

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

July 30, 2024

Jacob Whritenour

Tasman Geosciences

6855 W. 119th Ave.

Broomfield, CO 80020

RE: Noble - Torres USX AB 35-09

Work Order #2407304

Enclosed are the results of analyses for samples received by Summit Scientific on 07/23/24 17:47. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Natalie Tessier". The signature is fluid and cursive, with the first name being more prominent.

Natalie Tessier For Paul Shrewsbury
President



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

Project: Noble - Torres USX AB 35-09

Project Number: UWRWE-A4149-ABN
Project Manager: Jacob Whritenour

Reported:
07/30/24 09:14

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL01R-S@4'	2407304-01	Soil	07/23/24 13:00	07/23/24 17:47
FL01R-W@3'	2407304-02	Soil	07/23/24 12:15	07/23/24 17:47

Summit Scientific

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

Lab ID	Page 1 of 1
2407304	

Client: Noble/Tasman		Send Data To:		Send Invoice To:	
Address: 6855 W. 119th Ave.		Project Manager: Jake Whritenour		Company: Chevron	
City/State/Zip: Broomfield/CO/ 80020		E-Mail: Jwhritenour@tasman-geo.com		Project Name/Location: <u>Torres USX AB35-09</u>	
Phone: 832-922-0152		Project Name: <u>Torres USX AB35-09</u>		AFE#: <u>UWRWE-44149-ABV</u>	
Sampler Name: Tanner Lacy		Project Number:		PO/Billing Codes:	
				Contact: <u>Wade Firestein</u>	

				Preservative				Matrix				Analysis Requested								Special Instructions
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	VOC-915	TPH-915	PAH-915	pH,EC,SAR	Boron-915	Metals-915	HOLD	
1	<u>Floor-S@4'</u>	<u>7/23/24</u>	<u>1300</u>	<u>1</u>			<u>X</u>			<u>X</u>			<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		SAR, EC, pH by saturated paste
2	<u>Floor-W@3'</u>	<u>1</u>	<u>1215</u>	<u>1</u>			<u>1</u>			<u>1</u>			<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>		
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				

Relinquished by: <u>Tanner Lacy</u>	Date/Time: <u>7/23/24 1640</u>	Received by: <u>Tasman Lock Box</u>	Date/Time: <u>7/23/24 1640</u>	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by: <u>Tasman Lock Box</u>	Date/Time: <u>7/23/24 1747</u>	Received by: <u>[Signature]</u>	Date/Time: <u>7/23/24 1747</u>	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	<u>X</u> Field Turb.	
Temperature Upon Receipt: <u>9.0</u>		Corrected Temperature: <u>5</u>		IR gun #: <u>1</u>		HNO3 lot #: _____

S₂

Sample Receipt Checklist

S2 Work Order# 2407304Client: Nobleman Client Project ID: Forres USX AB 30-09Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐

<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 9.0 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.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	outside
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

7/23/24
Date/Time



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

Project: Noble - Torres USX AB 35-09

Project Number: UWRWE-A4149-ABN
Project Manager: Jacob Whritenour

Reported:
07/30/24 09:14

FL01R-S@4'
2407304-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/23/24 13:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHG0749	07/25/24	07/29/24	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: **07/23/24 13:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0392	97.9 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0401	100 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0405	101 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/23/24 13:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHG0750	07/25/24	07/26/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **07/23/24 13:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	7.14	57.1 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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PAH by EPA Method 8270D SIM

Date Sampled: **07/23/24 13:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BHG0669	07/24/24	07/25/24	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: **07/23/24 13:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0133	40.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0169	50.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **07/23/24 13:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHG0676	07/24/24	07/25/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **07/23/24 13:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

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Project Number: UWRWE-A4149-ABN
Project Manager: Jacob Whritenour

Reported:
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FL01R-S@4'
2407304-01 (Soil)

