

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

May 05, 2025

Mike Medina

Tasman Geosciences

4725 Independence St.

Wheat Ridge, CO 80033

RE: Noble - Bruntz G16-23 Flowline

Work Order #2503392

Enclosed are the results of analyses for samples received by Summit Scientific on 03/27/25 18:00. 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 written in a cursive, flowing style.

Natalie Tessier For Paul Shrewsbury

President



Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Bruntz G16-23 Flowline

Project Number: UWRWE-A3660-ABN
Project Manager: Mike Medina

Reported:
05/05/25 09:20

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS06-D@4'	2503392-01	Soil	03/27/25 10:00	03/27/25 18:00
SS07-D@1'	2503392-02	Soil	03/27/25 10:02	03/27/25 18:00
SS08-D@1'	2503392-03	Soil	03/27/25 10:04	03/27/25 18:00
SS09-D@1'	2503392-04	Soil	03/27/25 10:06	03/27/25 18:00
GW01	2503392-05	Water	03/27/25 12:05	03/27/25 18:00



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

Lab ID	Page of
2503392	

Client: Noble / Tasman	Send Data To: Project Manager: Mike Medina	Send Invoice To: Company: Noble Energy
Address: 4725 Independence St.	E-Mail: jason.davidson@chevron.com; tas-chevron-2@tasman-geo.com; rbueuf27@chevron.com	Project Name/Location: Bruntz G16-23 Flowline
City/State/Zip: Wheat Ridge / CO / 80033	Project Name: Bruntz G16-23 Flowline	AFE#:
Phone: 303-487-1228	Project Number:	PO/Billing Codes:
Sampler Name: Jon Meier	Contact: Jason Davidson	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested						Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEXN - 8260B	1,2,4 & 1,3,5-TMB	TDS, Cl, SO4	Full 915-1 Suite	pH, EC, SAR, boron		Table 915-1 Metals
1	SS06-D@4'	3/27/25	1000	2			X			X									* Base Organics on same day, all other analytes on 48 hour turn around.
2	SS07-D@1'		1002																
3	SS08-D@1'		1004																
4	SS09-D@1'		1006																
5	GW01		1205	4	3	1		X				X	X	X					
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			

Relinquished by:	Date/Time: 3/27/25 1332	Received by: Tasman Dropbox	Date/Time: 3/27/25 1332	TAT Business Days	Field DO	Notes:
				Same Day <input checked="" type="checkbox"/>	Field EC	
Relinquished by: Tasman Dropbox	Date/Time: 3/27/25 1800	Received by:	Date/Time: 3/27/25 1800	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: 3.1	Corrected Temperature: 0	IR gun #: 1	HNO3 lot #:			

S₂

S2 Work Order# 2503392

Sample Receipt Checklist

Client: Nikolai Tashman Client Project ID: Bruntz Gillo-23 FoulmireReceived Via: H.D./P.U./FedEx/UPS/USPS/Other Airbill #: _____Matrix (Circle all that apply) Air/Soil/Water/Other Temp (°C) 3.1 Thermometer # 1Bottle ware (Circle all that apply) Glass Jar/Vial/Amber/Poly/Other

	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.	-			<u>on ice</u>
If custody seals are present, are they intact? ⁽¹⁾	-			
Are samples due within 48 hours?	-			<u>Same day</u>
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, Total Residual Chlorine (TRC)		-		
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<u>A</u>	-		<u>Page 1 of 2 not complete</u>
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⁾	✓			
Were samples provided in appropriate bottle ware?	✓			
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 any samples/bottles preserved (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	✓			<u>HCl</u>
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?			✓	
Are there requested analysis that cannot be performed by S2? Note analysis in the comments column			✓	
Additional Comments (if any):				

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.

Control Form #: SFG-001

AS
Custodian Printed Name

3/27/25
Date/Time



Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Bruntz G16-23 Flowline
Project Number: UWRWE-A3660-ABN
Project Manager: Mike Medina

Reported:
05/05/25 09:20

SS06-D@4'
2503392-01 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/27/25 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BIC1711	03/27/25	03/27/25	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: **03/27/25 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0385	96.2 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0374	93.4 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0392	98.1 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/27/25 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BIC1714	03/27/25	03/27/25	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **03/27/25 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	9.40	75.2 %		50-140		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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05/05/25 09:20

SS06-D@4'
2503392-01 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **03/27/25 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIC1739	03/28/25	05/02/25	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: **03/27/25 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0249	74.7 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0279	83.8 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/27/25 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIC1727	03/28/25	04/04/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/27/25 10:00**

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

Project: Noble - Bruntz G16-23 Flowline
Project Number: UWRWE-A3660-ABN
Project Manager: Mike Medina

Reported:
05/05/25 09:20

SS06-D@4'
2503392-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.20	0.200	mg/kg dry	1	BIC1716	03/28/25	03/28/25	EPA 6020B	
Barium	99.4	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	4.47	0.400	"	"	"	"	"	"	
Lead	6.36	0.200	"	"	"	"	"	"	
Nickel	3.58	0.400	"	"	"	"	"	"	
Silver	0.0346	0.0200	"	"	"	"	"	"	
Zinc	16.0	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/27/25 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIC1724	03/28/25	03/28/25	EPA 7196A	

