium	20.2	0.400	"	27.2	29.3	20	QR-04
Cadmium	0.0325	0.200	"	0.0370	12.9	20	
Copper	2.85	0.400	"	3.65	24.7	20	QR-04
Lead	1.51	0.200	"	1.91	23.5	20	QR-04
Nickel	4.48	0.400	"	5.39	18.5	20	
Silver	0.0115	0.0200	"	0.0130	12.2	20	
Zinc	13.2	0.400	"	15.7	17.2	20	
Selenium	ND	0.260	"	0.212	200	20	QR-01

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Mile High Sheep 08-32

Project Number: UWRWE-A3562-ABN  
Project Manager: Eric Vonde

**Reported:**  
06/17/25 16:29

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

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

**Batch BID0165 - EPA 3050B**

<b>Matrix Spike (BID0165-MS1)</b>	<b>Source: 2503362-10</b>			<b>Prepared: 04/03/25 Analyzed: 04/29/25</b>								
Arsenic	39.5	0.200	mg/kg dry	47.3	0.233	83.0	75-125					
Barium	62.8	0.400	"	47.3	27.2	75.4	75-125					
Cadmium	2.31	0.200	"	2.36	0.0370	96.3	75-125					
Copper	42.0	0.400	"	47.3	3.65	81.1	75-125					
Lead	23.8	0.200	"	23.6	1.91	92.7	75-125					
Nickel	43.6	0.400	"	47.3	5.39	80.8	75-125					
Silver	2.29	0.0200	"	2.36	0.0130	96.4	75-125					
Zinc	50.8	0.400	"	47.3	15.7	74.4	75-125					QM-05
Selenium	5.25	0.260	"	4.73	0.212	107	75-125					

<b>Matrix Spike Dup (BID0165-MSD1)</b>	<b>Source: 2503362-10</b>			<b>Prepared: 04/03/25 Analyzed: 04/29/25</b>								
Arsenic	39.2	0.200	mg/kg dry	49.2	0.233	79.3	75-125	0.656	25			
Barium	69.3	0.400	"	49.2	27.2	85.7	75-125	9.80	25			
Cadmium	2.38	0.200	"	2.46	0.0370	95.4	75-125	3.06	25			
Copper	42.1	0.400	"	49.2	3.65	78.2	75-125	0.277	25			
Lead	24.7	0.200	"	24.6	1.91	92.8	75-125	3.78	25			
Nickel	43.4	0.400	"	49.2	5.39	77.3	75-125	0.375	25			
Silver	2.38	0.0200	"	2.46	0.0130	96.2	75-125	3.74	25			
Zinc	51.3	0.400	"	49.2	15.7	72.5	75-125	0.997	25			QM-05
Selenium	5.58	0.260	"	4.92	0.212	109	75-125	5.96	25			

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Mile High Sheep 08-32  
Project Number: UWRWE-A3562-ABN  
Project Manager: Eric Vonde

**Reported:**  
06/17/25 16:29

**Hexavalent Chromium by EPA Method 7196 - Quality Control**  
**Summit Scientific**

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

**Batch BID0082 - 3060A Mod**

**Blank (BID0082-BLK1)**

Prepared & Analyzed: 04/02/25

Chromium, Hexavalent      ND      0.30    mg/kg wet

**LCS (BID0082-BS1)**

Prepared & Analyzed: 04/02/25

Chromium, Hexavalent      24.2      0.30    mg/kg wet      25.0      96.6      80-120

**Duplicate (BID0082-DUP1)**

**Source: 2503367-01**

Prepared & Analyzed: 04/02/25

Chromium, Hexavalent      ND      0.30    mg/kg dry      ND      20

**Matrix Spike (BID0082-MS1)**

**Source: 2503367-01**

Prepared & Analyzed: 04/02/25

Chromium, Hexavalent      28.3      0.30    mg/kg dry      29.8      ND      94.8      75-125

**Matrix Spike Dup (BID0082-MSD1)**

**Source: 2503367-01**

Prepared & Analyzed: 04/02/25

Chromium, Hexavalent      29.8      0.30    mg/kg dry      30.7      ND      97.0      75-125      5.25      20

Summit Scientific

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Tasman Geosciences  
 4725 Independence St.  
 Wheat Ridge CO, 80033

Project: Noble - Mile High Sheep 08-32  
 Project Number: UWRWE-A3562-ABN  
 Project Manager: Eric Vonde

**Reported:**  
 06/17/25 16:29

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

**Summit Scientific**

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

**Batch BID0865 - General Preparation**

**Blank (BID0865-BLK1)**

Prepared: 04/15/25 Analyzed: 05/04/25

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

**LCS (BID0865-BS1)**

Prepared: 04/15/25 Analyzed: 05/04/25

Calcium	5.98	0.0500	mg/L wet	5.00	120	70-130			
Magnesium	5.19	0.0500	"	5.00	104	70-130			
Sodium	5.27	0.0500	"	5.00	105	70-130			

Summit Scientific

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Tasman Geosciences  
 4725 Independence St.  
 Wheat Ridge CO, 80033

Project: Noble - Mile High Sheep 08-32

Project Number: UWRWE-A3562-ABN  
 Project Manager: Eric Vonde

**Reported:**  
 06/17/25 16:29

**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 BID0078 - General Preparation**


**Duplicate (BID0078-DUP1)**

**Source: 2503353-01**

Prepared & Analyzed: 04/02/25

% Solids	83.5		%		84.3			1.00	20	
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Summit Scientific



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Tasman Geosciences  
 4725 Independence St.  
 Wheat Ridge CO, 80033

Project: Noble - Mile High Sheep 08-32  
 Project Number: UWRWE-A3562-ABN  
 Project Manager: Eric Vonde

**Reported:**  
 06/17/25 16:29

**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 BID0866 - General Preparation**

**Blank (BID0866-BLK1)**

Prepared: 04/15/25 Analyzed: 04/21/25

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BID0866-BS1)**

Prepared: 04/15/25 Analyzed: 04/21/25

Specific Conductance (EC) 0.150 0.0100 mmhos/cm 0.150 100 95-105

**Duplicate (BID0866-DUP1)**

Source: 2503362-11

Prepared: 04/15/25 Analyzed: 04/21/25

Specific Conductance (EC) 3.62 0.0100 mmhos/cm 3.66 1.18 20

Summit Scientific

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Tasman Geosciences  
 4725 Independence St.  
 Wheat Ridge CO, 80033

Project: Noble - Mile High Sheep 08-32

Project Number: UWRWE-A3562-ABN  
 Project Manager: Eric Vonde

**Reported:**  
 06/17/25 16:29

**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 BID0867 - General Preparation**

**LCS (BID0867-BS1)**

Prepared: 04/15/25 Analyzed: 04/21/25

pH	9.12	pH Units	9.18	99.3	95-105
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**Duplicate (BID0867-DUP1)**

Source: 2503362-11

Prepared: 04/15/25 Analyzed: 04/21/25

pH	8.19	pH Units	8.18	0.122	20
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Summit Scientific



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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Mile High Sheep 08-32

Project Number: UWRWE-A3562-ABN  
Project Manager: Eric Vonde

**Reported:**  
06/17/25 16:29

### Notes and Definitions

- QR-04 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values. Only applies to source/DUP and MS/MSD pairs.
- QR-01 Analyses are not controlled on RPD values from sample concentrations below the reporting limit. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
- I-02 Sample was prepared and/or analyzed outside of holding time.
- 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