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Total Metals by EPA 6020B

Arsenic	1.38	0.200	mg/kg dry	1	BHG0683	07/24/24	07/25/24	EPA 6020B
Barium	44.9	0.400	"	"	"	"	"	"
Cadmium	0.256	0.200	"	"	"	"	"	"
Copper	5.52	0.400	"	"	"	"	"	"
Lead	6.83	0.200	"	"	"	"	"	"
Nickel	4.54	0.400	"	"	"	"	"	"
Silver	0.0272	0.0200	"	"	"	"	"	"
Zinc	25.6	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **07/23/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHG0688	07/24/24	07/24/24	EPA 7196A	

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

Date Sampled: **07/23/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	40.4	0.0500	mg/L dry	1	BHG0684	07/24/24	07/26/24	EPA 6020B	
Magnesium	7.44	0.0500	"	"	"	"	"	"	
Sodium	1.56	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **07/23/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0592	0.00100	units	1	BHG0841	07/29/24	07/29/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/23/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Reported:
07/30/24 09:14

FL01R-S@4'
2407304-01 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

% Solids	79.8	%	1	BHG0678	07/24/24	07/24/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/23/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.156	0.0100	mmhos/cm	1	BHG0685	07/24/24	07/26/24	EPA 120.1	

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

Date Sampled: **07/23/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.77		pH Units	1	BHG0687	07/24/24	07/26/24	EPA 9045D	

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Project Manager: Jacob Whritenour

Reported:
07/30/24 09:14

FL01R-W@3'
2407304-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/23/24 12:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHG0749	07/25/24	07/29/24	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: **07/23/24 12:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0467	117 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0396	98.9 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0391	97.6 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/23/24 12:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHG0750	07/25/24	07/26/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **07/23/24 12:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	7.25	58.0 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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PAH by EPA Method 8270D SIM

Date Sampled: **07/23/24 12:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BHG0669	07/24/24	07/25/24	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	0.00564	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: **07/23/24 12:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0134	40.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0149	44.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **07/23/24 12:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHG0676	07/24/24	07/25/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **07/23/24 12:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

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FL01R-W@3'
2407304-02 (Soil)

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Total Metals by EPA 6020B

Arsenic	1.88	0.200	mg/kg dry	1	BHG0683	07/24/24	07/25/24	EPA 6020B
Barium	44.7	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	3.30	0.400	"	"	"	"	"	"
Lead	4.43	0.200	"	"	"	"	"	"
Nickel	3.48	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	15.1	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **07/23/24 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHG0688	07/24/24	07/24/24	EPA 7196A	

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

Date Sampled: **07/23/24 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	52.8	0.0500	mg/L dry	1	BHG0684	07/24/24	07/26/24	EPA 6020B	
Magnesium	11.0	0.0500	"	"	"	"	"	"	
Sodium	19.2	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **07/23/24 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.628	0.00100	units	1	BHG0841	07/29/24	07/29/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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07/30/24 09:14

FL01R-W@3'
2407304-02 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/23/24 12:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	84.7			%	1	BHG0678	07/24/24	07/24/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/23/24 12:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.485	0.0100		mmhos/cm	1	BHG0685	07/24/24	07/26/24	EPA 120.1	

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

Date Sampled: **07/23/24 12:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.11			pH Units	1	BHG0687	07/24/24	07/26/24	EPA 9045D	

Summit Scientific

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



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

Project: Noble - Torres USX AB 35-09
Project Number: UWRWE-A4149-ABN
Project Manager: Jacob Whritenour

Reported:
07/30/24 09:14

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BHG0749 - EPA 5030 Soil MS

Blank (BHG0749-BLK1)

Prepared: 07/25/24 Analyzed: 07/28/24

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	0.0429		"	0.0400		107	50-150			
Surrogate: Toluene-d8	0.0409		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0386		"	0.0400		96.5	50-150			

LCS (BHG0749-BS1)