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

Date Sampled: **03/27/25 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	31.7	0.0500	mg/L dry	1	BIC1710	03/27/25	03/28/25	EPA 6020B	
Magnesium	6.49	0.0500	"	"	"	"	"	"	
Sodium	58.1	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/27/25 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.46	0.00100	units	1	BID0176	04/03/25	04/03/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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2503392-01 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/27/25 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.0		%	1	BIC1722	03/28/25	03/28/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/27/25 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.569	0.0100	mmhos/cm	1	BIC1713	03/27/25	03/28/25	EPA 120.1	

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

Date Sampled: **03/27/25 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.36		pH Units	1	BIC1712	03/27/25	03/28/25	EPA 9045D	

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Project: Noble - Bruntz G16-23 Flowline
Project Number: UWRWE-A3660-ABN
Project Manager: Mike Medina

Reported:
05/05/25 09:20

SS07-D@1'
2503392-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/27/25 10:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BIC1711	03/27/25	03/27/25	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: **03/27/25 10:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0398	99.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0400	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0371	92.7 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/27/25 10:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BIC1714	03/27/25	03/27/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/27/25 10:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	9.43	75.4 %	50-140		"	"	"	"	

PAH by EPA Method 8270D SIM

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05/05/25 09:20

SS07-D@1'
2503392-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/27/25 10:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIC1739	03/28/25	05/02/25	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: **03/27/25 10:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0240	71.9 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0260	78.1 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/27/25 10:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIC1727	03/28/25	04/04/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/27/25 10:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Bruntz G16-23 Flowline

Project Number: UWRWE-A3660-ABN
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05/05/25 09:20

SS07-D@1'
2503392-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	2.16	0.200	mg/kg dry	1	BIC1716	03/28/25	03/28/25	EPA 6020B
Barium	49.2	0.400	"	"	"	"	"	"
Cadmium	0.285	0.200	"	"	"	"	"	"
Copper	6.22	0.400	"	"	"	"	"	"
Lead	9.28	0.200	"	"	"	"	"	"
Nickel	3.33	0.400	"	"	"	"	"	"
Silver	0.0867	0.0200	"	"	"	"	"	"
Zinc	21.0	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/27/25 10:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIC1724	03/28/25	03/28/25	EPA 7196A	

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

Date Sampled: **03/27/25 10:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	60.6	0.0500	mg/L dry	1	BIC1710	03/27/25	03/28/25	EPA 6020B	
Magnesium	14.3	0.0500	"	"	"	"	"	"	
Sodium	46.6	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/27/25 10:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.40	0.00100	units	1	BID0176	04/03/25	04/03/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/27/25 10:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Manager: Mike Medina

Reported:
05/05/25 09:20

SS07-D@1'
2503392-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	91.3	%	1	BIC1722	03/28/25	03/28/25	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/27/25 10:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.509	0.0100	mmhos/cm	1	BIC1713	03/27/25	03/28/25	EPA 120.1	

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

Date Sampled: **03/27/25 10:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.21		pH Units	1	BIC1712	03/27/25	03/28/25	EPA 9045D	

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Project: Noble - Bruntz G16-23 Flowline
Project Number: UWRWE-A3660-ABN
Project Manager: Mike Medina

Reported:
05/05/25 09:20

SS08-D@1'
2503392-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/27/25 10:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BIC1711	03/27/25	03/27/25	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: **03/27/25 10:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0422	106 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0407	102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0392	98.0 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/27/25 10:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BIC1714	03/27/25	03/28/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/27/25 10:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	14.9	119 %	50-140		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Bruntz G16-23 Flowline
Project Number: UWRWE-A3660-ABN
Project Manager: Mike Medina

Reported:
05/05/25 09:20

SS08-D@1'
2503392-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/27/25 10:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIC1739	03/28/25	05/02/25	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: **03/27/25 10:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0231	69.2 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0256	76.7 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/27/25 10:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIC1727	03/28/25	04/04/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/27/25 10:04**

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

Project: Noble - Bruntz G16-23 Flowline
Project Number: UWRWE-A3660-ABN
Project Manager: Mike Medina

Reported:
05/05/25 09:20

SS08-D@1'
2503392-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.95	0.200	mg/kg dry	1	BIC1716	03/28/25	03/28/25	EPA 6020B	
Barium	46.1	0.400	"	"	"	"	"	"	
Cadmium	0.224	0.200	"	"	"	"	"	"	
Copper	5.16	0.400	"	"	"	"	"	"	
Lead	7.47	0.200	"	"	"	"	"	"	
Nickel	3.41	0.400	"	"	"	"	"	"	
Silver	0.0616	0.0200	"	"	"	"	"	"	
Zinc	19.3	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/27/25 10:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIC1724	03/28/25	03/28/25	EPA 7196A	

