Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

May 20, 2024

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

RE: Noble - Sater CC18-18 TB

Work Order #2404150

Enclosed are the results of analyses for samples received by Summit Scientific on 04/09/24 17:36. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Natalie Tessier For Paul Shrewsbury
President

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Sater CC18-18 TB Project Number: UWRWE-3547-ABN Project Manager: Jacob Whritenour	**Reported:** 05/20/24 12:07

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SEP01-FL@3'	2404150-01	Soil	04/09/24 12:58	04/09/24 17:36
SEP01-DL@3'	2404150-02	Soil	04/09/24 13:00	04/09/24 17:36
SEP02-FL@3'	2404150-03	Soil	04/09/24 13:10	04/09/24 17:36
SEP02-DL@3'	2404150-04	Soil	04/09/24 13:12	04/09/24 17:36
BG01@0.5	2404150-05	Soil	04/09/24 13:21	04/09/24 17:36
BG01@3'	2404150-06	Soil	04/09/24 13:23	04/09/24 17:36
BG01@4'	2404150-07	Soil	04/09/24 13:25	04/09/24 17:36

Case Narrative

Hunter Merlo requested pH be added to BG01@0.5', BG01@3' and BG01@4' on 5/16/24.
This report includes those results.

SUMMIT SCIENTIFIC

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

Lab ID	Page 1 of 1
24G4150	

	Send Data To:	Send Invoice To:
Client: Noble/Tasman	Project Manager: Jake Whritenour	Company: Noble
Address: 6855 W. 119th Ave.	E-Mail: Jwhritenour@tasman-geo.com	Project Name/Location: Sater CC18-18 Tank Battery
City/State/Zip: Broomfield/CO/ 80020		AFE#: UNRWE - 3547 - ABN
Phone: 727-365-4136	Project Name: Sater CC18-18 Tank Battery	PO/Billing Codes:
Sampler Name: Elizabeth Brauer Kaitlin Steinfort	Project Number:	Contact: Miguel Barron

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative: HCl	HNO3	None	Other ___	Matrix: Water	Soil	Air-Canister #	Other ___	Analysis Requested: Metals - 915	VOC - 915	TPH - 915	PAH - 915	SAR, EC, pH	Boron - HWS	HOLD		Special Instructions
1	SEP01-FL@3'	4/9/24	1258	3			X			X			X	X	X	X	X	X			SAR, EC, pH by saturated paste
2	SEP01-DL@3'		1300																		
3	SEP02-FL@3'		1310																		
4	SEP02-DL@3'		1312																		
5	BG01@0.5'		1321	2																	
6	BG01@3'		1323																		
7	BG01@4'		1325																		
8																					
9																					
10																					
11																					
12																					
13																					
14																					
15																					

Relinquished by:	Date/Time:	Received by:	Date/Time:
Kaitlin Steinfort	4/9/24 1539	Tasman Lockbox	4/9/24 1539
Relinquished by:	Date/Time:	Received by:	Date/Time:
Tasman Lockbox	4/9/24 1736	[illegible signature]	4/9/24 1736
Relinquished by:	Date/Time:	Received by:	Date/Time:

TAT Business Days			
Same Day		Field DO	
1 Day		Field EC	
2 Days		Field ORP	
3 Days		Field pH	
Standard	X	Field Temp.	
		Field Turb.	

Notes:

Temperature Upon Receipt: 9.4 | Corrected Temperature: 0 | IR gun #: ____ | HNO3 lot #: ____

S2

Sample Receipt Checklist

S2 Work Order# 2404150

Client: Noble Tasman

Client Project ID: Salter CC18-18 Tank Battery

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

[ ] [✓] [ ] [ ] [ ]

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

Temp (°C) 9.4 Thermometer # 1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? (1) **NOTE:** If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	—			ON ICE
If custody seals are present, are they intact? (1)	—			
Are samples due within 48 hours present?		—		
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe^{2+}), Hexavalent Chromium (Cr^{6+}, Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen		—		
Is a chain-of-custody (COC) form present and filled out Completely? (1)	—			
Is the COC properly relinquished by the client w/ date and time recorded? (1)	—			
Were all samples received intact? (1)	✓			
Was adequate sample volume provided? (1)	✓			
Does the COC agree with the number and type of sample bottles received? (1)	✓			
Do the sample IDs on the bottle labels match the COC? (1)	✓			
For volatiles in water – is there headspace present? **If yes, contact client and note in narrative.**			✓	
Are samples preserved that require preservation **(excluding cooling)?** (1) Note the type of preservative in the comments column – HCl, H_2SO_4, NaOH, HNO_3, etc.			✓	
If samples are acid preserved for metals, is the pH ≤ 2? (1) Record the pH in Comments.			✓	
If dissolved metals are requested, were samples field filtered?			✓	
Additional Comments (if any):				

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

AS

Custodian Printed Name

4/9/24

Date/Time

S2

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Sater CC18-18 TB Project Number: UWRWE-3547-ABN Project Manager: Jacob Whritenour	**Reported:** 05/20/24 12:07

SEP01-FL@3'