Prepared: 07/25/24 Analyzed: 07/28/24

Benzene	0.0844	0.0020	mg/kg	0.100		84.4	70-130			
Toluene	0.100	0.0050	"	0.100		100	70-130			
Ethylbenzene	0.0910	0.0050	"	0.100		91.0	70-130			
m,p-Xylene	0.186	0.010	"	0.200		92.8	70-130			
o-Xylene	0.0955	0.0050	"	0.100		95.5	70-130			
1,2,4-Trimethylbenzene	0.0838	0.0050	"	0.100		83.8	70-130			
1,3,5-Trimethylbenzene	0.0843	0.0050	"	0.100		84.3	70-130			
Naphthalene	0.0778	0.0038	"	0.100		77.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0399		"	0.0400		99.8	50-150			
Surrogate: Toluene-d8	0.0420		"	0.0400		105	50-150			
Surrogate: 4-Bromofluorobenzene	0.0390		"	0.0400		97.6	50-150			

Matrix Spike (BHG0749-MS1)

Source: 2407289-01

Prepared: 07/25/24 Analyzed: 07/28/24

Benzene	0.0727	0.0020	mg/kg	0.100	ND	72.7	70-130			
Toluene	0.0815	0.0050	"	0.100	ND	81.5	70-130			
Ethylbenzene	0.0680	0.0050	"	0.100	ND	68.0	70-130			QM-05
m,p-Xylene	0.135	0.010	"	0.200	ND	67.5	70-130			QM-05
o-Xylene	0.0691	0.0050	"	0.100	ND	69.1	70-130			QM-05
1,2,4-Trimethylbenzene	0.0571	0.0050	"	0.100	ND	57.1	70-130			QM-05
1,3,5-Trimethylbenzene	0.0615	0.0050	"	0.100	ND	61.5	70-130			QM-05
Naphthalene	0.0535	0.0038	"	0.100	ND	53.5	70-130			QM-05
Surrogate: 1,2-Dichloroethane-d4	0.0504		"	0.0400		126	50-150			
Surrogate: Toluene-d8	0.0429		"	0.0400		107	50-150			
Surrogate: 4-Bromofluorobenzene	0.0396		"	0.0400		99.1	50-150			

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

Project: Noble - Torres USX AB 35-09
Project Number: UWRWE-A4149-ABN
Project Manager: Jacob Whritenour

Reported:
07/30/24 09:14

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

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

Batch BHG0749 - EPA 5030 Soil MS

Matrix Spike Dup (BHG0749-MSD1)		Source: 2407289-01			Prepared: 07/25/24 Analyzed: 07/29/24					
Benzene	0.0640	0.0020	mg/kg	0.100	ND	64.0	70-130	12.7	30	QM-05
Toluene	0.0748	0.0050	"	0.100	ND	74.8	70-130	8.56	30	
Ethylbenzene	0.0678	0.0050	"	0.100	ND	67.8	70-130	0.221	30	QM-05
m,p-Xylene	0.135	0.010	"	0.200	ND	67.4	70-130	0.0222	30	QM-05
o-Xylene	0.0674	0.0050	"	0.100	ND	67.4	70-130	2.42	30	QM-05
1,2,4-Trimethylbenzene	0.0562	0.0050	"	0.100	ND	56.2	70-130	1.54	30	QM-05
1,3,5-Trimethylbenzene	0.0610	0.0050	"	0.100	ND	61.0	70-130	0.734	30	QM-05
Naphthalene	0.0490	0.0038	"	0.100	ND	49.0	70-130	8.72	30	QM-05
Surrogate: 1,2-Dichloroethane-d4		0.0461	"	0.0400		115	50-150			
Surrogate: Toluene-d8		0.0426	"	0.0400		106	50-150			
Surrogate: 4-Bromofluorobenzene		0.0394	"	0.0400		98.4	50-150			

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

Project: Noble - Torres USX AB 35-09
Project Number: UWRWE-A4149-ABN
Project Manager: Jacob Whritenour

Reported:
07/30/24 09:14

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BHG0750 - EPA 3550A

Blank (BHG0750-BLK1)

Prepared & Analyzed: 07/25/24

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	11.7		"	12.5		93.4	30-150			

LCS (BHG0750-BS1)

