

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

February 26, 2025

Bryce Goldade

Tasman Geosciences

6855 W. 119th Ave.

Broomfield, CO 80020

RE: Noble - Jepsen T3N-R65W-S2 L04 Tank Battery

Work Order #2501333

Enclosed are the results of analyses for samples received by Summit Scientific on 01/23/25 17:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Amanda Stilwell For Paul Shrewsbury

President



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

Project: Noble - Jepsen T3N-R65W-S2 L04 Tank Battery

Project Number: UWRWE-A3069-ABN
Project Manager: Bryce Goldade

Reported:
02/26/25 14:48

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PWV01-B@4'	2501333-01	Soil	01/23/25 12:50	01/23/25 17:40
PWV01-N@2.5'	2501333-02	Soil	01/23/25 12:58	01/23/25 17:40
SEP01-FL@3.5'	2501333-06	Soil	01/23/25 13:33	01/23/25 17:40
SEP01-DL@3.5'	2501333-07	Soil	01/23/25 13:37	01/23/25 17:40

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		Send Data To:	Send Invoice To:
Client: Noble/Tasman	Project Manager: Bryce Goldade		Company: Noble
Address: 6855 W. 119th Ave.	E-Mail: tas-chevron-4@tasman-geo.com		Project Name/Location: <i>Jepsen T3N-R65W-52 L04</i>
City/State/Zip: Broomfield/CO/ 80020	E-Mail: RBUEUF27@chevron.com		AFE#: <i>UWRWE-A3069-ABN</i>
Phone: 720-481-5294	Project Name: <i>Jepsen T3N-R65W-52 L04 TANK</i>		PO/Billing Codes:
Sampler Name: Deric Bell	Project Number:		Contact: <i>Miguel Barron</i>

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	Pwvol-B @ 4'	1/23/25	1250	3			X			X			X	X	X	X	X	X		SAR, EC, pH by saturated paste	
2	Pwvol-N @ 2.5'		1258				X			X			X	X	X	X	X	X			
3	Pwvol-E @ 2.5'		1255				X			X			X	X	X	X	X	X			
4	Pwvol-W @ 2.5'		1253				X			X			X	X	X	X	X	X			
5	Pwvol-S @ 2.5'		1257				X			X			X	X	X	X	X	X			
6	SePol-FL @ 3.5'		1333				X			X			X	X	X	X	X	X			
7	SePol-DL @ 3.5'		1337				X			X			X	X	X	X	X	X			
8																					
9																					
10																					
11																					
12																					
13																					
14																					
15																					

Relinquished by: <i>[Signature]</i>	Date/Time: 1/23/25 1644	Received by: Tasman Lock Box	Date/Time: 1/23/25 1644	TAT Business Days	Field DO	Notes: Pwvol-B@4', Pwvol-N@2.5' Same Day TAT for Base organics all else Ran on standard
Relinquished by: <i>Tasman Lock Box</i>	Date/Time: 12325 1740	Received by: <i>[Signature]</i>	Date/Time: 12325 1740	Same Day <input checked="" type="checkbox"/>	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Temperature Upon Receipt: 4.9	Corrected Temperature: 6	IR gun #: 4	HNO3 lot #: _____	Standard <input checked="" type="checkbox"/>	Field Turb.	



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Project Manager: Bryce Goldade

Reported:
02/26/25 14:48

PWV01-B@4'
2501333-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/23/25 12:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	0.43	0.020	mg/kg	10	BIA1106	01/23/25	01/23/25	EPA 8260B	
Toluene	ND	0.050	"	"	"	"	"	"	R-05
Ethylbenzene	1.3	0.050	"	"	"	"	"	"	
Xylenes (total)	25	1.0	"	100	"	"	01/24/25	"	
1,2,4-Trimethylbenzene	7.1	0.050	"	10	"	"	01/23/25	"	E
1,3,5-Trimethylbenzene	5.1	0.050	"	"	"	"	"	"	E
Naphthalene	ND	0.038	"	"	"	"	"	"	R-05
Gasoline Range Hydrocarbons	310	5.0	"	"	"	"	"	"	

Date Sampled: **01/23/25 12:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0410	103 %	50-150	"	"	"	"	"	
Surrogate: Toluene-d8	0.0367	91.7 %	50-150	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0488	122 %	50-150	"	"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/23/25 12:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	190	50	mg/kg	1	BIA1105	01/23/25	01/23/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/23/25 12:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	7.81	62.5 %	30-150	"	"	"	"	"	

PAH by EPA Method 8270D SIM

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Project Manager: Bryce Goldade

Reported:
02/26/25 14:48

PWV01-B@4'
2501333-01 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **01/23/25 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIA1478	01/31/25	02/06/25	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	0.0243	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	0.00684	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	0.474	0.00500	"	"	"	"	"	"	E
2-Methylnaphthalene	0.530	0.00500	"	"	"	"	"	"	E

Date Sampled: **01/23/25 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0175	52.5 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0348	104 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/23/25 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIA1135	01/24/25	01/25/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/23/25 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Manager: Bryce Goldade

Reported:
02/26/25 14:48

PWV01-B@4'
2501333-01 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	1.34	0.200	mg/kg dry	1	BIA1129	01/24/25	01/25/25	EPA 6020B
Barium	39.6	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	3.59	0.400	"	"	"	"	"	"
Lead	4.80	0.200	"	"	"	"	"	"
Nickel	2.93	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	14.6	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/23/25 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA1116	01/24/25	01/24/25	EPA 7196A	