2404150-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/09/24 12:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHD0310	04/10/24	04/13/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/09/24 12:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0316	*79.0 %*	*50-150*		"	"	"	"	
Surrogate: Toluene-d8	0.0343	*85.7 %*	*50-150*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0380	*95.1 %*	*50-150*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/09/24 12:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHD0314	04/10/24	04/12/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/09/24 12:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	8.90	*71.2 %*	*30-150*		"	"	"	"	

PAH by EPA Method 8270D SIM

S2

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Sater CC18-18 TB Project Number: UWRWE-3547-ABN Project Manager: Jacob Whritenour	**Reported:** 05/20/24 12:07

SEP01-FL@3'

2404150-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/09/24 12:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHD0306	04/10/24	04/12/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/09/24 12:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0265	*79.6 %*	*40-150*		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0190	*57.0 %*	*40-150*		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/09/24 12:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0547	04/17/24	05/04/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/09/24 12:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

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Natalie Bessin

S2

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Sater CC18-18 TB Project Number: UWRWE-3547-ABN Project Manager: Jacob Whritenour	**Reported:** 05/20/24 12:07

SEP01-FL@3'

2404150-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	**1.61**	0.200	mg/kg dry	1	BHD0846	04/23/24	05/04/24	EPA 6020B
Barium	**63.2**	0.400	"	"	"	"	"	"
Cadmium	**0.200**	0.200	"	"	"	"	"	"
Copper	**5.82**	0.400	"	"	"	"	"	"
Lead	**5.05**	0.200	"	"	"	"	"	"
Nickel	**3.54**	0.400	"	"	"	"	"	"
Silver	**0.0278**	0.0200	"	"	"	"	"	"
Zinc	**23.1**	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/09/24 12:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0669	04/19/24	04/19/24	EPA 7196A	

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

Date Sampled: **04/09/24 12:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**181**	0.0500	mg/L dry	1	BHD0906	04/24/24	05/10/24	EPA 6020B	
Magnesium	**47.4**	0.0500	"	"	"	"	"	"	
Sodium	**3.71**	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/09/24 12:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.0635**	0.00100	units	1	BHE0334	05/10/24	05/10/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/09/24 12:58**

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 - Sater CC18-18 TB Project Number: UWRWE-3547-ABN Project Manager: Jacob Whritenour	**Reported:** 05/20/24 12:07

SEP01-FL@3'

2404150-01 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

% Solids	**91.2**	%	1	BHD0476	04/16/24	04/16/24	Calculation

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/09/24 12:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.108**	0.0100	mmhos/cm	1	BHD0908	04/24/24	04/26/24	EPA 120.1	

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

Date Sampled: **04/09/24 12:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	**8.19**		pH Units	1	BHD0907	04/24/24	04/26/24	EPA 9045D	

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S2

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Sater CC18-18 TB Project Number: UWRWE-3547-ABN Project Manager: Jacob Whritenour	**Reported:** 05/20/24 12:07

SEP01-DL@3'

2404150-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/09/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHD0310	04/10/24	04/13/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/09/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0315	*78.8 %*	*50-150*		"	"	"	"	
Surrogate: Toluene-d8	0.0342	*85.4 %*	*50-150*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0359	*89.8 %*	*50-150*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/09/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHD0314	04/10/24	04/12/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/09/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	7.53	*60.3 %*	*30-150*		"	"	"	"	

PAH by EPA Method 8270D SIM

S2

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Sater CC18-18 TB Project Number: UWRWE-3547-ABN Project Manager: Jacob Whritenour	**Reported:** 05/20/24 12:07

SEP01-DL@3'

2404150-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/09/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHD0306	04/10/24	04/12/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/09/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0281	*84.3 %*	*40-150*		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0209	*62.8 %*	*40-150*		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/09/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0547	04/17/24	05/04/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/09/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

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S2

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Sater CC18-18 TB Project Number: UWRWE-3547-ABN Project Manager: Jacob Whritenour	**Reported:** 05/20/24 12:07

SEP01-DL@3'

2404150-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	**1.46**	0.179	mg/kg dry	1	BHD0846	04/23/24	05/04/24	EPA 6020B
Barium	**55.0**	0.357	"	"	"	"	"	"
Cadmium	ND	0.179	"	"	"	"	"	"
Copper	**3.80**	0.357	"	"	"	"	"	"
Lead	**3.72**	0.179	"	"	"	"	"	"
Nickel	**2.86**	0.357	"	"	"	"	"	"
Silver	**0.0240**	0.0179	"	"	"	"	"	"
Zinc	**16.7**	0.357	"	"	"	"	"	"
Selenium	ND	0.232	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/09/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0669	04/19/24	04/19/24	EPA 7196A	

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

Date Sampled: **04/09/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**151**	0.0500	mg/L dry	1	BHD0906	04/24/24	05/10/24	EPA 6020B	
Magnesium	**29.7**	0.0500	"	"	"	"	"	"	
Sodium	**2.09**	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/09/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.0407**	0.00100	units	1	BHE0334	05/10/24	05/10/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Sater CC18-18 TB Project Number: UWRWE-3547-ABN Project Manager: Jacob Whritenour	**Reported:** 05/20/24 12:07

SEP01-DL@3'