Prepared & Analyzed: 07/25/24

C10-C28 (DRO)	584	50	mg/kg	500		117	70-130			
Surrogate: o-Terphenyl	13.3		"	12.5		106	30-150			

Matrix Spike (BHG0750-MS1)

Source: 2407289-01

Prepared & Analyzed: 07/25/24

C10-C28 (DRO)	468	50	mg/kg	500	21.0	89.4	70-130			
Surrogate: o-Terphenyl	10.2		"	12.5		81.2	30-150			

Matrix Spike Dup (BHG0750-MSD1)

Source: 2407289-01

Prepared & Analyzed: 07/25/24

C10-C28 (DRO)	496	50	mg/kg	500	21.0	95.0	70-130	5.90	20	
Surrogate: o-Terphenyl	12.2		"	12.5		97.7	30-150			

Summit Scientific

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

Project: Noble - Torres USX AB 35-09
Project Number: UWRWE-A4149-ABN
Project Manager: Jacob Whritenour

Reported:
07/30/24 09:14

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHG0669 - EPA 5030 Soil MS

Blank (BHG0669-BLK1)

Prepared & Analyzed: 07/24/24

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	0.0160		"	0.0333		48.0	40-150			
Surrogate: Fluoranthene-d10	0.0195		"	0.0333		58.6	40-150			

LCS (BHG0669-BS1)

Prepared & Analyzed: 07/24/24

Acenaphthene	0.0184	0.00500	mg/kg	0.0333		55.3	31-137			
Anthracene	0.0194	0.00500	"	0.0333		58.2	30-120			
Benzo (a) anthracene	0.0221	0.00500	"	0.0333		66.3	30-120			
Benzo (a) pyrene	0.0163	0.00500	"	0.0333		48.8	30-120			
Benzo (b) fluoranthene	0.0140	0.00500	"	0.0333		41.9	30-120			
Benzo (k) fluoranthene	0.0146	0.00500	"	0.0333		43.7	30-120			
Chrysene	0.0188	0.00500	"	0.0333		56.3	30-120			
Dibenz (a,h) anthracene	0.0189	0.00500	"	0.0333		56.8	30-120			
Fluoranthene	0.0196	0.00500	"	0.0333		58.9	30-120			
Fluorene	0.0194	0.00500	"	0.0333		58.1	30-120			
Indeno (1,2,3-cd) pyrene	0.0206	0.00500	"	0.0333		61.9	30-120			
Pyrene	0.0249	0.00500	"	0.0333		74.6	35-142			
1-Methylnaphthalene	0.0183	0.00500	"	0.0333		54.9	35-142			
2-Methylnaphthalene	0.0182	0.00500	"	0.0333		54.5	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0179		"	0.0333		53.8	40-150			
Surrogate: Fluoranthene-d10	0.0209		"	0.0333		62.6	40-150			

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Project: Noble - Torres USX AB 35-09
Project Number: UWRWE-A4149-ABN
Project Manager: Jacob Whritenour

Reported:
07/30/24 09:14

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHG0669 - EPA 5030 Soil MS

Matrix Spike (BHG0669-MS1)

Source: 2407302-01

Prepared & Analyzed: 07/24/24

Acenaphthene	0.0167	0.00500	mg/kg	0.0333	ND	50.1	31-137		
Anthracene	0.0197	0.00500	"	0.0333	ND	59.2	30-120		
Benzo (a) anthracene	0.0227	0.00500	"	0.0333	ND	68.2	30-120		
Benzo (a) pyrene	0.0148	0.00500	"	0.0333	ND	44.5	30-120		
Benzo (b) fluoranthene	0.0172	0.00500	"	0.0333	ND	51.5	30-120		
Benzo (k) fluoranthene	0.0166	0.00500	"	0.0333	ND	49.9	30-120		
Chrysene	0.0184	0.00500	"	0.0333	ND	55.2	30-120		
Dibenz (a,h) anthracene	0.0148	0.00500	"	0.0333	ND	44.5	30-120		
Fluoranthene	0.0202	0.00500	"	0.0333	ND	60.5	30-120		
Fluorene	0.0197	0.00500	"	0.0333	ND	59.0	30-120		
Indeno (1,2,3-cd) pyrene	0.0200	0.00500	"	0.0333	ND	60.1	30-120		
Pyrene	0.0232	0.00500	"	0.0333	ND	69.5	35-142		
1-Methylnaphthalene	0.0183	0.00500	"	0.0333	ND	54.9	15-130		
2-Methylnaphthalene	0.0194	0.00500	"	0.0333	ND	58.2	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0160		"	0.0333		47.9	40-150		
Surrogate: Fluoranthene-d10	0.0207		"	0.0333		62.0	40-150		