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

Date Sampled: **03/27/25 10:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	31.0	0.0500	mg/L dry	1	BIC1710	03/27/25	03/28/25	EPA 6020B	
Magnesium	7.18	0.0500	"	"	"	"	"	"	
Sodium	12.2	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/27/25 10:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.513	0.00100	units	1	BID0176	04/03/25	04/03/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/27/25 10:04**

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

Project: Noble - Bruntz G16-23 Flowline
 Project Number: UWRWE-A3660-ABN
 Project Manager: Mike Medina

Reported:
 05/05/25 09:20

SS08-D@1'
2503392-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	93.4	%	1	BIC1722	03/28/25	03/28/25	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/27/25 10:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.317	0.0100	mmhos/cm	1	BIC1713	03/27/25	03/28/25	EPA 120.1	

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

Date Sampled: **03/27/25 10:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.86		pH Units	1	BIC1712	03/27/25	03/28/25	EPA 9045D	

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Bruntz G16-23 Flowline
Project Number: UWRWE-A3660-ABN
Project Manager: Mike Medina

Reported:
05/05/25 09:20

SS09-D@1'
2503392-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/27/25 10:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BIC1711	03/27/25	03/27/25	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: **03/27/25 10:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0369	92.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0399	99.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0371	92.8 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/27/25 10:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BIC1714	03/27/25	03/28/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/27/25 10:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	6.90	55.2 %	50-140		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Bruntz G16-23 Flowline
Project Number: UWRWE-A3660-ABN
Project Manager: Mike Medina

Reported:
05/05/25 09:20

SS09-D@1'
2503392-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/27/25 10:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIC1739	03/28/25	05/02/25	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: **03/27/25 10:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0255	76.5 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0284	85.3 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/27/25 10:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIC1727	03/28/25	04/04/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/27/25 10:06**

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

Project: Noble - Bruntz G16-23 Flowline

Project Number: UWRWE-A3660-ABN
Project Manager: Mike Medina

Reported:
05/05/25 09:20

SS09-D@1'
2503392-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	3.48	0.200	mg/kg dry	1	BIC1716	03/28/25	03/28/25	EPA 6020B
Barium	74.6	0.400	"	"	"	"	"	"
Cadmium	0.319	0.200	"	"	"	"	"	"
Copper	6.84	0.400	"	"	"	"	"	"
Lead	9.59	0.200	"	"	"	"	"	"
Nickel	5.04	0.400	"	"	"	"	"	"
Silver	0.0936	0.0200	"	"	"	"	"	"
Zinc	22.5	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/27/25 10:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIC1724	03/28/25	03/28/25	EPA 7196A	

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

Date Sampled: **03/27/25 10:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	97.8	0.0500	mg/L dry	1	BIC1710	03/27/25	03/28/25	EPA 6020B	
Magnesium	23.9	0.0500	"	"	"	"	"	"	
Sodium	127	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/27/25 10:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.99	0.00100	units	1	BID0176	04/03/25	04/03/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/27/25 10:06**

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

Project: Noble - Bruntz G16-23 Flowline
 Project Number: UWRWE-A3660-ABN
 Project Manager: Mike Medina

Reported:
 05/05/25 09:20

SS09-D@1'
2503392-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	91.9	%	1	BIC1722	03/28/25	03/28/25	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/27/25 10:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.60	0.0100	mmhos/cm	1	BIC1713	03/27/25	03/28/25	EPA 120.1	

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

Date Sampled: **03/27/25 10:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.57		pH Units	1	BIC1712	03/27/25	03/28/25	EPA 9045D	

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Bruntz G16-23 Flowline
Project Number: UWRWE-A3660-ABN
Project Manager: Mike Medina

Reported:
05/05/25 09:20

GW01
2503392-05 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/27/25 12:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BIC1715	03/27/25	03/27/25	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	
Naphthalene	ND	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	

Date Sampled: **03/27/25 12:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	13.4	101 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	13.4	101 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.7	102 %		21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **03/27/25 12:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	241	0.0600		mg/L	50	BIC1684	03/27/25	04/06/25	EPA 300.0	
Sulfate	364	0.300		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **03/27/25 12:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	1420	10.0		mg/L	1	BIC1736	03/28/25	04/02/25	SM2540C	

Summit Scientific

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4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Bruntz G16-23 Flowline
Project Number: UWRWE-A3660-ABN
Project Manager: Mike Medina

Reported:
05/05/25 09:20

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BIC1711 - EPA 5030 Soil MS

Blank (BIC1711-BLK1)

Prepared: 03/27/25 Analyzed: 03/28/25

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	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0358</i>		<i>"</i>	<i>0.0400</i>		<i>89.6</i>	<i>50-150</i>				
<i>Surrogate: Toluene-d8</i>	<i>0.0399</i>		<i>"</i>	<i>0.0400</i>		<i>99.8</i>	<i>50-150</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0363</i>		<i>"</i>	<i>0.0400</i>		<i>90.8</i>	<i>50-150</i>				

LCS (BIC1711-BS1)