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

Date Sampled: **01/23/25 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	87.2	0.0500	mg/L dry	1	BIB0785	02/14/25	02/24/25	EPA 6020B	
Magnesium	11.1	0.0500	"	"	"	"	"	"	
Sodium	24.1	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/23/25 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.646	0.00100	units	1	BIB1417	02/25/25	02/25/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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PWV01-B@4'
2501333-01 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/23/25 12:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	87.7			%	1	BIA1125	01/24/25	01/24/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/23/25 12:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.590	0.0100		mmhos/cm	1	BIB0787	02/14/25	02/19/25	EPA 120.1	

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

Date Sampled: **01/23/25 12:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.54			pH Units	1	BIB0786	02/14/25	02/19/25	EPA 9045D	

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Project Manager: Bryce Goldade

Reported:
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PWV01-N@2.5'
2501333-02 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/23/25 12:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.62	0.0020	mg/kg	1	BIA1106	01/23/25	01/23/25	EPA 8260B	E
Toluene	0.023	0.0050	"	"	"	"	"	"	
Ethylbenzene	7.1	0.50	"	100	"	"	01/24/25	"	
Xylenes (total)	0.061	0.010	"	1	"	"	01/23/25	"	
1,2,4-Trimethylbenzene	41	0.50	"	100	"	"	01/24/25	"	
1,3,5-Trimethylbenzene	31	0.50	"	"	"	"	"	"	
Naphthalene	0.27	0.0038	"	1	"	"	01/23/25	"	
Gasoline Range Hydrocarbons	1600	50	"	100	"	"	01/24/25	"	

Date Sampled: **01/23/25 12:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0283	70.6 %	50-150		"	"	01/23/25	"	
Surrogate: Toluene-d8	0.362	905 %	50-150		"	"	"	"	S-02
Surrogate: 4-Bromofluorobenzene	0.107	268 %	50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/23/25 12:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	94	50	mg/kg	1	BIA1105	01/23/25	01/23/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/23/25 12:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	7.09	56.7 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Reported:
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PWV01-N@2.5'
2501333-02 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **01/23/25 12:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIA1478	01/31/25	02/06/25	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	0.00966	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	0.327	0.00500	"	"	"	"	"	"	E
2-Methylnaphthalene	0.531	0.00500	"	"	"	"	"	"	E

Date Sampled: **01/23/25 12:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0240	72.1 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0214	64.3 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/23/25 12:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIA1135	01/24/25	01/25/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/23/25 12:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Manager: Bryce Goldade

Reported:
02/26/25 14:48

PWV01-N@2.5'
2501333-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	1.18	0.200	mg/kg dry	1	BIA1130	01/24/25	01/25/25	EPA 6020B
Barium	53.2	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	4.49	0.400	"	"	"	"	"	"
Lead	5.38	0.200	"	"	"	"	"	"
Nickel	2.88	0.400	"	"	"	"	"	"
Silver	0.0354	0.0200	"	"	"	"	"	"
Zinc	15.8	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/23/25 12:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA1116	01/24/25	01/24/25	EPA 7196A	

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

Date Sampled: **01/23/25 12:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	72.9	0.0500	mg/L dry	1	BIB0785	02/14/25	02/24/25	EPA 6020B	
Magnesium	7.04	0.0500	"	"	"	"	"	"	
Sodium	13.5	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/23/25 12:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.404	0.00100	units	1	BIB1417	02/25/25	02/25/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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PWV01-N@2.5'
2501333-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/23/25 12:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.9		%	1	BIA1125	01/24/25	01/24/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/23/25 12:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.436	0.0100	mmhos/cm	1	BIB0787	02/14/25	02/19/25	EPA 120.1	

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

Date Sampled: **01/23/25 12:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.37		pH Units	1	BIB0786	02/14/25	02/19/25	EPA 9045D	

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Project Manager: Bryce Goldade

Reported:
02/26/25 14:48

SEP01-FL@3.5'
2501333-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/23/25 13:33**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BIA1244	01/28/25	02/03/25	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: **01/23/25 13:33**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0477	119 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0423	106 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0398	99.6 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/23/25 13:33**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BIA1250	01/28/25	02/05/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/23/25 13:33**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	6.54	52.3 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project: Noble - Jepsen T3N-R65W-S2 L04 Tank Battery

Project Number: UWRWE-A3069-ABN
Project Manager: Bryce Goldade

Reported:
02/26/25 14:48

SEP01-FL@3.5'
2501333-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/23/25 13:33**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIA1478	01/31/25	02/06/25	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: **01/23/25 13:33**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0295	88.6 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0271	81.4 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/23/25 13:33**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIA1135	01/24/25	01/25/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/23/25 13:33**

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

Project: Noble - Jepsen T3N-R65W-S2 L04 Tank Battery
Project Number: UWRWE-A3069-ABN
Project Manager: Bryce Goldade

Reported:
02/26/25 14:48

SEP01-FL@3.5'
2501333-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.23	0.200	mg/kg dry	1	BIA1130	01/24/25	01/25/25	EPA 6020B	
Barium	34.6	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.78	0.400	"	"	"	"	"	"	
Lead	3.64	0.200	"	"	"	"	"	"	
Nickel	2.57	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	9.95	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/23/25 13:33**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA1116	01/24/25	01/24/25	EPA 7196A	

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

Date Sampled: **01/23/25 13:33**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	199	0.0500	mg/L dry	1	BIB0785	02/14/25	02/24/25	EPA 6020B	
Magnesium	26.3	0.0500	"	"	"	"	"	"	
Sodium	1.47	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/23/25 13:33**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0260	0.00100	units	1	BIB1417	02/25/25	02/25/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Tasman Geosciences
6855 W. 119th Ave.
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Project: Noble - Jepsen T3N-R65W-S2 L04 Tank Battery
Project Number: UWRWE-A3069-ABN
Project Manager: Bryce Goldade