Matrix Spike Dup (BHG0669-MSD1)

Source: 2407302-01

Prepared & Analyzed: 07/24/24

Acenaphthene	0.0150	0.00500	mg/kg	0.0333	ND	45.0	31-137	10.7	30
Anthracene	0.0183	0.00500	"	0.0333	ND	54.8	30-120	7.73	30
Benzo (a) anthracene	0.0216	0.00500	"	0.0333	ND	64.7	30-120	5.25	30
Benzo (a) pyrene	0.0134	0.00500	"	0.0333	ND	40.3	30-120	9.80	30
Benzo (b) fluoranthene	0.0158	0.00500	"	0.0333	ND	47.4	30-120	8.12	30
Benzo (k) fluoranthene	0.0198	0.00500	"	0.0333	ND	59.5	30-120	17.5	30
Chrysene	0.0174	0.00500	"	0.0333	ND	52.2	30-120	5.64	30
Dibenz (a,h) anthracene	0.0189	0.00500	"	0.0333	ND	56.6	30-120	24.1	30
Fluoranthene	0.0190	0.00500	"	0.0333	ND	57.0	30-120	5.90	30
Fluorene	0.0198	0.00500	"	0.0333	ND	59.3	30-120	0.482	30
Indeno (1,2,3-cd) pyrene	0.0157	0.00500	"	0.0333	ND	47.1	30-120	24.3	30
Pyrene	0.0190	0.00500	"	0.0333	ND	57.0	35-142	19.7	30
1-Methylnaphthalene	0.0174	0.00500	"	0.0333	ND	52.3	15-130	4.90	50
2-Methylnaphthalene	0.0191	0.00500	"	0.0333	ND	57.4	15-130	1.35	50
Surrogate: 2-Methylnaphthalene-d10	0.0146		"	0.0333		43.8	40-150		
Surrogate: Fluoranthene-d10	0.0192		"	0.0333		57.7	40-150		

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

Project: Noble - Torres USX AB 35-09

Project Number: UWRWE-A4149-ABN
Project Manager: Jacob Whritenour

Reported:
07/30/24 09:14

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

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

Batch BHG0676 - EPA 3050B

Blank (BHG0676-BLK1)

Prepared & Analyzed: 07/24/24

Boron ND 2.00 mg/L

LCS (BHG0676-BS1)

Prepared & Analyzed: 07/24/24

Boron 5.11 2.00 mg/L 5.00 102 80-120

Duplicate (BHG0676-DUP1)

Source: 2407287-01

Prepared & Analyzed: 07/24/24

Boron 0.0501 2.00 mg/L 0.152 101 20 QR-01

Matrix Spike (BHG0676-MS1)

Source: 2407287-01

Prepared & Analyzed: 07/24/24

Boron 5.19 2.00 mg/L 5.04 0.152 100 75-125

Matrix Spike Dup (BHG0676-MSD1)

Source: 2407287-01

Prepared & Analyzed: 07/24/24

Boron 5.45 2.00 mg/L 5.04 0.152 105 75-125 4.96 25

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Broomfield CO, 80020

Project: Noble - Torres USX AB 35-09
Project Number: UWRWE-A4149-ABN
Project Manager: Jacob Whritenour

Reported:
07/30/24 09:14

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHG0683 - EPA 3050B

Blank (BHG0683-BLK1)

Prepared: 07/24/24 Analyzed: 07/25/24

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 (BHG0683-BS1)