2404150-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/09/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**92.4**		%	1	BHD0476	04/16/24	04/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/09/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.0549**	0.0100	mmhos/cm	1	BHD0908	04/24/24	04/26/24	EPA 120.1	

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

Date Sampled: **04/09/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	**8.16**		pH Units	1	BHD0907	04/24/24	04/26/24	EPA 9045D	

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S2

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Sater CC18-18 TB Project Number: UWRWE-3547-ABN Project Manager: Jacob Whritenour	**Reported:** 05/20/24 12:07

SEP02-FL@3'

2404150-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/09/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHD0310	04/10/24	04/13/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/09/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0341	*85.2 %*	*50-150*		"	"	"	"	
Surrogate: Toluene-d8	0.0347	*86.8 %*	*50-150*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0362	*90.5 %*	*50-150*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/09/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHD0314	04/10/24	04/12/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/09/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	8.12	*65.0 %*	*30-150*		"	"	"	"	

PAH by EPA Method 8270D SIM

S2

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Sater CC18-18 TB Project Number: UWRWE-3547-ABN Project Manager: Jacob Whritenour	**Reported:** 05/20/24 12:07

SEP02-FL@3'

2404150-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/09/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHD0306	04/10/24	04/12/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/09/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0331	*99.2 %*	*40-150*		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0224	*67.2 %*	*40-150*		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/09/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0547	04/17/24	05/04/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/09/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Summit Scientific

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

Natalie Bessin

S2

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Sater CC18-18 TB Project Number: UWRWE-3547-ABN Project Manager: Jacob Whritenour	**Reported:** 05/20/24 12:07

SEP02-FL@3'

2404150-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	**1.74**	0.200	mg/kg dry	1	BHD0846	04/23/24	05/04/24	EPA 6020B
Barium	**68.1**	0.400	"	"	"	"	"	"
Cadmium	**0.220**	0.200	"	"	"	"	"	"
Copper	**6.88**	0.400	"	"	"	"	"	"
Lead	**6.01**	0.200	"	"	"	"	"	"
Nickel	**3.81**	0.400	"	"	"	"	"	"
Silver	**0.0310**	0.0200	"	"	"	"	"	"
Zinc	**26.0**	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/09/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0669	04/19/24	04/19/24	EPA 7196A	

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

Date Sampled: **04/09/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**85.2**	0.0500	mg/L dry	1	BHD0906	04/24/24	05/10/24	EPA 6020B	
Magnesium	**18.8**	0.0500	"	"	"	"	"	"	
Sodium	**0.978**	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/09/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.0250**	0.00100	units	1	BHE0334	05/10/24	05/10/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/09/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Summit Scientific

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

Natalie Bessin

S2

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Sater CC18-18 TB Project Number: UWRWE-3547-ABN Project Manager: Jacob Whritenour	**Reported:** 05/20/24 12:07

SEP02-FL@3'

2404150-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	**91.6**	%	1	BHD0476	04/16/24	04/16/24	Calculation

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/09/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.107**	0.0100	mmhos/cm	1	BHD0908	04/24/24	04/26/24	EPA 120.1	

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

Date Sampled: **04/09/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	**8.60**		pH Units	1	BHD0907	04/24/24	04/26/24	EPA 9045D	

S2

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Sater CC18-18 TB Project Number: UWRWE-3547-ABN Project Manager: Jacob Whritenour	**Reported:** 05/20/24 12:07

SEP02-DL@3'

2404150-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/09/24 13:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHD0310	04/10/24	04/13/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/09/24 13:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0596	*149 %*	*50-150*		"	"	"	"	
Surrogate: Toluene-d8	0.0340	*84.9 %*	*50-150*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0362	*90.4 %*	*50-150*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/09/24 13:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHD0314	04/10/24	04/12/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/09/24 13:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	8.07	*64.6 %*	*30-150*		"	"	"	"	

PAH by EPA Method 8270D SIM

S2

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Sater CC18-18 TB Project Number: UWRWE-3547-ABN Project Manager: Jacob Whritenour	**Reported:** 05/20/24 12:07

SEP02-DL@3'
2404150-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/09/24 13:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHD0306	04/10/24	04/12/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/09/24 13:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0321	*96.4 %*	*40-150*		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0213	*63.8 %*	*40-150*		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/09/24 13:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0547	04/17/24	05/04/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/09/24 13:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Summit Scientific

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Natalie Bessin

S2

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Sater CC18-18 TB Project Number: UWRWE-3547-ABN Project Manager: Jacob Whritenour	**Reported:** 05/20/24 12:07

SEP02-DL@3'
2404150-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	**1.66**	0.200	mg/kg dry	1	BHD0846	04/23/24	05/04/24	EPA 6020B
Barium	**61.0**	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	**5.54**	0.400	"	"	"	"	"	"
Lead	**4.95**	0.200	"	"	"	"	"	"
Nickel	**3.48**	0.400	"	"	"	"	"	"
Silver	**0.0253**	0.0200	"	"	"	"	"	"
Zinc	**22.6**	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/09/24 13:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0669	04/19/24	04/19/24	EPA 7196A	

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

Date Sampled: **04/09/24 13:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**35.6**	0.0500	mg/L dry	1	BHD0906	04/24/24	05/10/24	EPA 6020B	
Magnesium	**4.94**	0.0500	"	"	"	"	"	"	
Sodium	**3.52**	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/09/24 13:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.147**	0.00100	units	1	BHE0334	05/10/24	05/10/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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

S2

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Sater CC18-18 TB Project Number: UWRWE-3547-ABN Project Manager: Jacob Whritenour	**Reported:** 05/20/24 12:07

SEP02-DL@3'

2404150-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/09/24 13:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**90.9**		%	1	BHD0476	04/16/24	04/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/09/24 13:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.252**	0.0100	mmhos/cm	1	BHD0908	04/24/24	04/26/24	EPA 120.1	

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

Date Sampled: **04/09/24 13:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	**8.40**		pH Units	1	BHD0907	04/24/24	04/26/24	EPA 9045D	

S2

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Sater CC18-18 TB Project Number: UWRWE-3547-ABN Project Manager: Jacob Whritenour	**Reported:** 05/20/24 12:07

BG01@0.5

2404150-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **04/09/24 13:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	**1.64**	0.200	mg/kg dry	1	BHD0846	04/23/24	05/04/24	EPA 6020B	
Barium	**78.5**	0.400	"	"	"	"	"	"	
Cadmium	**0.205**	0.200	"	"	"	"	"	"	
Copper	**7.95**	0.400	"	"	"	"	"	"	
Lead	**6.52**	0.200	"	"	"	"	"	"	
Nickel	**3.94**	0.400	"	"	"	"	"	"	
Silver	**0.0290**	0.0200	"	"	"	"	"	"	
Zinc	**26.7**	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/09/24 13:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0669	04/19/24	04/19/24	EPA 7196A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/09/24 13:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**92.1**		%	1	BHD0476	04/16/24	04/16/24	Calculation	

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

I-04

Date Sampled: **04/09/24 13:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	**7.65**		pH Units	1	BHE0559	05/17/24	05/17/24	EPA 9045D	

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S2

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Sater CC18-18 TB Project Number: UWRWE-3547-ABN Project Manager: Jacob Whritenour	**Reported:** 05/20/24 12:07

BG01@3'

2404150-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **04/09/24 13:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	**1.67**	0.200	mg/kg dry	1	BHD0846	04/23/24	05/04/24	EPA 6020B	
Barium	**62.1**	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	**4.92**	0.400	"	"	"	"	"	"	
Lead	**4.51**	0.200	"	"	"	"	"	"	
Nickel	**3.47**	0.400	"	"	"	"	"	"	
Silver	**0.0349**	0.0200	"	"	"	"	"	"	
Zinc	**22.3**	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/09/24 13:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0669	04/19/24	04/19/24	EPA 7196A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/09/24 13:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**96.5**		%	1	BHD0476	04/16/24	04/16/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction **I-04**

Date Sampled: **04/09/24 13:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	**8.37**		pH Units	1	BHE0559	05/17/24	05/17/24	EPA 9045D	

S2

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Sater CC18-18 TB Project Number: UWRWE-3547-ABN Project Manager: Jacob Whritenour	**Reported:** 05/20/24 12:07

BG01@4'

2404150-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **04/09/24 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	**1.71**	0.181	mg/kg dry	1	BHD0846	04/23/24	05/04/24	EPA 6020B	
Barium	**59.7**	0.362	"	"	"	"	"	"	
Cadmium	ND	0.181	"	"	"	"	"	"	
Copper	**5.04**	0.362	"	"	"	"	"	"	
Lead	**4.56**	0.181	"	"	"	"	"	"	
Nickel	**3.18**	0.362	"	"	"	"	"	"	
Silver	**0.0224**	0.0181	"	"	"	"	"	"	
Zinc	**19.5**	0.362	"	"	"	"	"	"	
Selenium	ND	0.236	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/09/24 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0669	04/19/24	04/19/24	EPA 7196A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/09/24 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**95.3**		%	1	BHD0476	04/16/24	04/16/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction **I-04**

Date Sampled: **04/09/24 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	**8.71**		pH Units	1	BHE0559	05/17/24	05/17/24	EPA 9045D	

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S2

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Sater CC18-18 TB Project Number: UWRWE-3547-ABN Project Manager: Jacob Whritenour	**Reported:** 05/20/24 12:07

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHD0310 - EPA 5030 Soil MS										
Blank (BHD0310-BLK1)				Prepared: 04/10/24 Analyzed: 04/12/24						
Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	*0.0322*		*"*	*0.0400*		*80.4*	*50-150*			
Surrogate: Toluene-d8	*0.0342*		*"*	*0.0400*		*85.5*	*50-150*			
Surrogate: 4-Bromofluorobenzene	*0.0374*		*"*	*0.0400*		*93.4*	*50-150*			
LCS (BHD0310-BS1)				Prepared: 04/10/24 Analyzed: 04/12/24						
Benzene	0.0851	0.0020	mg/kg	0.100		85.1	70-130			
Toluene	0.0835	0.0050	"	0.100		83.5	70-130			
Ethylbenzene	0.120	0.0050	"	0.100		120	70-130			
m,p-Xylene	0.238	0.010	"	0.200		119	70-130			
o-Xylene	0.114	0.0050	"	0.100		114	70-130			
1,2,4-Trimethylbenzene	0.129	0.0050	"	0.100		129	70-130			
1,3,5-Trimethylbenzene	0.127	0.0050	"	0.100		127	70-130			
Naphthalene	0.112	0.0038	"	0.100		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0336*		*"*	*0.0400*		*84.1*	*50-150*			
Surrogate: Toluene-d8	*0.0348*		*"*	*0.0400*		*87.0*	*50-150*			
Surrogate: 4-Bromofluorobenzene	*0.0363*		*"*	*0.0400*		*90.7*	*50-150*			
Matrix Spike (BHD0310-MS1)		**Source: 2404117-01**		Prepared: 04/10/24 Analyzed: 04/12/24						
Benzene	0.0869	0.0020	mg/kg	0.100	ND	86.9	70-130			
Toluene	0.0854	0.0050	"	0.100	ND	85.4	70-130			
Ethylbenzene	0.125	0.0050	"	0.100	ND	125	70-130			
m,p-Xylene	0.247	0.010	"	0.200	ND	124	70-130			
o-Xylene	0.117	0.0050	"	0.100	ND	117	70-130			
1,2,4-Trimethylbenzene	0.103	0.0050	"	0.100	ND	103	70-130			
1,3,5-Trimethylbenzene	0.130	0.0050	"	0.100	ND	130	70-130			
Naphthalene	0.109	0.0038	"	0.100	ND	109	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0342*		*"*	*0.0400*		*85.4*	*50-150*			
Surrogate: Toluene-d8	*0.0351*		*"*	*0.0400*		*87.7*	*50-150*			
Surrogate: 4-Bromofluorobenzene	*0.0369*		*"*	*0.0400*		*92.2*	*50-150*			

Summit Scientific

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

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHD0310 - EPA 5030 Soil MS										
Matrix Spike Dup (BHD0310-MSD1)		**Source: 2404117-01**		Prepared: 04/10/24 Analyzed: 04/12/24						
Benzene	0.0881	0.0020	mg/kg	0.100	ND	88.1	70-130	1.44	30	
Toluene	0.0873	0.0050	"	0.100	ND	87.3	70-130	2.12	30	
Ethylbenzene	0.124	0.0050	"	0.100	ND	124	70-130	0.915	30	
m,p-Xylene	0.245	0.010	"	0.200	ND	122	70-130	1.17	30	
o-Xylene	0.114	0.0050	"	0.100	ND	114	70-130	2.44	30	
1,2,4-Trimethylbenzene	0.101	0.0050	"	0.100	ND	101	70-130	1.76	30	
1,3,5-Trimethylbenzene	0.130	0.0050	"	0.100	ND	130	70-130	0.138	30	
Naphthalene	0.104	0.0038	"	0.100	ND	104	70-130	5.04	30	
Surrogate: 1,2-Dichloroethane-d4	*0.0345*		*"*	*0.0400*		*86.2*	*50-150*			
Surrogate: Toluene-d8	*0.0350*		*"*	*0.0400*		*87.4*	*50-150*			
Surrogate: 4-Bromofluorobenzene	*0.0363*		*"*	*0.0400*		*90.8*	*50-150*			

Extractable Petroleum Hydrocarbons by 8015 - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHD0314 - EPA 3550A										
Blank (BHD0314-BLK1)				Prepared: 04/10/24 Analyzed: 04/11/24						
C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	*10.7*		*"*	*12.5*		*86.0*	*30-150*			
LCS (BHD0314-BS1)				Prepared: 04/10/24 Analyzed: 04/11/24						
C10-C28 (DRO)	449	50	mg/kg	500		89.9	70-130			
Surrogate: o-Terphenyl	*10.0*		*"*	*12.5*		*80.2*	*30-150*			
Matrix Spike (BHD0314-MS1)		**Source: 2404117-01**		Prepared: 04/10/24 Analyzed: 04/11/24						
C10-C28 (DRO)	432	50	mg/kg	500	17.2	83.0	70-130			
Surrogate: o-Terphenyl	*7.02*		*"*	*12.5*		*56.2*	*30-150*			
Matrix Spike Dup (BHD0314-MSD1)		**Source: 2404117-01**		Prepared: 04/10/24 Analyzed: 04/11/24						
C10-C28 (DRO)	406	50	mg/kg	500	17.2	77.7	70-130	6.24	20	
Surrogate: o-Terphenyl	*8.08*		*"*	*12.5*		*64.6*	*30-150*			

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Sater CC18-18 TB Project Number: UWRWE-3547-ABN Project Manager: Jacob Whritenour	**Reported:** 05/20/24 12:07

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHD0306 - EPA 5030 Soil MS										
Blank (BHD0306-BLK1)				Prepared: 04/10/24 Analyzed: 04/11/24						
Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	*0.0161*		*"*	*0.0333*		*48.2*	*40-150*			
Surrogate: Fluoranthene-d10	*0.0313*		*"*	*0.0333*		*94.0*	*40-150*			
LCS (BHD0306-BS1)				Prepared: 04/10/24 Analyzed: 04/11/24						
Acenaphthene	0.0323	0.00500	mg/kg	0.0333		96.9	31-137			
Anthracene	0.0327	0.00500	"	0.0333		98.0	30-120			
Benzo (a) anthracene	0.0276	0.00500	"	0.0333		82.9	30-120			
Benzo (a) pyrene	0.0253	0.00500	"	0.0333		75.8	30-120			
Benzo (b) fluoranthene	0.0231	0.00500	"	0.0333		69.4	30-120			
Benzo (k) fluoranthene	0.0276	0.00500	"	0.0333		82.7	30-120			
Chrysene	0.0330	0.00500	"	0.0333		98.9	30-120			
Dibenz (a,h) anthracene	0.0284	0.00500	"	0.0333		85.2	30-120			
Fluoranthene	0.0316	0.00500	"	0.0333		94.7	30-120			
Fluorene	0.0322	0.00500	"	0.0333		96.5	30-120			
Indeno (1,2,3-cd) pyrene	0.0297	0.00500	"	0.0333		89.0	30-120			
Pyrene	0.0363	0.00500	"	0.0333		109	35-142			
1-Methylnaphthalene	0.0344	0.00500	"	0.0333		103	35-142			
2-Methylnaphthalene	0.0352	0.00500	"	0.0333		105	35-142			
Surrogate: 2-Methylnaphthalene-d10	*0.0394*		*"*	*0.0333*		*118*	*40-150*			
Surrogate: Fluoranthene-d10	*0.0322*		*"*	*0.0333*		*96.5*	*40-150*			

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Sater CC18-18 TB Project Number: UWRWE-3547-ABN Project Manager: Jacob Whritenour	**Reported:** 05/20/24 12:07

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHD0306 - EPA 5030 Soil MS										
Matrix Spike (BHD0306-MS1)		**Source: 2404128-01**		Prepared: 04/10/24 Analyzed: 04/11/24						
Acenaphthene	0.0237	0.00500	mg/kg	0.0333	ND	71.0	31-137			
Anthracene	0.0262	0.00500	"	0.0333	ND	78.7	30-120			
Benzo (a) anthracene	0.0274	0.00500	"	0.0333	ND	82.2	30-120			
Benzo (a) pyrene	0.0222	0.00500	"	0.0333	ND	66.5	30-120			
Benzo (b) fluoranthene	0.0208	0.00500	"	0.0333	ND	62.3	30-120			
Benzo (k) fluoranthene	0.0196	0.00500	"	0.0333	ND	58.9	30-120			
Chrysene	0.0272	0.00500	"	0.0333	ND	81.5	30-120			
Dibenz (a,h) anthracene	0.0303	0.00500	"	0.0333	ND	90.8	30-120			
Fluoranthene	0.0272	0.00500	"	0.0333	ND	81.5	30-120			
Fluorene	0.0246	0.00500	"	0.0333	ND	73.7	30-120			
Indeno (1,2,3-cd) pyrene	0.0325	0.00500	"	0.0333	ND	97.5	30-120			
Pyrene	0.0340	0.00500	"	0.0333	0.00510	86.8	35-142			
1-Methylnaphthalene	0.0331	0.00500	"	0.0333	ND	99.3	15-130			
2-Methylnaphthalene	0.0337	0.00500	"	0.0333	ND	101	15-130			
Surrogate: 2-Methylnaphthalene-d10	*0.0355*		*"*	*0.0333*		*107*	*40-150*			
Surrogate: Fluoranthene-d10	*0.0260*		*"*	*0.0333*		*77.9*	*40-150*			
Matrix Spike Dup (BHD0306-MSD1)		**Source: 2404128-01**		Prepared: 04/10/24 Analyzed: 04/11/24						
Acenaphthene	0.0203	0.00500	mg/kg	0.0333	ND	61.0	31-137	15.2	30	
Anthracene	0.0216	0.00500	"	0.0333	ND	64.7	30-120	19.5	30	
Benzo (a) anthracene	0.0277	0.00500	"	0.0333	ND	83.0	30-120	1.06	30	
Benzo (a) pyrene	0.0213	0.00500	"	0.0333	ND	63.9	30-120	3.96	30	
Benzo (b) fluoranthene	0.0204	0.00500	"	0.0333	ND	61.2	30-120	1.79	30	
Benzo (k) fluoranthene	0.0164	0.00500	"	0.0333	ND	49.3	30-120	17.7	30	
Chrysene	0.0260	0.00500	"	0.0333	ND	78.0	30-120	4.31	30	
Dibenz (a,h) anthracene	0.0292	0.00500	"	0.0333	ND	87.6	30-120	3.55	30	
Fluoranthene	0.0253	0.00500	"	0.0333	ND	75.8	30-120	7.31	30	
Fluorene	0.0212	0.00500	"	0.0333	ND	63.7	30-120	14.4	30	
Indeno (1,2,3-cd) pyrene	0.0307	0.00500	"	0.0333	ND	92.1	30-120	5.68	30	
Pyrene	0.0377	0.00500	"	0.0333	0.00510	97.7	35-142	10.2	30	
1-Methylnaphthalene	0.0266	0.00500	"	0.0333	ND	79.7	15-130	21.9	50	
2-Methylnaphthalene	0.0266	0.00500	"	0.0333	ND	79.8	15-130	23.5	50	
Surrogate: 2-Methylnaphthalene-d10	*0.0247*		*"*	*0.0333*		*74.1*	*40-150*			
Surrogate: Fluoranthene-d10	*0.0204*		*"*	*0.0333*		*61.2*	*40-150*			

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Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Sater CC18-18 TB Project Number: UWRWE-3547-ABN Project Manager: Jacob Whritenour	**Reported:** 05/20/24 12:07

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

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHD0547 - EPA 3050B										
Blank (BHD0547-BLK1)				Prepared: 04/17/24 Analyzed: 05/04/24						
Boron	ND	2.00	mg/L							
LCS (BHD0547-BS1)				Prepared: 04/17/24 Analyzed: 05/04/24						
Boron	5.06	2.00	mg/L	5.00		101	80-120			
Duplicate (BHD0547-DUP1)		**Source: 2404146-01**		Prepared: 04/17/24 Analyzed: 05/07/24						
Boron	0.330	2.00	mg/L		0.375			12.7	20	
Matrix Spike (BHD0547-MS1)		**Source: 2404146-01**		Prepared: 04/17/24 Analyzed: 05/07/24						
Boron	5.47	2.00	mg/L	5.00	0.375	102	75-125			
Matrix Spike Dup (BHD0547-MSD1)		**Source: 2404146-01**		Prepared: 04/17/24 Analyzed: 05/07/24						
Boron	5.29	2.00	mg/L	5.00	0.375	98.4	75-125	3.26	25	

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Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Sater CC18-18 TB Project Number: UWRWE-3547-ABN Project Manager: Jacob Whritenour	**Reported:** 05/20/24 12:07

Total Metals by EPA 6020B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHD0846 - EPA 3050B										
Blank (BHD0846-BLK1)				Prepared: 04/23/24 Analyzed: 05/03/24						
Arsenic	ND	0.200	mg/kg wet							
Barium	ND	0.400	"							
Cadmium	ND	0.200	"							
Copper	ND	0.400	"							
Lead	ND	0.200	"							
Nickel	ND	0.400	"							
Silver	ND	0.0200	"							
Zinc	ND	0.400	"							
Selenium	ND	0.260	"							
LCS (BHD0846-BS1)				Prepared: 04/23/24 Analyzed: 05/03/24						
Arsenic	38.9	0.200	mg/kg wet	40.0		97.1	80-120			
Barium	39.5	0.400	"	40.0		98.8	80-120			
Cadmium	1.91	0.200	"	2.00		95.3	80-120			
Copper	37.2	0.400	"	40.0		93.0	80-120			
Lead	18.5	0.200	"	20.0		92.6	80-120			
Nickel	40.1	0.400	"	40.0		100	80-120			
Silver	1.93	0.0200	"	2.00		96.7	80-120			
Zinc	37.7	0.400	"	40.0		94.2	80-120			
Selenium	3.92	0.260	"	4.00		98.1	80-120			
Duplicate (BHD0846-DUP1)		**Source: 2404150-01**		Prepared: 04/23/24 Analyzed: 05/04/24						
Arsenic	1.62	0.200	mg/kg dry		1.61			0.582	20	
Barium	62.8	0.400	"		63.2			0.617	20	
Cadmium	0.176	0.200	"		0.200			12.7	20	
Copper	5.70	0.400	"		5.82			2.17	20	
Lead	5.04	0.200	"		5.05			0.314	20	
Nickel	3.56	0.400	"		3.54			0.688	20	
Silver	0.0283	0.0200	"		0.0278			1.53	20	
Zinc	23.0	0.400	"		23.1			0.646	20	
Selenium	ND	0.260	"		ND				20	

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Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Sater CC18-18 TB Project Number: UWRWE-3547-ABN Project Manager: Jacob Whritenour	**Reported:** 05/20/24 12:07

Total Metals by EPA 6020B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHD0846 - EPA 3050B										
Matrix Spike (BHD0846-MS1)		**Source: 2404150-01**		Prepared: 04/23/24 Analyzed: 05/04/24						
Arsenic	40.6	0.200	mg/kg dry	43.2	1.61	90.3	75-125			
Barium	105	0.400	"	43.2	63.2	96.0	75-125			
Cadmium	2.31	0.200	"	2.16	0.200	97.8	75-125			
Copper	47.7	0.400	"	43.2	5.82	97.0	75-125			
Lead	25.6	0.200	"	21.6	5.05	95.4	75-125			
Nickel	30.7	0.400	"	43.2	3.54	62.9	75-125			QM-07
Silver	2.10	0.0200	"	2.16	0.0278	96.0	75-125			
Zinc	67.4	0.400	"	43.2	23.1	103	75-125			
Selenium	3.91	0.260	"	4.32	ND	90.6	75-125			
Matrix Spike Dup (BHD0846-MSD1)		**Source: 2404150-01**		Prepared: 04/23/24 Analyzed: 05/04/24						
Arsenic	40.0	0.200	mg/kg dry	43.2	1.61	89.0	75-125	1.36	25	
Barium	104	0.400	"	43.2	63.2	94.7	75-125	0.534	25	
Cadmium	2.31	0.200	"	2.16	0.200	98.0	75-125	0.112	25	
Copper	47.1	0.400	"	43.2	5.82	95.7	75-125	1.17	25	
Lead	25.6	0.200	"	21.6	5.05	95.2	75-125	0.142	25	
Nickel	31.3	0.400	"	43.2	3.54	64.3	75-125	2.01	25	QM-07
Silver	2.07	0.0200	"	2.16	0.0278	94.5	75-125	1.47	25	
Zinc	67.0	0.400	"	43.2	23.1	102	75-125	0.606	25	
Selenium	3.84	0.260	"	4.32	ND	89.0	75-125	1.75	25	
Post Spike (BHD0846-PS1)		**Source: 2404150-01**		Prepared: 04/23/24 Analyzed: 05/04/24						
Arsenic	99.0		ug/l	100	3.68	95.3	75-125			
Barium	246		"	100	144	102	75-125			
Cadmium	5.56		"	5.00	0.457	102	75-125			
Copper	113		"	100	13.3	100	75-125			
Lead	60.7		"	50.0	11.5	98.4	75-125			
Nickel	75.8		"	100	8.06	67.7	75-125			QM-07
Silver	5.25		"	5.00	0.0635	104	75-125			
Zinc	156		"	100	52.8	103	75-125			
Selenium	10.0		"	10.0	0.161	98.6	75-125			

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

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Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Sater CC18-18 TB Project Number: UWRWE-3547-ABN Project Manager: Jacob Whritenour	**Reported:** 05/20/24 12:07

Hexavalent Chromium by EPA Method 7196 - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHD0669 - 3060A_Mod										
Blank (BHD0669-BLK1)				Prepared & Analyzed: 04/19/24						
Chromium, Hexavalent	ND	0.30	mg/kg wet							
LCS (BHD0669-BS1)				Prepared & Analyzed: 04/19/24						
Chromium, Hexavalent	25.0	0.30	mg/kg wet	25.0		99.8	80-120			
Duplicate (BHD0669-DUP1)		**Source: 2404150-01**		Prepared & Analyzed: 04/19/24						
Chromium, Hexavalent	ND	0.30	mg/kg dry		ND				20	
Matrix Spike (BHD0669-MS1)		**Source: 2404150-01**		Prepared & Analyzed: 04/19/24						
Chromium, Hexavalent	26.3	0.30	mg/kg dry	27.4	ND	96.0	75-125			
Matrix Spike Dup (BHD0669-MSD1)		**Source: 2404150-01**		Prepared & Analyzed: 04/19/24						
Chromium, Hexavalent	26.3	0.30	mg/kg dry	27.4	ND	96.0	75-125	0.00	20	

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

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

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHD0906 - General Preparation										
Blank (BHD0906-BLK1)				Prepared: 04/24/24 Analyzed: 05/09/24						
Calcium	ND	0.0500	mg/L wet							
Magnesium	ND	0.0500	"							
Sodium	ND	0.0500	"							
LCS (BHD0906-BS1)				Prepared: 04/24/24 Analyzed: 05/09/24						
Calcium	5.40	0.0500	mg/L wet	5.00		108	70-130			
Magnesium	5.33	0.0500	"	5.00		107	70-130			
Sodium	4.92	0.0500	"	5.00		98.4	70-130			

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

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHD0476 - General Preparation										
Duplicate (BHD0476-DUP1)		**Source: 2404130-01**		Prepared & Analyzed: 04/16/24						
% Solids	87.8		%		87.6			0.283	20	

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Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Sater CC18-18 TB Project Number: UWRWE-3547-ABN Project Manager: Jacob Whritenour	**Reported:** 05/20/24 12:07

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

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHD0908 - General Preparation										
Blank (BHD0908-BLK1)				Prepared: 04/24/24 Analyzed: 04/26/24						
Specific Conductance (EC)	ND	0.0100	mmhos/cm							
LCS (BHD0908-BS1)				Prepared: 04/24/24 Analyzed: 04/26/24						
Specific Conductance (EC)	0.152	0.0100	mmhos/cm	0.150		102	95-105			
Duplicate (BHD0908-DUP1)		**Source: 2404144-01**		Prepared: 04/24/24 Analyzed: 04/26/24						
Specific Conductance (EC)	0.0659	0.0100	mmhos/cm		0.0666			1.10	20	

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

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

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHD0907 - General Preparation										
LCS (BHD0907-BS1)				Prepared: 04/24/24 Analyzed: 04/26/24						
pH	9.23		pH Units	9.18		101	95-105			
Duplicate (BHD0907-DUP1)		**Source: 2404144-01**		Prepared: 04/24/24 Analyzed: 04/26/24						
pH	6.80		pH Units		6.89			1.31	20	
Batch BHE0559 - General Preparation										
LCS (BHE0559-BS1)				Prepared & Analyzed: 05/17/24						
pH	9.22		pH Units	9.18		100	95-105			
Duplicate (BHE0559-DUP1)		**Source: 2403201-01**		Prepared & Analyzed: 05/17/24						
pH	9.05		pH Units		9.04			0.111	20	

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Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
I-04	Sample was analyzed out of recomended holding time per clients request.
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