Reported:
02/26/25 14:48

SEP01-FL@3.5'
2501333-06 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/23/25 13:33**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	89.7			%	1	BIA1125	01/24/25	01/24/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/23/25 13:33**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.177	0.0100		mmhos/cm	1	BIB0787	02/14/25	02/19/25	EPA 120.1	

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

Date Sampled: **01/23/25 13:33**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.59			pH Units	1	BIB0786	02/14/25	02/19/25	EPA 9045D	

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

Project: Noble - Jepsen T3N-R65W-S2 L04 Tank Battery

Project Number: UWRWE-A3069-ABN
Project Manager: Bryce Goldade

Reported:
02/26/25 14:48

SEP01-DL@3.5'
2501333-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/23/25 13:37**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BIA1244	01/28/25	02/03/25	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: **01/23/25 13:37**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0437	109 %	50-150	"	"	"	"	"	
Surrogate: Toluene-d8	0.0410	103 %	50-150	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0397	99.3 %	50-150	"	"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/23/25 13:37**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BIA1250	01/28/25	01/29/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/23/25 13:37**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	11.6	93.0 %	30-150	"	"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Noble - Jepsen T3N-R65W-S2 L04 Tank Battery
Project Number: UWRWE-A3069-ABN
Project Manager: Bryce Goldade

Reported:
02/26/25 14:48

SEP01-DL@3.5'
2501333-07 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/23/25 13:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIA1478	01/31/25	02/06/25	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: **01/23/25 13:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0253	75.9 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0236	70.7 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/23/25 13:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIA1135	01/24/25	01/25/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/23/25 13:37**

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

Project: Noble - Jepsen T3N-R65W-S2 L04 Tank Battery
Project Number: UWRWE-A3069-ABN
Project Manager: Bryce Goldade

Reported:
02/26/25 14:48

SEP01-DL@3.5'
2501333-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.01	0.200	mg/kg dry	1	BIA1130	01/24/25	01/25/25	EPA 6020B	
Barium	31.9	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.32	0.400	"	"	"	"	"	"	
Lead	3.04	0.200	"	"	"	"	"	"	
Nickel	2.30	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	8.53	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/23/25 13:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA1116	01/24/25	01/24/25	EPA 7196A	

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

Date Sampled: **01/23/25 13:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	111	0.0500	mg/L dry	1	BIB0785	02/14/25	02/24/25	EPA 6020B	
Magnesium	13.9	0.0500	"	"	"	"	"	"	
Sodium	2.85	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/23/25 13:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0678	0.00100	units	1	BIB1417	02/25/25	02/25/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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6855 W. 119th Ave.
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Project: Noble - Jepsen T3N-R65W-S2 L04 Tank Battery
Project Number: UWRWE-A3069-ABN
Project Manager: Bryce Goldade

Reported:
02/26/25 14:48

SEP01-DL@3.5'
2501333-07 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/23/25 13:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.9		%	1	BIA1125	01/24/25	01/24/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/23/25 13:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.129	0.0100	mmhos/cm	1	BIB0787	02/14/25	02/19/25	EPA 120.1	

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

Date Sampled: **01/23/25 13:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.62		pH Units	1	BIB0786	02/14/25	02/19/25	EPA 9045D	

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Tasman Geosciences
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Broomfield CO, 80020

Project: Noble - Jepsen T3N-R65W-S2 L04 Tank Battery

Project Number: UWRWE-A3069-ABN
Project Manager: Bryce Goldade

Reported:
02/26/25 14:48

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 BIA1106 - EPA 5030 Soil MS

Blank (BIA1106-BLK1)

Prepared: 01/23/25 Analyzed: 01/24/25

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>	0.0445		"	0.0400		111	50-150			
<i>Surrogate: Toluene-d8</i>	0.0400		"	0.0400		100	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0410		"	0.0400		102	50-150			

LCS (BIA1106-BS1)

Prepared: 01/23/25 Analyzed: 01/24/25

Benzene	0.106	0.0020	mg/kg	0.100		106	70-130			
Toluene	0.104	0.0050	"	0.100		104	70-130			
Ethylbenzene	0.108	0.0050	"	0.100		108	70-130			
m,p-Xylene	0.213	0.010	"	0.200		107	70-130			
o-Xylene	0.103	0.0050	"	0.100		103	70-130			
1,2,4-Trimethylbenzene	0.102	0.0050	"	0.100		102	70-130			
1,3,5-Trimethylbenzene	0.101	0.0050	"	0.100		101	70-130			
Naphthalene	0.107	0.0038	"	0.100		107	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0424		"	0.0400		106	50-150			
<i>Surrogate: Toluene-d8</i>	0.0394		"	0.0400		98.5	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0399		"	0.0400		99.8	50-150			

Matrix Spike (BIA1106-MS1)

Source: 2501325-01

Prepared: 01/23/25 Analyzed: 01/24/25

Benzene	0.107	0.0020	mg/kg	0.100	ND	107	70-130			
Toluene	0.105	0.0050	"	0.100	ND	105	70-130			
Ethylbenzene	0.100	0.0050	"	0.100	ND	100	70-130			
m,p-Xylene	0.199	0.010	"	0.200	ND	99.7	70-130			
o-Xylene	0.0972	0.0050	"	0.100	ND	97.2	70-130			
1,2,4-Trimethylbenzene	0.0948	0.0050	"	0.100	ND	94.8	70-130			
1,3,5-Trimethylbenzene	0.0953	0.0050	"	0.100	ND	95.3	70-130			
Naphthalene	0.104	0.0038	"	0.100	ND	104	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0473		"	0.0400		118	50-150			
<i>Surrogate: Toluene-d8</i>	0.0415		"	0.0400		104	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0412		"	0.0400		103	50-150			

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

Project: Noble - Jepsen T3N-R65W-S2 L04 Tank Battery

Project Number: UWRWE-A3069-ABN
Project Manager: Bryce Goldade

Reported:
02/26/25 14:48

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BIA1106 - EPA 5030 Soil MS

Matrix Spike Dup (BIA1106-MSD1)

Source: 2501325-01

Prepared: 01/23/25 Analyzed: 01/24/25

Benzene	0.107	0.0020	mg/kg	0.100	ND	107	70-130	0.420	30
Toluene	0.104	0.0050	"	0.100	ND	104	70-130	1.55	30
Ethylbenzene	0.104	0.0050	"	0.100	ND	104	70-130	3.24	30
m,p-Xylene	0.204	0.010	"	0.200	ND	102	70-130	2.25	30
o-Xylene	0.0992	0.0050	"	0.100	ND	99.2	70-130	1.99	30
1,2,4-Trimethylbenzene	0.0975	0.0050	"	0.100	ND	97.5	70-130	2.84	30
1,3,5-Trimethylbenzene	0.0963	0.0050	"	0.100	ND	96.3	70-130	1.03	30
Naphthalene	0.101	0.0038	"	0.100	ND	101	70-130	2.48	30
Surrogate: 1,2-Dichloroethane-d4	0.0457		"	0.0400		114	50-150		
Surrogate: Toluene-d8	0.0410		"	0.0400		103	50-150		
Surrogate: 4-Bromofluorobenzene	0.0412		"	0.0400		103	50-150		

Batch BIA1244 - EPA 5030 Soil MS

Blank (BIA1244-BLK1)

Prepared: 01/28/25 Analyzed: 02/03/25

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	0.0425		"	0.0400		106	50-150		
Surrogate: Toluene-d8	0.0388		"	0.0400		97.1	50-150		
Surrogate: 4-Bromofluorobenzene	0.0399		"	0.0400		99.8	50-150		

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Jepsen T3N-R65W-S2 L04 Tank Battery

Project Number: UWRWE-A3069-ABN
Project Manager: Bryce Goldade

Reported:
02/26/25 14:48

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 BIA1244 - EPA 5030 Soil MS

LCS (BIA1244-BS1)

Prepared: 01/28/25 Analyzed: 02/03/25

Benzene	0.0960	0.0020	mg/kg	0.100		96.0	70-130			
Toluene	0.0939	0.0050	"	0.100		93.9	70-130			
Ethylbenzene	0.0954	0.0050	"	0.100		95.4	70-130			
m,p-Xylene	0.192	0.010	"	0.200		95.8	70-130			
o-Xylene	0.0984	0.0050	"	0.100		98.4	70-130			
1,2,4-Trimethylbenzene	0.0939	0.0050	"	0.100		93.9	70-130			
1,3,5-Trimethylbenzene	0.0918	0.0050	"	0.100		91.8	70-130			
Naphthalene	0.106	0.0038	"	0.100		106	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0411</i>		<i>"</i>	<i>0.0400</i>		<i>103</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0393</i>		<i>"</i>	<i>0.0400</i>		<i>98.3</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0402</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>50-150</i>			

Matrix Spike (BIA1244-MS1)

Source: 2501296-01

Prepared: 01/28/25 Analyzed: 02/03/25

Benzene	0.0758	0.0020	mg/kg	0.100	ND	75.8	70-130			
Toluene	0.0794	0.0050	"	0.100	ND	79.4	70-130			
Ethylbenzene	0.0907	0.0050	"	0.100	ND	90.7	70-130			
m,p-Xylene	0.173	0.010	"	0.200	ND	86.3	70-130			
o-Xylene	0.0874	0.0050	"	0.100	ND	87.4	70-130			
1,2,4-Trimethylbenzene	0.0841	0.0050	"	0.100	ND	84.1	70-130			
1,3,5-Trimethylbenzene	0.0899	0.0050	"	0.100	ND	89.9	70-130			
Naphthalene	0.0208	0.0038	"	0.100	ND	20.8	70-130			QM-05
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0454</i>		<i>"</i>	<i>0.0400</i>		<i>114</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>0.0410</i>		<i>"</i>	<i>0.0400</i>		<i>103</i>	<i>50-150</i>			

Matrix Spike Dup (BIA1244-MSD1)

Source: 2501296-01

Prepared: 01/28/25 Analyzed: 02/03/25

Benzene	0.0768	0.0020	mg/kg	0.100	ND	76.8	70-130	1.22	30	
Toluene	0.0793	0.0050	"	0.100	ND	79.3	70-130	0.113	30	
Ethylbenzene	0.0892	0.0050	"	0.100	ND	89.2	70-130	1.60	30	
m,p-Xylene	0.170	0.010	"	0.200	ND	85.2	70-130	1.31	30	
o-Xylene	0.0870	0.0050	"	0.100	ND	87.0	70-130	0.447	30	
1,2,4-Trimethylbenzene	0.0830	0.0050	"	0.100	ND	83.0	70-130	1.26	30	
1,3,5-Trimethylbenzene	0.0884	0.0050	"	0.100	ND	88.4	70-130	1.62	30	
Naphthalene	0.0183	0.0038	"	0.100	ND	18.3	70-130	12.9	30	QM-05
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0429</i>		<i>"</i>	<i>0.0400</i>		<i>107</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0401</i>		<i>"</i>	<i>0.0400</i>		<i>100</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0406</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>50-150</i>			

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

Project: Noble - Jepsen T3N-R65W-S2 L04 Tank Battery
Project Number: UWRWE-A3069-ABN
Project Manager: Bryce Goldade

Reported:
02/26/25 14:48

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 BIA1105 - EPA 3550A

Blank (BIA1105-BLK1)

Prepared: 01/23/25 Analyzed: 01/24/25

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	10.6		"	12.5		85.1	30-150				

LCS (BIA1105-BS1)

Prepared: 01/23/25 Analyzed: 01/24/25

C10-C28 (DRO)	507	50	mg/kg	500		101	70-130				
Surrogate: <i>o</i> -Terphenyl	9.50		"	12.5		76.0	30-150				

Matrix Spike (BIA1105-MS1)

Source: 2501325-01

Prepared: 01/23/25 Analyzed: 01/24/25

C10-C28 (DRO)	479	50	mg/kg	500	23.1	91.2	70-130				
Surrogate: <i>o</i> -Terphenyl	12.5		"	12.5		99.7	30-150				

Matrix Spike Dup (BIA1105-MSD1)

Source: 2501325-01

Prepared: 01/23/25 Analyzed: 01/24/25

C10-C28 (DRO)	415	50	mg/kg	500	23.1	78.4	70-130	14.3	20		
Surrogate: <i>o</i> -Terphenyl	8.36		"	12.5		66.9	30-150				

Batch BIA1250 - EPA 3550A

Blank (BIA1250-BLK1)

Prepared & Analyzed: 01/28/25

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	16.6		"	12.5		133	30-150				

LCS (BIA1250-BS1)

Prepared & Analyzed: 01/28/25

C10-C28 (DRO)	440	50	mg/kg	500		88.1	70-130				
Surrogate: <i>o</i> -Terphenyl	15.3		"	12.5		122	30-150				

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Project: Noble - Jepsen T3N-R65W-S2 L04 Tank Battery
Project Number: UWRWE-A3069-ABN
Project Manager: Bryce Goldade

Reported:
02/26/25 14:48

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BIA1250 - EPA 3550A

Matrix Spike (BIA1250-MS1)		Source: 2501296-01			Prepared & Analyzed: 01/28/25						
C10-C28 (DRO)	420	50	mg/kg	500	6.16	82.8	70-130				
Surrogate: <i>o</i> -Terphenyl	13.0		"	12.5		104	30-150				
Matrix Spike Dup (BIA1250-MSD1)		Source: 2501296-01			Prepared & Analyzed: 01/28/25						
C10-C28 (DRO)	435	50	mg/kg	500	6.16	85.8	70-130	3.56	20		
Surrogate: <i>o</i> -Terphenyl	14.6		"	12.5		117	30-150				

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Project: Noble - Jepsen T3N-R65W-S2 L04 Tank Battery
Project Number: UWRWE-A3069-ABN
Project Manager: Bryce Goldade

Reported:
02/26/25 14:48

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BIA1478 - EPA 5030 Soil MS

Blank (BIA1478-BLK1)

Prepared: 01/31/25 Analyzed: 02/05/25

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	0.0256		"	0.0333		76.8	40-140			
Surrogate: Fluoranthene-d10	0.0256		"	0.0333		76.8	40-140			

LCS (BIA1478-BS1)

Prepared: 01/31/25 Analyzed: 02/05/25

Acenaphthene	0.0207	0.00500	mg/kg	0.0333		62.1	40-140			
Anthracene	0.0242	0.00500	"	0.0333		72.5	40-140			
Benzo (a) anthracene	0.0264	0.00500	"	0.0333		79.1	40-140			
Benzo (a) pyrene	0.0233	0.00500	"	0.0333		69.8	40-140			
Benzo (b) fluoranthene	0.0242	0.00500	"	0.0333		72.5	40-140			
Benzo (k) fluoranthene	0.0199	0.00500	"	0.0333		59.6	40-140			
Chrysene	0.0221	0.00500	"	0.0333		66.2	40-140			
Dibenz (a,h) anthracene	0.0233	0.00500	"	0.0333		70.0	40-140			
Fluoranthene	0.0239	0.00500	"	0.0333		71.7	40-140			
Fluorene	0.0203	0.00500	"	0.0333		61.0	40-140			
Indeno (1,2,3-cd) pyrene	0.0180	0.00500	"	0.0333		54.0	40-140			
Pyrene	0.0232	0.00500	"	0.0333		69.5	40-140			
1-Methylnaphthalene	0.0225	0.00500	"	0.0333		67.5	40-140			
2-Methylnaphthalene	0.0232	0.00500	"	0.0333		69.5	40-140			
Surrogate: 2-Methylnaphthalene-d10	0.0250		"	0.0333		74.9	40-140			
Surrogate: Fluoranthene-d10	0.0253		"	0.0333		75.9	40-140			

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Project: Noble - Jepsen T3N-R65W-S2 L04 Tank Battery

Project Number: UWRWE-A3069-ABN
Project Manager: Bryce Goldade

Reported:
02/26/25 14:48

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 BIA1478 - EPA 5030 Soil MS

Matrix Spike (BIA1478-MS1)	Source: 2501323-01			Prepared: 01/31/25 Analyzed: 02/05/25						
Acenaphthene	0.0169	0.00500	mg/kg	0.0333	ND	50.8	40-140			
Anthracene	0.0239	0.00500	"	0.0333	ND	71.7	40-140			
Benzo (a) anthracene	0.0248	0.00500	"	0.0333	ND	74.3	40-140			
Benzo (a) pyrene	0.0220	0.00500	"	0.0333	ND	66.1	40-140			
Benzo (b) fluoranthene	0.0223	0.00500	"	0.0333	ND	66.9	40-140			
Benzo (k) fluoranthene	0.0180	0.00500	"	0.0333	ND	54.1	40-140			
Chrysene	0.0224	0.00500	"	0.0333	ND	67.3	40-140			
Dibenz (a,h) anthracene	0.0264	0.00500	"	0.0333	ND	79.1	40-140			
Fluoranthene	0.0261	0.00500	"	0.0333	ND	78.3	40-140			
Fluorene	0.0179	0.00500	"	0.0333	ND	53.6	40-140			
Indeno (1,2,3-cd) pyrene	0.0259	0.00500	"	0.0333	0.00545	61.5	40-140			
Pyrene	0.0220	0.00500	"	0.0333	ND	65.9	40-140			
1-Methylnaphthalene	0.0372	0.00500	"	0.0333	0.00651	92.2	40-140			
2-Methylnaphthalene	0.0485	0.00500	"	0.0333	0.0160	97.5	40-140			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0245</i>		<i>"</i>	<i>0.0333</i>		<i>73.6</i>	<i>40-140</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0255</i>		<i>"</i>	<i>0.0333</i>		<i>76.5</i>	<i>40-140</i>			

Matrix Spike Dup (BIA1478-MSD1)	Source: 2501323-01			Prepared: 01/31/25 Analyzed: 02/05/25						
Acenaphthene	0.0163	0.00500	mg/kg	0.0333	ND	49.0	40-140	3.73	30	
Anthracene	0.0238	0.00500	"	0.0333	ND	71.4	40-140	0.438	30	
Benzo (a) anthracene	0.0257	0.00500	"	0.0333	ND	77.0	40-140	3.64	30	
Benzo (a) pyrene	0.0230	0.00500	"	0.0333	ND	69.1	40-140	4.49	30	
Benzo (b) fluoranthene	0.0234	0.00500	"	0.0333	ND	70.2	40-140	4.76	30	
Benzo (k) fluoranthene	0.0185	0.00500	"	0.0333	ND	55.5	40-140	2.49	30	
Chrysene	0.0224	0.00500	"	0.0333	ND	67.2	40-140	0.131	30	
Dibenz (a,h) anthracene	0.0274	0.00500	"	0.0333	ND	82.3	40-140	4.00	30	
Fluoranthene	0.0264	0.00500	"	0.0333	ND	79.1	40-140	0.953	30	
Fluorene	0.0163	0.00500	"	0.0333	ND	48.9	40-140	9.14	30	
Indeno (1,2,3-cd) pyrene	0.0275	0.00500	"	0.0333	0.00545	66.1	40-140	5.75	30	
Pyrene	0.0226	0.00500	"	0.0333	ND	67.9	40-140	2.99	30	
1-Methylnaphthalene	0.0348	0.00500	"	0.0333	0.00651	84.9	40-140	6.69	30	
2-Methylnaphthalene	0.0442	0.00500	"	0.0333	0.0160	84.6	40-140	9.26	30	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0242</i>		<i>"</i>	<i>0.0333</i>		<i>72.6</i>	<i>40-140</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0262</i>		<i>"</i>	<i>0.0333</i>		<i>78.6</i>	<i>40-140</i>			

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

Project: Noble - Jepsen T3N-R65W-S2 L04 Tank Battery

Project Number: UWRWE-A3069-ABN
Project Manager: Bryce Goldade

Reported:
02/26/25 14:48

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

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

Batch BIA1135 - EPA 3050B

Blank (BIA1135-BLK1)

Prepared: 01/24/25 Analyzed: 01/25/25

Boron ND 2.00 mg/L

LCS (BIA1135-BS1)

Prepared: 01/24/25 Analyzed: 01/25/25

Boron 4.64 2.00 mg/L 5.00 92.8 80-120

Duplicate (BIA1135-DUP1)

Source: 2501333-01

Prepared: 01/24/25 Analyzed: 01/25/25

Boron 0.475 2.00 mg/L 0.509 6.94 20

Matrix Spike (BIA1135-MS1)

Source: 2501333-01

Prepared: 01/24/25 Analyzed: 01/25/25

Boron 5.14 2.00 mg/L 5.03 0.509 92.1 75-125

Matrix Spike Dup (BIA1135-MSD1)

Source: 2501333-01

Prepared: 01/24/25 Analyzed: 01/25/25

Boron 5.41 2.00 mg/L 5.03 0.509 97.6 75-125 5.21 25

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Jepsen T3N-R65W-S2 L04 Tank Battery
Project Number: UWRWE-A3069-ABN
Project Manager: Bryce Goldade

Reported:
02/26/25 14:48

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 BIA1129 - EPA 3050B

Blank (BIA1129-BLK1)

Prepared: 01/24/25 Analyzed: 01/25/25

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 (BIA1129-BS1)

Prepared: 01/24/25 Analyzed: 01/25/25

Arsenic	33.1	0.200	mg/kg wet	38.5	86.0	80-120
Barium	33.6	0.400	"	38.5	87.3	80-120
Cadmium	1.65	0.200	"	1.92	85.7	80-120
Copper	37.1	0.400	"	38.5	96.6	80-120
Lead	16.6	0.200	"	19.2	86.2	80-120
Nickel	36.7	0.400	"	38.5	95.5	80-120
Silver	1.66	0.0200	"	1.92	86.3	80-120
Zinc	36.7	0.400	"	38.5	95.4	80-120
Selenium	3.54	0.260	"	3.85	92.2	80-120

Duplicate (BIA1129-DUP1)

Source: 2501328-17

Prepared: 01/24/25 Analyzed: 01/25/25

Arsenic	4.00	0.200	mg/kg dry	4.03	0.883	20
Barium	143	0.400	"	126	12.6	20
Cadmium	0.247	0.200	"	0.241	2.13	20
Copper	6.85	0.400	"	6.61	3.60	20
Lead	10.2	0.200	"	10.1	0.203	20
Nickel	7.34	0.400	"	7.19	1.99	20
Silver	0.0516	0.0200	"	0.0477	7.87	20
Zinc	24.6	0.400	"	24.0	2.39	20
Selenium	ND	0.260	"	ND		20

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Project: Noble - Jepsen T3N-R65W-S2 L04 Tank Battery

Project Number: UWRWE-A3069-ABN
Project Manager: Bryce Goldade

Reported:
02/26/25 14:48

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 BIA1129 - EPA 3050B

Matrix Spike (BIA1129-MS1)

Source: 2501328-17

Prepared: 01/24/25 Analyzed: 01/25/25

Arsenic	41.5	0.200	mg/kg dry	47.4	4.03	78.9	75-125			
Barium	222	0.400	"	47.4	126	204	75-125			QM-05
Cadmium	2.27	0.200	"	2.37	0.241	85.4	75-125			
Copper	28.7	0.400	"	47.4	6.61	46.6	75-125			QM-05
Lead	29.7	0.200	"	23.7	10.1	82.4	75-125			
Nickel	29.3	0.400	"	47.4	7.19	46.7	75-125			QM-05
Silver	2.03	0.0200	"	2.37	0.0477	83.8	75-125			
Zinc	47.1	0.400	"	47.4	24.0	48.8	75-125			QM-05
Selenium	3.61	0.260	"	4.74	ND	76.2	75-125			

Matrix Spike Dup (BIA1129-MSD1)

Source: 2501328-17

Prepared: 01/24/25 Analyzed: 01/25/25

Arsenic	40.9	0.200	mg/kg dry	48.6	4.03	75.8	75-125	1.46	25	
Barium	148	0.400	"	48.6	126	45.9	75-125	40.2	25	QM-05
Cadmium	2.23	0.200	"	2.43	0.241	82.0	75-125	1.41	25	
Copper	29.2	0.400	"	48.6	6.61	46.6	75-125	1.89	25	QM-05
Lead	29.6	0.200	"	24.3	10.1	80.2	75-125	0.127	25	
Nickel	29.8	0.400	"	48.6	7.19	46.5	75-125	1.46	25	QM-05
Silver	1.99	0.0200	"	2.43	0.0477	79.8	75-125	2.38	25	
Zinc	49.4	0.400	"	48.6	24.0	52.4	75-125	4.80	25	QM-05
Selenium	3.78	0.260	"	4.86	ND	77.8	75-125	4.52	25	

Batch BIA1130 - EPA 3050B

Blank (BIA1130-BLK1)

Prepared: 01/24/25 Analyzed: 01/25/25

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	"							

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Project: Noble - Jepsen T3N-R65W-S2 L04 Tank Battery

Project Number: UWRWE-A3069-ABN
Project Manager: Bryce Goldade

Reported:
02/26/25 14:48

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 BIA1130 - EPA 3050B

LCS (BIA1130-BS1)

Prepared: 01/24/25 Analyzed: 01/25/25

Arsenic	34.4	0.200	mg/kg wet	41.3		83.3	80-120			
Barium	35.1	0.400	"	41.3		84.9	80-120			
Cadmium	1.74	0.200	"	2.07		84.2	80-120			
Copper	38.4	0.400	"	41.3		92.8	80-120			
Lead	17.4	0.200	"	20.7		84.4	80-120			
Nickel	38.0	0.400	"	41.3		91.9	80-120			
Silver	1.75	0.0200	"	2.07		84.9	80-120			
Zinc	38.0	0.400	"	41.3		91.9	80-120			
Selenium	3.74	0.260	"	4.13		90.4	80-120			

Duplicate (BIA1130-DUP1)

Source: 2501333-02

Prepared: 01/24/25 Analyzed: 01/25/25

Arsenic	1.06	0.200	mg/kg dry		1.18			11.2	20	
Barium	30.1	0.400	"		53.2			55.5	20	QR-04
Cadmium	0.128	0.200	"		0.119			6.78	20	
Copper	4.83	0.400	"		4.49			7.19	20	
Lead	5.96	0.200	"		5.38			10.2	20	
Nickel	2.39	0.400	"		2.88			18.6	20	
Silver	0.0176	0.0200	"		0.0354			67.1	20	QR-01
Zinc	13.7	0.400	"		15.8			14.7	20	
Selenium	0.180	0.260	"		ND			200	20	QR-01

Matrix Spike (BIA1130-MS1)

Source: 2501333-02

Prepared: 01/24/25 Analyzed: 01/25/25

Arsenic	38.5	0.200	mg/kg dry	46.7	1.18	79.8	75-125			
Barium	88.9	0.400	"	46.7	53.2	76.5	75-125			
Cadmium	2.09	0.200	"	2.34	0.119	84.4	75-125			
Copper	39.1	0.400	"	46.7	4.49	74.0	75-125			QM-05
Lead	25.0	0.200	"	23.4	5.38	83.9	75-125			
Nickel	37.3	0.400	"	46.7	2.88	73.5	75-125			QM-05
Silver	1.98	0.0200	"	2.34	0.0354	83.2	75-125			
Zinc	50.1	0.400	"	46.7	15.8	73.3	75-125			QM-05
Selenium	4.08	0.260	"	4.67	ND	87.3	75-125			

Summit Scientific

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

Project: Noble - Jepsen T3N-R65W-S2 L04 Tank Battery

Project Number: UWRWE-A3069-ABN
Project Manager: Bryce Goldade

Reported:
02/26/25 14:48

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 BIA1130 - EPA 3050B

Matrix Spike Dup (BIA1130-MSD1)	Source: 2501333-02			Prepared: 01/24/25 Analyzed: 01/25/25							
Arsenic	41.1	0.200	mg/kg dry	47.9	1.18	83.5	75-125	6.68	25		
Barium	74.0	0.400	"	47.9	53.2	43.5	75-125	18.3	25		QM-05
Cadmium	2.21	0.200	"	2.39	0.119	87.4	75-125	5.60	25		
Copper	44.3	0.400	"	47.9	4.49	83.1	75-125	12.6	25		
Lead	27.2	0.200	"	23.9	5.38	91.1	75-125	8.45	25		
Nickel	41.4	0.400	"	47.9	2.88	80.4	75-125	10.5	25		
Silver	2.06	0.0200	"	2.39	0.0354	84.4	75-125	3.79	25		
Zinc	54.9	0.400	"	47.9	15.8	81.5	75-125	9.09	25		
Selenium	4.14	0.260	"	4.79	ND	86.5	75-125	1.45	25		

Summit Scientific

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Tasman Geosciences
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Project: Noble - Jepsen T3N-R65W-S2 L04 Tank Battery
Project Number: UWRWE-A3069-ABN
Project Manager: Bryce Goldade

Reported:
02/26/25 14:48

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 BIA1116 - 3060A Mod

Blank (BIA1116-BLK1)

Prepared & Analyzed: 01/24/25

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BIA1116-BS1)

Prepared & Analyzed: 01/24/25

Chromium, Hexavalent 27.7 0.30 mg/kg wet 26.3 105 80-120

Duplicate (BIA1116-DUP1)

Source: 2501075-01

Prepared & Analyzed: 01/24/25

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BIA1116-MS1)

Source: 2501075-01

Prepared & Analyzed: 01/24/25

Chromium, Hexavalent 29.7 0.30 mg/kg dry 28.3 ND 105 75-125

Matrix Spike Dup (BIA1116-MSD1)

Source: 2501075-01

Prepared & Analyzed: 01/24/25

Chromium, Hexavalent 29.2 0.30 mg/kg dry 27.2 ND 107 75-125 1.85 20

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

Project: Noble - Jepsen T3N-R65W-S2 L04 Tank Battery

Project Number: UWRWE-A3069-ABN
Project Manager: Bryce Goldade

Reported:
02/26/25 14:48

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

Summit Scientific

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

Batch BIB0785 - General Preparation

Blank (BIB0785-BLK1)

Prepared: 02/14/25 Analyzed: 02/24/25

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

LCS (BIB0785-BS1)

Prepared: 02/14/25 Analyzed: 02/24/25

Calcium	5.34	0.0500	mg/L wet	5.00	107	70-130
Magnesium	5.39	0.0500	"	5.00	108	70-130
Sodium	5.41	0.0500	"	5.00	108	70-130

Summit Scientific

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Tasman Geosciences
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Broomfield CO, 80020

Project: Noble - Jepsen T3N-R65W-S2 L04 Tank Battery

Project Number: UWRWE-A3069-ABN
Project Manager: Bryce Goldade

Reported:
02/26/25 14:48

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 BIA1125 - General Preparation

Duplicate (BIA1125-DUP1)

Source: 2501331-01

Prepared & Analyzed: 01/24/25

% Solids	85.8		%		86.0			0.232	20	
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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Jepsen T3N-R65W-S2 L04 Tank Battery

Project Number: UWRWE-A3069-ABN
Project Manager: Bryce Goldade

Reported:
02/26/25 14:48

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 BIB0787 - General Preparation

Blank (BIB0787-BLK1)

Prepared: 02/14/25 Analyzed: 02/19/25

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BIB0787-BS1)

Prepared: 02/14/25 Analyzed: 02/19/25

Specific Conductance (EC) 1.36 0.0100 mmhos/cm 1.41 96.3 95-105

Duplicate (BIB0787-DUP1)

Source: 2501330-01

Prepared: 02/14/25 Analyzed: 02/19/25

Specific Conductance (EC) 0.682 0.0100 mmhos/cm 0.685 0.434 20

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Jepsen T3N-R65W-S2 L04 Tank Battery

Project Number: UWRWE-A3069-ABN
Project Manager: Bryce Goldade

Reported:
02/26/25 14:48

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 BIB0786 - General Preparation

LCS (BIB0786-BS1)

Prepared: 02/14/25 Analyzed: 02/19/25

pH	9.13	pH Units	9.18	99.5	95-105
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Duplicate (BIB0786-DUP1)

Source: 2501330-01

Prepared: 02/14/25 Analyzed: 02/19/25

pH	8.50	pH Units	8.52	0.202	20
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Summit Scientific

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

Project: Noble - Jepsen T3N-R65W-S2 L04 Tank Battery

Project Number: UWRWE-A3069-ABN
Project Manager: Bryce Goldade

Reported:
02/26/25 14:48

Notes and Definitions

- S-02 The surrogate recovery for this sample cannot be accurately quantified due to matrix interference. Matrix interference was verified via reanalysis.
- R-05 The reporting limit for this sample has been raised due to the presence of high levels of non-target analytes.
- 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.
- 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.
- E The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
- 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