Prepared: 07/24/24 Analyzed: 07/25/24

Arsenic	38.3	0.200	mg/kg wet	36.5	105	80-120
Barium	37.4	0.400	"	36.5	102	80-120
Cadmium	1.75	0.200	"	1.82	95.7	80-120
Copper	37.0	0.400	"	36.5	101	80-120
Lead	17.6	0.200	"	18.2	96.4	80-120
Nickel	36.5	0.400	"	36.5	99.9	80-120
Silver	1.75	0.0200	"	1.82	95.9	80-120
Zinc	37.0	0.400	"	36.5	101	80-120
Selenium	3.86	0.260	"	3.65	106	80-120

Duplicate (BHG0683-DUP1)

Source: 2407289-01

Prepared: 07/24/24 Analyzed: 07/25/24

Arsenic	2.46	0.200	mg/kg dry	2.32	5.69	20
Barium	80.3	0.400	"	87.3	8.29	20
Cadmium	0.272	0.200	"	0.234	15.1	20
Copper	5.49	0.400	"	5.32	3.14	20
Lead	7.88	0.200	"	7.53	4.47	20
Nickel	6.23	0.400	"	5.93	4.99	20
Silver	0.0196	0.0200	"	0.0170	14.6	20
Zinc	18.7	0.400	"	18.5	1.04	20
Selenium	ND	0.260	"	ND		20

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Broomfield CO, 80020

Project: Noble - Torres USX AB 35-09

Project Number: UWRWE-A4149-ABN
Project Manager: Jacob Whritenour

Reported:
07/30/24 09:14

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 BHG0683 - EPA 3050B

Matrix Spike (BHG0683-MS1)

Source: 2407289-01

Prepared: 07/24/24 Analyzed: 07/25/24

Arsenic	21.0	0.200	mg/kg dry	40.5	2.32	46.2	75-125			QM-05
Barium	114	0.400	"	40.5	87.3	65.2	75-125			QM-07
Cadmium	2.23	0.200	"	2.03	0.234	98.3	75-125			
Copper	23.9	0.400	"	40.5	5.32	45.8	75-125			QM-05
Lead	24.1	0.200	"	20.3	7.53	81.8	75-125			
Nickel	23.8	0.400	"	40.5	5.93	44.2	75-125			QM-05
Silver	1.95	0.0200	"	2.03	0.0170	95.2	75-125			
Zinc	37.0	0.400	"	40.5	18.5	45.6	75-125			QM-05
Selenium	3.23	0.260	"	4.05	ND	79.6	75-125			

Matrix Spike Dup (BHG0683-MSD1)

Source: 2407289-01

Prepared: 07/24/24 Analyzed: 07/25/24

Arsenic	19.9	0.181	mg/kg dry	40.0	2.32	44.0	75-125	5.63	25	QM-05
Barium	143	0.362	"	40.0	87.3	141	75-125	23.1	25	QM-07
Cadmium	2.19	0.181	"	2.00	0.234	98.0	75-125	1.50	25	
Copper	23.1	0.362	"	40.0	5.32	44.4	75-125	3.57	25	QM-05
Lead	23.4	0.181	"	20.0	7.53	79.5	75-125	2.95	25	
Nickel	23.7	0.362	"	40.0	5.93	44.5	75-125	0.472	25	QM-05
Silver	1.92	0.0181	"	2.00	0.0170	95.2	75-125	1.50	25	
Zinc	36.2	0.362	"	40.0	18.5	44.3	75-125	2.13	25	QM-05
Selenium	3.15	0.236	"	4.00	ND	78.9	75-125	2.24	25	

Post Spike (BHG0683-PS1)