Prepared: 03/27/25 Analyzed: 03/28/25

Benzene	0.0891	0.0020	mg/kg	0.100		89.1	70-130				
Toluene	0.0944	0.0050	"	0.100		94.4	70-130				
Ethylbenzene	0.0866	0.0050	"	0.100		86.6	70-130				
m,p-Xylene	0.165	0.010	"	0.200		82.3	70-130				
o-Xylene	0.0852	0.0050	"	0.100		85.2	70-130				
1,2,4-Trimethylbenzene	0.0840	0.0050	"	0.100		84.0	70-130				
1,3,5-Trimethylbenzene	0.0825	0.0050	"	0.100		82.5	70-130				
Naphthalene	0.0772	0.0038	"	0.100		77.2	70-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0399</i>		<i>"</i>	<i>0.0400</i>		<i>99.7</i>	<i>50-150</i>				
<i>Surrogate: Toluene-d8</i>	<i>0.0410</i>		<i>"</i>	<i>0.0400</i>		<i>103</i>	<i>50-150</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0360</i>		<i>"</i>	<i>0.0400</i>		<i>90.1</i>	<i>50-150</i>				

Matrix Spike (BIC1711-MS1)

Source: 2503386-01

Prepared: 03/27/25 Analyzed: 03/28/25

Benzene	0.0863	0.0020	mg/kg	0.100	ND	86.3	70-130				
Toluene	0.0973	0.0050	"	0.100	ND	97.3	70-130				
Ethylbenzene	0.0901	0.0050	"	0.100	ND	90.1	70-130				
m,p-Xylene	0.184	0.010	"	0.200	ND	92.1	70-130				
o-Xylene	0.0908	0.0050	"	0.100	ND	90.8	70-130				
1,2,4-Trimethylbenzene	0.0906	0.0050	"	0.100	ND	90.6	70-130				
1,3,5-Trimethylbenzene	0.0768	0.0050	"	0.100	ND	76.8	70-130				
Naphthalene	0.0887	0.0038	"	0.100	ND	88.7	70-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0492</i>		<i>"</i>	<i>0.0400</i>		<i>123</i>	<i>50-150</i>				
<i>Surrogate: Toluene-d8</i>	<i>0.0413</i>		<i>"</i>	<i>0.0400</i>		<i>103</i>	<i>50-150</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0398</i>		<i>"</i>	<i>0.0400</i>		<i>99.6</i>	<i>50-150</i>				

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Bruntz G16-23 Flowline
Project Number: UWRWE-A3660-ABN
Project Manager: Mike Medina

Reported:
05/05/25 09:20

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 BIC1711 - EPA 5030 Soil MS

Matrix Spike Dup (BIC1711-MSD1)	Source: 2503386-01			Prepared: 03/27/25 Analyzed: 03/28/25						
Benzene	0.0671	0.0020	mg/kg	0.100	ND	67.1	70-130	25.0	30	QM-05
Toluene	0.0855	"	"	0.100	ND	85.5	70-130	12.9	30	
Ethylbenzene	0.0832	0.0050	"	0.100	ND	83.2	70-130	7.86	30	
m,p-Xylene	0.143	0.010	"	0.200	ND	71.6	70-130	25.0	30	
o-Xylene	0.0851	0.0050	"	0.100	ND	85.1	70-130	6.38	30	
1,2,4-Trimethylbenzene	0.0854	0.0050	"	0.100	ND	85.4	70-130	5.93	30	
1,3,5-Trimethylbenzene	0.0712	0.0050	"	0.100	ND	71.2	70-130	7.50	30	
Naphthalene	0.0779	0.0038	"	0.100	ND	77.9	70-130	13.0	30	
Surrogate: 1,2-Dichloroethane-d4	0.0372	"	"	0.0400		92.9	50-150			
Surrogate: Toluene-d8	0.0349	"	"	0.0400		87.2	50-150			
Surrogate: 4-Bromofluorobenzene	0.0386	"	"	0.0400		96.4	50-150			

Batch BIC1715 - EPA 5030 Water MS

Blank (BIC1715-BLK1)	Prepared & Analyzed: 03/27/25										
Benzene	ND	1.0	ug/l								
Toluene	ND	1.0	"								
Ethylbenzene	ND	1.0	"								
Xylenes (total)	ND	2.0	"								
Naphthalene	ND	1.0	"								
1,2,4-Trimethylbenzene	ND	1.0	"								
1,3,5-Trimethylbenzene	ND	1.0	"								
Surrogate: 1,2-Dichloroethane-d4	13.1	"	"	13.3		98.3	23-173				
Surrogate: Toluene-d8	13.2	"	"	13.3		98.7	20-170				
Surrogate: 4-Bromofluorobenzene	13.6	"	"	13.3		102	21-167				

LCS (BIC1715-BS1)	Prepared & Analyzed: 03/27/25									
Benzene	34.4	1.0	ug/l	33.3		103	51-132			
Toluene	33.8	1.0	"	33.3		101	51-138			
Ethylbenzene	33.8	1.0	"	33.3		101	58-146			
m,p-Xylene	67.2	2.0	"	66.7		101	57-144			
o-Xylene	33.3	1.0	"	33.3		99.8	53-146			
Naphthalene	35.1	1.0	"	33.3		105	70-130			
1,2,4-Trimethylbenzene	31.8	1.0	"	33.3		95.4	70-130			
1,3,5-Trimethylbenzene	32.7	1.0	"	33.3		98.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	13.4	"	"	13.3		101	23-173			
Surrogate: Toluene-d8	13.2	"	"	13.3		98.7	20-170			
Surrogate: 4-Bromofluorobenzene	13.4	"	"	13.3		100	21-167			

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Bruntz G16-23 Flowline
Project Number: UWRWE-A3660-ABN
Project Manager: Mike Medina

Reported:
05/05/25 09:20

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BIC1715 - EPA 5030 Water MS

LCS Dup (BIC1715-BSD1)

Prepared & Analyzed: 03/27/25

Benzene	35.2	1.0	ug/l	33.3	106	51-132	2.15	20	
Toluene	34.6	1.0	"	33.3	104	51-138	2.60	20	
Ethylbenzene	34.8	1.0	"	33.3	104	58-146	2.89	20	
m,p-Xylene	68.5	2.0	"	66.7	103	57-144	1.86	20	
o-Xylene	33.7	1.0	"	33.3	101	53-146	1.37	20	
Naphthalene	36.2	1.0	"	33.3	109	70-130	3.28	20	
1,2,4-Trimethylbenzene	32.5	1.0	"	33.3	97.4	70-130	2.08	20	
1,3,5-Trimethylbenzene	33.7	1.0	"	33.3	101	70-130	3.10	20	
Surrogate: 1,2-Dichloroethane-d4	13.7		"	13.3	103	23-173			
Surrogate: Toluene-d8	13.4		"	13.3	101	20-170			
Surrogate: 4-Bromofluorobenzene	13.2		"	13.3	99.2	21-167			

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Bruntz G16-23 Flowline
Project Number: UWRWE-A3660-ABN
Project Manager: Mike Medina

Reported:
05/05/25 09:20

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 BIC1714 - EPA 3550A

Blank (BIC1714-BLK1)

Prepared: 03/27/25 Analyzed: 03/28/25

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	13.6		"	12.5		109	50-140				

LCS (BIC1714-BS1)

Prepared: 03/27/25 Analyzed: 03/28/25

C10-C28 (DRO)	449	50	mg/kg	500		89.9	50-140				
Surrogate: <i>o</i> -Terphenyl	11.8		"	12.5		94.5	50-140				

Matrix Spike (BIC1714-MS1)

Source: 2503386-01

Prepared: 03/27/25 Analyzed: 03/28/25

C10-C28 (DRO)	403	50	mg/kg	500	ND	80.7	50-140				
Surrogate: <i>o</i> -Terphenyl	11.2		"	12.5		89.4	50-140				

Matrix Spike Dup (BIC1714-MSD1)

Source: 2503386-01

Prepared: 03/27/25 Analyzed: 03/28/25

C10-C28 (DRO)	447	50	mg/kg	500	ND	89.3	50-140	10.2	20		
Surrogate: <i>o</i> -Terphenyl	11.0		"	12.5		87.9	50-140				

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Bruntz G16-23 Flowline
Project Number: UWRWE-A3660-ABN
Project Manager: Mike Medina

Reported:
05/05/25 09:20

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BIC1739 - EPA 5030 Soil MS

Blank (BIC1739-BLK1)

Prepared: 03/28/25 Analyzed: 05/01/25

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	"							
Surrogate: 2-Methylnaphthalene-d10	0.0209		"	0.0333		62.8	40-140			
Surrogate: Fluoranthene-d10	0.0272		"	0.0333		81.7	40-140			

LCS (BIC1739-BS1)

Prepared: 03/28/25 Analyzed: 05/01/25

Acenaphthene	0.0244	0.00500	mg/kg	0.0333		73.2	40-140			
Anthracene	0.0255	0.00500	"	0.0333		76.5	40-140			
Benzo (a) anthracene	0.0277	0.00500	"	0.0333		83.0	40-140			
Benzo (a) pyrene	0.0256	0.00500	"	0.0333		76.8	40-140			
Benzo (b) fluoranthene	0.0248	0.00500	"	0.0333		74.3	40-140			
Benzo (k) fluoranthene	0.0245	0.00500	"	0.0333		73.4	40-140			
Chrysene	0.0252	0.00500	"	0.0333		75.6	40-140			
Dibenz (a,h) anthracene	0.0258	0.00500	"	0.0333		77.4	40-140			
Fluoranthene	0.0260	0.00500	"	0.0333		77.9	40-140			
Fluorene	0.0253	0.00500	"	0.0333		75.8	40-140			
Indeno (1,2,3-cd) pyrene	0.0192	0.00500	"	0.0333		57.5	40-140			
Pyrene	0.0270	0.00500	"	0.0333		81.1	40-140			
1-Methylnaphthalene	0.0189	0.00500	"	0.0333		56.6	40-140			
2-Methylnaphthalene	0.0201	0.00500	"	0.0333		60.3	40-140			
Surrogate: 2-Methylnaphthalene-d10	0.0221		"	0.0333		66.2	40-140			
Surrogate: Fluoranthene-d10	0.0296		"	0.0333		88.9	40-140			

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Bruntz G16-23 Flowline
Project Number: UWRWE-A3660-ABN
Project Manager: Mike Medina

Reported:
05/05/25 09:20

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BIC1739 - EPA 5030 Soil MS

Matrix Spike (BIC1739-MS1)	Source: 2503343-01			Prepared: 03/28/25 Analyzed: 05/01/25						
Acenaphthene	0.0255	0.00500	mg/kg	0.0333	ND	76.4	40-140			
Anthracene	0.0250	0.00500	"	0.0333	ND	75.1	40-140			
Benzo (a) anthracene	0.0275	0.00500	"	0.0333	ND	82.5	40-140			
Benzo (a) pyrene	0.0250	0.00500	"	0.0333	ND	75.1	40-140			
Benzo (b) fluoranthene	0.0251	0.00500	"	0.0333	ND	75.3	40-140			
Benzo (k) fluoranthene	0.0239	0.00500	"	0.0333	ND	71.6	40-140			
Chrysene	0.0276	0.00500	"	0.0333	ND	82.8	40-140			
Dibenz (a,h) anthracene	0.0260	0.00500	"	0.0333	ND	78.1	40-140			
Fluoranthene	0.0244	0.00500	"	0.0333	0.00540	56.9	40-140			
Fluorene	0.0346	0.00500	"	0.0333	0.00506	88.6	40-140			
Indeno (1,2,3-cd) pyrene	0.0197	0.00500	"	0.0333	ND	59.0	40-140			
Pyrene	0.0277	0.00500	"	0.0333	ND	83.2	40-140			
1-Methylnaphthalene	0.0239	0.00500	"	0.0333	ND	71.8	40-140			
2-Methylnaphthalene	0.0245	0.00500	"	0.0333	ND	73.6	40-140			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0243</i>		<i>"</i>	<i>0.0333</i>		<i>72.8</i>	<i>40-140</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0271</i>		<i>"</i>	<i>0.0333</i>		<i>81.3</i>	<i>40-140</i>			

Matrix Spike Dup (BIC1739-MSD1)	Source: 2503343-01			Prepared: 03/28/25 Analyzed: 05/01/25						
Acenaphthene	0.0244	0.00500	mg/kg	0.0333	ND	73.1	40-140	4.50	30	
Anthracene	0.0240	0.00500	"	0.0333	ND	71.9	40-140	4.31	30	
Benzo (a) anthracene	0.0275	0.00500	"	0.0333	ND	82.6	40-140	0.121	30	
Benzo (a) pyrene	0.0244	0.00500	"	0.0333	ND	73.2	40-140	2.57	30	
Benzo (b) fluoranthene	0.0243	0.00500	"	0.0333	ND	72.9	40-140	3.23	30	
Benzo (k) fluoranthene	0.0227	0.00500	"	0.0333	ND	68.1	40-140	4.95	30	
Chrysene	0.0267	0.00500	"	0.0333	ND	80.0	40-140	3.51	30	
Dibenz (a,h) anthracene	0.0250	0.00500	"	0.0333	ND	74.9	40-140	4.22	30	
Fluoranthene	0.0245	0.00500	"	0.0333	0.00540	57.2	40-140	0.445	30	
Fluorene	0.0334	0.00500	"	0.0333	0.00506	85.0	40-140	3.55	30	
Indeno (1,2,3-cd) pyrene	0.0189	0.00500	"	0.0333	ND	56.8	40-140	3.89	30	
Pyrene	0.0282	0.00500	"	0.0333	ND	84.5	40-140	1.55	30	
1-Methylnaphthalene	0.0238	0.00500	"	0.0333	ND	71.5	40-140	0.395	30	
2-Methylnaphthalene	0.0256	0.00500	"	0.0333	ND	76.8	40-140	4.14	30	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0210</i>		<i>"</i>	<i>0.0333</i>		<i>62.9</i>	<i>40-140</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0256</i>		<i>"</i>	<i>0.0333</i>		<i>76.9</i>	<i>40-140</i>			

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Bruntz G16-23 Flowline
Project Number: UWRWE-A3660-ABN
Project Manager: Mike Medina

Reported:
05/05/25 09:20

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

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

Batch BIC1727 - EPA 3050B

Blank (BIC1727-BLK1)

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

Boron ND 2.00 mg/L

LCS (BIC1727-BS1)

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

Boron 4.88 2.00 mg/L 5.00 97.6 80-120

Duplicate (BIC1727-DUP1)

Source: 2503370-01

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

Boron 0.294 2.00 mg/L 0.307 4.45 20

Matrix Spike (BIC1727-MS1)

Source: 2503370-01

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

Boron 5.08 2.00 mg/L 4.99 0.307 95.7 75-125

Matrix Spike Dup (BIC1727-MSD1)

Source: 2503370-01

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

Boron 5.11 2.00 mg/L 4.99 0.307 96.4 75-125 0.678 25

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Bruntz G16-23 Flowline
Project Number: UWRWE-A3660-ABN
Project Manager: Mike Medina

Reported:
05/05/25 09:20

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 BIC1716 - EPA 3050B

Blank (BIC1716-BLK1)

Prepared & Analyzed: 03/28/25

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 (BIC1716-BS1)

Prepared: 03/28/25 Analyzed: 03/29/25

Arsenic	40.4	0.200	mg/kg wet	41.3	97.8	80-120
Barium	43.5	0.400	"	41.3	105	80-120
Cadmium	2.11	0.200	"	2.07	102	80-120
Copper	45.0	0.400	"	41.3	109	80-120
Lead	21.2	0.200	"	20.7	103	80-120
Nickel	44.3	0.400	"	41.3	107	80-120
Silver	2.07	0.0200	"	2.07	100	80-120
Zinc	44.6	0.400	"	41.3	108	80-120
Selenium	4.01	0.260	"	4.13	97.1	80-120

Duplicate (BIC1716-DUP1)

Source: 2503108-01

Prepared & Analyzed: 03/28/25

Arsenic	8.46	0.200	mg/kg dry	8.03	5.23	20	
Barium	72.5	0.400	"	79.2	8.79	20	
Cadmium	0.378	0.200	"	0.371	1.89	20	
Copper	12.8	0.400	"	9.95	25.0	20	QR-04
Lead	19.4	0.200	"	14.2	30.7	20	QR-04
Nickel	6.16	0.400	"	5.95	3.43	20	
Silver	0.0682	0.0200	"	0.0628	8.33	20	
Zinc	27.4	0.400	"	25.6	6.67	20	
Selenium	0.387	0.260	"	0.310	22.0	20	QR-04

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4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Bruntz G16-23 Flowline

Project Number: UWRWE-A3660-ABN
Project Manager: Mike Medina

Reported:
05/05/25 09:20

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 BIC1716 - EPA 3050B

Matrix Spike (BIC1716-MS1)	Source: 2503108-01			Prepared & Analyzed: 03/28/25								
Arsenic	62.0	0.200	mg/kg dry	47.2	8.03	115	75-125					
Barium	142	0.400	"	47.2	79.2	134	75-125					QM-05
Cadmium	3.25	0.200	"	2.36	0.371	122	75-125					
Copper	44.4	0.400	"	47.2	9.95	73.0	75-125					QM-05
Lead	40.9	0.200	"	23.6	14.2	113	75-125					
Nickel	40.6	0.400	"	47.2	5.95	73.5	75-125					QM-05
Silver	2.86	0.0200	"	2.36	0.0628	119	75-125					
Zinc	62.9	0.400	"	47.2	25.6	79.1	75-125					
Selenium	5.48	0.260	"	4.72	0.310	110	75-125					

Matrix Spike Dup (BIC1716-MSD1)	Source: 2503108-01			Prepared & Analyzed: 03/28/25								
Arsenic	59.1	0.200	mg/kg dry	47.5	8.03	107	75-125	4.86	25			
Barium	127	0.400	"	47.5	79.2	101	75-125	11.3	25			
Cadmium	2.98	0.200	"	2.38	0.371	110	75-125	8.70	25			
Copper	37.9	0.400	"	47.5	9.95	58.8	75-125	15.7	25			QM-05
Lead	38.1	0.200	"	23.8	14.2	101	75-125	6.90	25			
Nickel	35.0	0.400	"	47.5	5.95	61.2	75-125	14.8	25			QM-05
Silver	2.58	0.0200	"	2.38	0.0628	106	75-125	10.3	25			
Zinc	54.9	0.400	"	47.5	25.6	61.6	75-125	13.6	25			QM-05
Selenium	5.12	0.260	"	4.75	0.310	101	75-125	6.73	25			

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Bruntz G16-23 Flowline
Project Number: UWRWE-A3660-ABN
Project Manager: Mike Medina

Reported:
05/05/25 09:20

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 BIC1724 - 3060A Mod

Blank (BIC1724-BLK1)

Prepared & Analyzed: 03/28/25

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BIC1724-BS1)

Prepared & Analyzed: 03/28/25

Chromium, Hexavalent 25.0 0.30 mg/kg wet 25.0 100 80-120

Duplicate (BIC1724-DUP1)

Source: 2503331-01

Prepared & Analyzed: 03/28/25

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BIC1724-MS1)

Source: 2503331-01

Prepared & Analyzed: 03/28/25

Chromium, Hexavalent 30.4 0.30 mg/kg dry 28.6 ND 106 75-125

Matrix Spike Dup (BIC1724-MSD1)

Source: 2503331-01

Prepared & Analyzed: 03/28/25

Chromium, Hexavalent 31.7 0.30 mg/kg dry 29.7 ND 107 75-125 4.07 20

Summit Scientific

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 4725 Independence St.
 Wheat Ridge CO, 80033

Project: Noble - Bruntz G16-23 Flowline

Project Number: UWRWE-A3660-ABN
 Project Manager: Mike Medina

Reported:
 05/05/25 09:20

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

Summit Scientific

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

Batch BIC1710 - General Preparation

Blank (BIC1710-BLK1)

Prepared: 03/27/25 Analyzed: 03/29/25

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

LCS (BIC1710-BS1)

Prepared: 03/27/25 Analyzed: 03/28/25

Calcium	5.30	0.0500	mg/L wet	5.00	106	70-130				
Magnesium	5.08	0.0500	"	5.00	102	70-130				
Sodium	5.02	0.0500	"	5.00	100	70-130				

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Bruntz G16-23 Flowline
Project Number: UWRWE-A3660-ABN
Project Manager: Mike Medina

Reported:
05/05/25 09:20

Anions by EPA Method 300.0 - Quality Control
Summit Scientific

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

Batch BIC1684 - General Preparation

Blank (BIC1684-BLK1)

Prepared: 03/27/25 Analyzed: 04/06/25

Chloride	ND	0.0600	mg/L							
Sulfate	ND	0.300	"							

LCS (BIC1684-BS1)

Prepared: 03/27/25 Analyzed: 04/06/25

Chloride	2.93	0.0600	mg/L	3.00	97.6	90-110				
Sulfate	14.7	0.300	"	15.0	98.2	90-110				

Duplicate (BIC1684-DUP1)

Source: 2503352-01

Prepared: 03/27/25 Analyzed: 04/06/25

Chloride	162	0.0600	mg/L	188			14.9	20		
Sulfate	1650	0.300	"	1910			14.5	20		

Matrix Spike (BIC1684-MS1)

Source: 2503352-01

Prepared: 03/27/25 Analyzed: 04/06/25

Chloride	265	0.0600	mg/L	150	188	51.4	80-120			QM-05
Sulfate	2170	0.300	"	750	1910	34.9	80-120			QM-05

Summit Scientific

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Tasman Geosciences
 4725 Independence St.
 Wheat Ridge CO, 80033

Project: Noble - Bruntz G16-23 Flowline

Project Number: UWRWE-A3660-ABN
 Project Manager: Mike Medina

Reported:
 05/05/25 09:20

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 BIC1722 - General Preparation

Duplicate (BIC1722-DUP1)

Source: 2503319-01

Prepared & Analyzed: 03/28/25

% Solids	81.7		%		82.1			0.496		20	
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Summit Scientific

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Tasman Geosciences
 4725 Independence St.
 Wheat Ridge CO, 80033

Project: Noble - Bruntz G16-23 Flowline
 Project Number: UWRWE-A3660-ABN
 Project Manager: Mike Medina

Reported:
 05/05/25 09:20

Total Dissolved Solids by SM2540C - Quality Control
Summit Scientific

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

Batch BIC1736 - General Preparation

Blank (BIC1736-BLK1)

Prepared: 03/28/25 Analyzed: 04/02/25

Total Dissolved Solids ND 10.0 mg/L

Duplicate (BIC1736-DUP1)

Source: 2503385-01

Prepared: 03/28/25 Analyzed: 04/02/25

Total Dissolved Solids 178 10.0 mg/L 192 7.57 20

Summit Scientific

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Tasman Geosciences
 4725 Independence St.
 Wheat Ridge CO, 80033

Project: Noble - Bruntz G16-23 Flowline
 Project Number: UWRWE-A3660-ABN
 Project Manager: Mike Medina

Reported:
 05/05/25 09:20

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 BIC1713 - General Preparation

Blank (BIC1713-BLK1)

Prepared: 03/27/25 Analyzed: 03/28/25

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BIC1713-BS1)

Prepared: 03/27/25 Analyzed: 03/28/25

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

Duplicate (BIC1713-DUP1)

Source: 2503014-01

Prepared: 03/27/25 Analyzed: 03/28/25

Specific Conductance (EC) 1.62 0.0100 mmhos/cm 1.64 1.28 20

Summit Scientific

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Tasman Geosciences
 4725 Independence St.
 Wheat Ridge CO, 80033

Project: Noble - Bruntz G16-23 Flowline

Project Number: UWRWE-A3660-ABN
 Project Manager: Mike Medina

Reported:
 05/05/25 09:20

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 BIC1712 - General Preparation

LCS (BIC1712-BS1)

Prepared: 03/27/25 Analyzed: 03/28/25

pH	9.42	pH Units	9.18	103	95-105
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Duplicate (BIC1712-DUP1)

Source: 2503014-01

Prepared: 03/27/25 Analyzed: 03/28/25

pH	8.38	pH Units	8.37	0.119	20
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Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Bruntz G16-23 Flowline

Project Number: UWRWE-A3660-ABN
Project Manager: Mike Medina

Reported:
05/05/25 09:20

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.
- 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.
- 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