Source: 2407289-01

Prepared: 07/24/24 Analyzed: 07/25/24

Arsenic	55.3		ug/l	100	5.27	50.0	75-125			QM-01
Barium	296		"	100	198	98.5	75-125			
Cadmium	5.42		"	5.00	0.530	97.8	75-125			
Copper	61.2		"	100	12.1	49.1	75-125			QM-01
Lead	59.8		"	50.0	17.1	85.4	75-125			
Nickel	61.8		"	100	13.4	48.4	75-125			QM-01
Silver	4.88		"	5.00	0.0385	96.9	75-125			
Zinc	92.8		"	100	42.0	50.8	75-125			QM-01
Selenium	8.92		"	10.0	0.133	87.9	75-125			

Summit Scientific

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

Project: Noble - Torres USX AB 35-09
Project Number: UWRWE-A4149-ABN
Project Manager: Jacob Whritenour

Reported:
07/30/24 09:14

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BHG0688 - 3060A Mod

Blank (BHG0688-BLK1)

Prepared & Analyzed: 07/24/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHG0688-BS1)

Prepared & Analyzed: 07/24/24

Chromium, Hexavalent 25.6 0.30 mg/kg wet 25.0 102 80-120

Duplicate (BHG0688-DUP1)

Source: 2407289-01

Prepared & Analyzed: 07/24/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHG0688-MS1)

Source: 2407289-01

Prepared & Analyzed: 07/24/24

Chromium, Hexavalent 29.4 0.30 mg/kg dry 27.6 ND 107 75-125

Matrix Spike Dup (BHG0688-MSD1)

Source: 2407289-01

Prepared & Analyzed: 07/24/24

Chromium, Hexavalent 29.2 0.30 mg/kg dry 27.6 ND 106 75-125 0.752 20

Summit Scientific

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

Project: Noble - Torres USX AB 35-09

Project Number: UWRWE-A4149-ABN
Project Manager: Jacob Whritenour

Reported:
07/30/24 09:14

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

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

Batch BHG0684 - General Preparation

Blank (BHG0684-BLK1)

Prepared: 07/24/24 Analyzed: 07/26/24

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

LCS (BHG0684-BS1)

Prepared: 07/24/24 Analyzed: 07/26/24

Calcium	5.62	0.0500	mg/L wet	70-130
Magnesium	5.78	0.0500	"	70-130
Sodium	5.71	0.0500	"	70-130

Summit Scientific

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

Project: Noble - Torres USX AB 35-09

Project Number: UWRWE-A4149-ABN
Project Manager: Jacob Whritenour

Reported:
07/30/24 09:14

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

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

Batch BHG0678 - General Preparation

Duplicate (BHG0678-DUP1)		Source: 2407302-01			Prepared & Analyzed: 07/24/24						
% Solids	92.7		%		92.5		0.245		20		

Summit Scientific

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

Project: Noble - Torres USX AB 35-09

Project Number: UWRWE-A4149-ABN
Project Manager: Jacob Whritenour

Reported:
07/30/24 09:14

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

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

Batch BHG0685 - General Preparation

Blank (BHG0685-BLK1)

Prepared: 07/24/24 Analyzed: 07/26/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHG0685-BS1)

Prepared: 07/24/24 Analyzed: 07/26/24

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

Duplicate (BHG0685-DUP1)

Source: 2407289-01

Prepared: 07/24/24 Analyzed: 07/26/24

Specific Conductance (EC) 0.206 0.0100 mmhos/cm 0.209 1.30 20

Summit Scientific

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

Project: Noble - Torres USX AB 35-09

Project Number: UWRWE-A4149-ABN
Project Manager: Jacob Whritenour

Reported:
07/30/24 09:14

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

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

Batch BHG0687 - General Preparation

LCS (BHG0687-BS1)

Prepared: 07/24/24 Analyzed: 07/26/24

pH	9.17	pH Units	9.18	99.9	95-105
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Duplicate (BHG0687-DUP1)

Source: 2407289-01

Prepared: 07/24/24 Analyzed: 07/26/24

pH	9.06	pH Units	9.18	1.32	20
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Summit Scientific

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

Project: Noble - Torres USX AB 35-09

Project Number: UWRWE-A4149-ABN
Project Manager: Jacob Whritenour

Reported:
07/30/24 09:14

Notes and Definitions

QR-01	Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
QM-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.
QM-01	The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference