

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

November 07, 2024

AJ Engelhardt

Tasman Geosciences

6855 W. 119th Ave.

Broomfield, CO 80020

RE: Noble - SH Farms C17-19

Work Order #2410467

Enclosed are the results of analyses for samples received by Summit Scientific on 10/24/24 18:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Natalie Tessier". The signature is written in a cursive, flowing style.

Natalie Tessier For Paul Shrewsbury

President



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

Project: Noble - SH Farms C17-19

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
11/07/24 09:58

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL01R-W@3'	2410467-01	Soil	10/24/24 10:30	10/24/24 18:45
FL01-04@3'	2410467-02	Soil	10/24/24 11:06	10/24/24 18:45
FL01-06@3'	2410467-03	Soil	10/24/24 12:23	10/24/24 18:45
FL01-07@3'	2410467-04	Soil	10/24/24 12:20	10/24/24 18:45
BKG01@0-6"	2410467-05	Soil	10/24/24 13:28	10/24/24 18:45
BKG01@3'	2410467-06	Soil	10/24/24 13:29	10/24/24 18:45
BKG01@4'	2410467-07	Soil	10/24/24 13:30	10/24/24 18:45

Client: Chevron/Tasman		Project Manager: AJ Engelhardt		Company: Chevron	
Address: 6855 W. 119th Avenue		E-Mail: tas-chevron-3@tasman-geo.com		Project Name/Location: <u>SH Farms C17-19</u>	
City/State/Zip: Broomfield, CO 80020				AFE#:	
Phone: <u>978-857-4408</u>		Project Name: <u>SH Farms C17-19</u>		PO/Billing Codes:	
Sampler Name: <u>Matthew Wentzel</u>		Project Number:		Contact: <u>Miguel Barron</u>	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Analysis Requested						Special Instructions			
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	915-VOC	915-PAH	915-TPH	pH, EC, SAR		Boron	915-Metals	
1	<u>FLOIR-W @ 3'</u>	<u>10-29-29</u>	<u>1030</u>	<u>2</u>			<u>X</u>			<u>X</u>				<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
2	<u>FLOI-04 @ 3'</u>	<u> </u>	<u>1106</u>	<u> </u>			<u> </u>			<u> </u>				<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
3	<u>FLOI-06 @ 3'</u>	<u> </u>	<u>1223</u>	<u> </u>			<u> </u>			<u> </u>				<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
4	<u>FLOI-07 @ 3'</u>	<u> </u>	<u>1228</u>	<u> </u>			<u> </u>			<u> </u>				<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
5	<u>BKG01 @ 0-6"</u>	<u> </u>	<u>1328</u>	<u> </u>			<u> </u>			<u> </u>				<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
6	<u>BKG01 @ 3'</u>	<u> </u>	<u>1329</u>	<u> </u>			<u> </u>			<u> </u>				<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
7	<u>BKG01 @ 4'</u>	<u> </u>	<u>1330</u>	<u> </u>			<u> </u>			<u> </u>				<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				

Relinquished by: <u>[Signature]</u>	Date/Time: <u>10-29-29 1515</u>	Received by: <u>Tasman Loadbox</u>	Date/Time: <u>10-29-29 1515</u>	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by: <u>Tasman Loadbox</u>	Date/Time: <u>10-29-29 1845</u>	Received by: <u>[Signature]</u>	Date/Time: <u>10-29-29 1845</u>	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	<u>X</u> Field Turb.	
Temperature Upon Receipt: <u>7.1</u>	Corrected Temperature: <u>8</u>	IR gun #:	<u>1</u>	HNO3 lot #:		

S₂

Sample Receipt Checklist

S2 Work Order# 2410467

Client: Chevron/Tasman Client Project ID: SH Farms CT7-19

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

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

Temp (°C) Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>CMJ CE</u>
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				
⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.				

AS

Custodian Printed Name

10/24/24
Date/Time



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

Project: Noble - SH Farms C17-19

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
11/07/24 09:58

FL01R-W@3'
2410467-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/24/24 10:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHJ1262	10/29/24	10/31/24	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: **10/24/24 10:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0433	108 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0404	101 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0396	99.0 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/24/24 10:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	420	50		mg/kg	1	BHJ1265	10/29/24	10/30/24	EPA 8015M	
C28-C36 (ORO)	140	50		"	"	"	"	"	"	

Date Sampled: **10/24/24 10:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	13.2	105 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Noble - SH Farms C17-19

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FL01R-W@3'
2410467-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/24/24 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	0.0225	0.00500	mg/kg	1	BHJ1244	10/29/24	10/30/24	EPA 8270D SIM	
Anthracene	0.100	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	0.164	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	0.113	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	0.157	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	0.0524	0.00500	"	"	"	"	"	"	
Chrysene	0.157	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	0.0197	0.00500	"	"	"	"	"	"	
Fluoranthene	0.479	0.00500	"	"	"	"	"	"	E
Fluorene	0.0401	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	0.0908	0.00500	"	"	"	"	"	"	
Pyrene	0.314	0.00500	"	"	"	"	"	"	E
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/24/24 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0205	61.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0221	66.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/24/24 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHJ1411	10/31/24	11/02/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/24/24 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.26	0.200	mg/kg dry	1	BHK0007	11/01/24	11/01/24	EPA 6020B	

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Project: Noble - SH Farms C17-19

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FL01R-W@3'
2410467-01 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	85.9	0.400	mg/kg dry	1	BHK0007	11/01/24	11/01/24	EPA 6020B	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	6.13	0.400	"	"	"	"	"	"	
Lead	7.91	0.200	"	"	"	"	"	"	
Nickel	3.93	0.400	"	"	"	"	"	"	
Silver	0.0279	0.0200	"	"	"	"	"	"	
Zinc	62.0	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/24/24 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0131	11/04/24	11/06/24	EPA 7196A	

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

Date Sampled: **10/24/24 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	54.6	0.0500	mg/L dry	1	BHJ1303	10/29/24	10/31/24	EPA 6020B	
Magnesium	18.4	0.0500	"	"	"	"	"	"	
Sodium	62.6	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/24/24 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.87	0.00100	units	1	BHK0034	11/01/24	11/01/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/24/24 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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11/07/24 09:58

FL01R-W@3'
2410467-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	93.9	%	1	BHJ1428	10/31/24	11/01/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/24/24 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.04	0.0100	mmhos/cm	1	BHJ1305	10/29/24	10/30/24	EPA 120.1	

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

Date Sampled: **10/24/24 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.89		pH Units	1	BHJ1304	10/29/24	10/30/24	EPA 9045D	

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Project: Noble - SH Farms C17-19

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
11/07/24 09:58

FL01-04@3'
2410467-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/24/24 11:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHJ1262	10/29/24	10/31/24	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: **10/24/24 11:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0428	107 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0408	102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0395	98.7 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/24/24 11:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHJ1265	10/29/24	10/30/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/24/24 11:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	16.3	130 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project Number: [none]
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FL01-04@3'
2410467-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/24/24 11:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHJ1244	10/29/24	10/30/24	EPA 8270D SIM	
Anthracene	0.00705	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	0.00877	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	0.00709	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	0.0102	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	0.00863	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	0.0259	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	0.00675	0.00500	"	"	"	"	"	"	
Pyrene	0.0189	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/24/24 11:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0208	62.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0216	64.8 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/24/24 11:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHJ1411	10/31/24	11/02/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/24/24 11:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - SH Farms C17-19

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
11/07/24 09:58

FL01-04@3'
2410467-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	1.96	0.200	mg/kg dry	1	BHK0007	11/01/24	11/01/24	EPA 6020B
Barium	63.7	0.400	"	"	"	"	"	"
Cadmium	0.290	0.200	"	"	"	"	"	"
Copper	16.7	0.400	"	"	"	"	"	"
Lead	16.5	0.200	"	"	"	"	"	"
Nickel	4.81	0.400	"	"	"	"	"	"
Silver	0.0276	0.0200	"	"	"	"	"	"
Zinc	72.8	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 10/24/24 11:06

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0131	11/04/24	11/06/24	EPA 7196A	

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

Date Sampled: 10/24/24 11:06

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	63.3	0.0500	mg/L dry	1	BHJ1303	10/29/24	10/31/24	EPA 6020B	
Magnesium	25.2	0.0500	"	"	"	"	"	"	
Sodium	151	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 10/24/24 11:06

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.06	0.00100	units	1	BHK0034	11/01/24	11/01/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 10/24/24 11:06

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 - SH Farms C17-19

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
11/07/24 09:58

FL01-04@3'
2410467-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	92.8	%	1	BHJ1428	10/31/24	11/01/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/24/24 11:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	4.01	0.0100	mmhos/cm	1	BHJ1305	10/29/24	10/30/24	EPA 120.1	

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

Date Sampled: **10/24/24 11:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.76		pH Units	1	BHJ1304	10/29/24	10/30/24	EPA 9045D	

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Project: Noble - SH Farms C17-19

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
11/07/24 09:58

FL01-06@3'
2410467-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/24/24 12:23**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHJ1262	10/29/24	10/31/24	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	0.010	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **10/24/24 12:23**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0421	105 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0404	101 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0402	100 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/24/24 12:23**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHJ1265	10/29/24	10/30/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **10/24/24 12:23**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	12.0	95.9 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Tasman Geosciences
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Project: Noble - SH Farms C17-19

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
11/07/24 09:58

FL01-06@3'
2410467-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/24/24 12:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	0.0192	0.00500	mg/kg	1	BHJ1244	10/29/24	10/30/24	EPA 8270D SIM	
Anthracene	0.0249	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	0.0292	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	0.0192	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	0.0284	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	0.00971	0.00500	"	"	"	"	"	"	
Chrysene	0.0280	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	0.0940	0.00500	"	"	"	"	"	"	
Fluorene	0.0196	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	0.0147	0.00500	"	"	"	"	"	"	
Pyrene	0.0632	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/24/24 12:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0226	67.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0238	71.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/24/24 12:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHJ1411	10/31/24	11/02/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/24/24 12:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.97	0.200	mg/kg dry	1	BHK0007	11/01/24	11/01/24	EPA 6020B	

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - SH Farms C17-19

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
11/07/24 09:58

FL01-06@3'
2410467-03 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	65.6	0.400	mg/kg dry	1	BHK0007	11/01/24	11/01/24	EPA 6020B	
Cadmium	0.295	0.200	"	"	"	"	"	"	
Copper	14.0	0.400	"	"	"	"	"	"	
Lead	12.1	0.200	"	"	"	"	"	"	
Nickel	4.54	0.400	"	"	"	"	"	"	
Silver	0.0282	0.0200	"	"	"	"	"	"	
Zinc	58.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/24/24 12:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0131	11/04/24	11/06/24	EPA 7196A	

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

Date Sampled: **10/24/24 12:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	113	0.0500	mg/L dry	1	BHJ1303	10/29/24	10/31/24	EPA 6020B	
Magnesium	83.6	0.0500	"	"	"	"	"	"	
Sodium	230	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/24/24 12:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.00	0.00100	units	1	BHK0034	11/01/24	11/01/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/24/24 12:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.4		%	1	BHJ1428	10/31/24	11/01/24	Calculation	

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

Project: Noble - SH Farms C17-19

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
11/07/24 09:58

FL01-06@3'
2410467-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/24/24 12:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.83	0.0100	mmhos/cm	1	BHJ1305	10/29/24	10/30/24	EPA 120.1	

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

Date Sampled: **10/24/24 12:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.27		pH Units	1	BHJ1304	10/29/24	10/30/24	EPA 9045D	

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Project: Noble - SH Farms C17-19

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
11/07/24 09:58

FL01-07@3'
2410467-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/24/24 12:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHJ1262	10/29/24	10/31/24	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: **10/24/24 12:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0420	105 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0404	101 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0403	101 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/24/24 12:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHJ1265	10/29/24	10/30/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **10/24/24 12:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	13.1	105 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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

Project: Noble - SH Farms C17-19

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
11/07/24 09:58

FL01-07@3'
2410467-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/24/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	0.0606	0.00500	mg/kg	1	BHJ1244	10/29/24	10/30/24	EPA 8270D SIM	
Anthracene	0.145	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	0.355	0.00500	"	"	"	"	"	"	E
Benzo (a) pyrene	0.266	0.00500	"	"	"	"	"	"	E
Benzo (b) fluoranthene	0.383	0.00500	"	"	"	"	"	"	E
Benzo (k) fluoranthene	0.125	0.00500	"	"	"	"	"	"	
Chrysene	0.365	0.00500	"	"	"	"	"	"	E
Dibenz (a,h) anthracene	0.0384	0.00500	"	"	"	"	"	"	
Fluoranthene	0.956	0.00500	"	"	"	"	"	"	E
Fluorene	0.0723	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	0.189	0.00500	"	"	"	"	"	"	
Pyrene	0.709	0.00500	"	"	"	"	"	"	E
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/24/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0199	59.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0221	66.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/24/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHJ1411	10/31/24	11/02/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/24/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.53	0.200	mg/kg dry	1	BHK0007	11/01/24	11/01/24	EPA 6020B	

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

Project: Noble - SH Farms C17-19

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
11/07/24 09:58

FL01-07@3'
2410467-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	83.7	0.400	mg/kg dry	1	BHK0007	11/01/24	11/01/24	EPA 6020B	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	5.90	0.400	"	"	"	"	"	"	
Lead	4.85	0.200	"	"	"	"	"	"	
Nickel	4.22	0.400	"	"	"	"	"	"	
Silver	0.0227	0.0200	"	"	"	"	"	"	
Zinc	18.4	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/24/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0131	11/04/24	11/06/24	EPA 7196A	

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

Date Sampled: **10/24/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	89.2	0.0500	mg/L dry	1	BHJ1303	10/29/24	10/31/24	EPA 6020B	
Magnesium	35.8	0.0500	"	"	"	"	"	"	
Sodium	91.1	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/24/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.06	0.00100	units	1	BHK0034	11/01/24	11/01/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/24/24 12:20**

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 - SH Farms C17-19

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
11/07/24 09:58

FL01-07@3'
2410467-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	94.0	%	1	BHJ1428	10/31/24	11/01/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/24/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.774	0.0100	mmhos/cm	1	BHJ1305	10/29/24	10/30/24	EPA 120.1	

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

Date Sampled: **10/24/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.24		pH Units	1	BHJ1304	10/29/24	10/30/24	EPA 9045D	

Summit Scientific

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - SH Farms C17-19

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
11/07/24 09:58

BKG01@0-6"
2410467-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/24/24 13:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHJ1262	10/29/24	10/31/24	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: **10/24/24 13:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0403	101 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0394	98.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0388	97.0 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/24/24 13:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHJ1265	10/29/24	10/30/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/24/24 13:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	11.5	92.0 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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

Project: Noble - SH Farms C17-19

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
11/07/24 09:58

BKG01@0-6"
2410467-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/24/24 13:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHJ1244	10/29/24	10/30/24	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: **10/24/24 13:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0201	60.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0202	60.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/24/24 13:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHJ1411	10/31/24	11/02/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/24/24 13:28**

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 - SH Farms C17-19

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
11/07/24 09:58

BKG01@0-6''
2410467-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.93	0.200	mg/kg dry	1	BHK0007	11/01/24	11/01/24	EPA 6020B	
Barium	99.9	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	15.2	0.400	"	"	"	"	"	"	
Lead	5.58	0.200	"	"	"	"	"	"	
Nickel	4.02	0.400	"	"	"	"	"	"	
Silver	0.0217	0.0200	"	"	"	"	"	"	
Zinc	26.3	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/24/24 13:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0131	11/04/24	11/06/24	EPA 7196A	

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

Date Sampled: **10/24/24 13:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	51.6	0.0500	mg/L dry	1	BHJ1303	10/29/24	10/31/24	EPA 6020B	
Magnesium	11.7	0.0500	"	"	"	"	"	"	
Sodium	39.2	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/24/24 13:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.28	0.00100	units	1	BHK0034	11/01/24	11/01/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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

Project: Noble - SH Farms C17-19

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
11/07/24 09:58

BKG01@0-6''
2410467-05 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/24/24 13:28**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	95.3			%	1	BHJ1428	10/31/24	11/01/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/24/24 13:28**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	2.06	0.0100		mmhos/cm	1	BHJ1305	10/29/24	10/30/24	EPA 120.1	

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

Date Sampled: **10/24/24 13:28**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.83			pH Units	1	BHJ1304	10/29/24	10/30/24	EPA 9045D	

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Broomfield CO, 80020

Project: Noble - SH Farms C17-19

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
11/07/24 09:58

BKG01@3'
2410467-06 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/24/24 13:29**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHJ1262	10/29/24	10/31/24	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: **10/24/24 13:29**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0420	105 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0404	101 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0410	102 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/24/24 13:29**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHJ1265	10/29/24	10/30/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **10/24/24 13:29**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	11.2	89.7 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Tasman Geosciences
6855 W. 119th Ave.
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Project: Noble - SH Farms C17-19

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
11/07/24 09:58

BKG01@3'
2410467-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/24/24 13:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHJ1244	10/29/24	10/30/24	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: **10/24/24 13:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0244	73.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0229	68.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/24/24 13:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHJ1411	10/31/24	11/02/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/24/24 13:29**

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

Project: Noble - SH Farms C17-19

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
11/07/24 09:58

BKG01@3'
2410467-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	3.07	0.200	mg/kg dry	1	BHK0007	11/01/24	11/01/24	EPA 6020B
Barium	81.0	0.400	"	"	"	"	"	"
Cadmium	0.226	0.200	"	"	"	"	"	"
Copper	6.29	0.400	"	"	"	"	"	"
Lead	8.22	0.200	"	"	"	"	"	"
Nickel	5.36	0.400	"	"	"	"	"	"
Silver	0.0331	0.0200	"	"	"	"	"	"
Zinc	20.6	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/24/24 13:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0131	11/04/24	11/06/24	EPA 7196A	

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

Date Sampled: **10/24/24 13:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	184	0.0500	mg/L dry	1	BHJ1303	10/29/24	10/31/24	EPA 6020B	
Magnesium	47.5	0.0500	"	"	"	"	"	"	
Sodium	149	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/24/24 13:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.53	0.00100	units	1	BHK0034	11/01/24	11/01/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/24/24 13:29**

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 - SH Farms C17-19

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
11/07/24 09:58

BKG01@3'
2410467-06 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	92.9	%	1	BHJ1428	10/31/24	11/01/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/24/24 13:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.44	0.0100	mmhos/cm	1	BHJ1305	10/29/24	10/30/24	EPA 120.1	

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

Date Sampled: **10/24/24 13:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.94		pH Units	1	BHJ1304	10/29/24	10/30/24	EPA 9045D	

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - SH Farms C17-19

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
11/07/24 09:58

BKG01@4'
2410467-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/24/24 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHJ1262	10/29/24	10/31/24	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: **10/24/24 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0434	108 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0404	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0401	100 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/24/24 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHJ1265	10/29/24	10/30/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/24/24 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	12.2	97.6 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Noble - SH Farms C17-19

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
11/07/24 09:58

BKG01@4'
2410467-07 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/24/24 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHJ1244	10/29/24	10/30/24	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: **10/24/24 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0221	66.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0212	63.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/24/24 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHJ1411	10/31/24	11/02/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/24/24 13:30**

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

Project: Noble - SH Farms C17-19

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
11/07/24 09:58

BKG01@4'
2410467-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.48	0.200	mg/kg dry	1	BHK0007	11/01/24	11/01/24	EPA 6020B	
Barium	81.7	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	4.60	0.400	"	"	"	"	"	"	
Lead	6.63	0.200	"	"	"	"	"	"	
Nickel	5.75	0.400	"	"	"	"	"	"	
Silver	0.0410	0.0200	"	"	"	"	"	"	
Zinc	19.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/24/24 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0131	11/04/24	11/06/24	EPA 7196A	

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

Date Sampled: **10/24/24 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	133	0.0500	mg/L dry	1	BHJ1303	10/29/24	10/31/24	EPA 6020B	
Magnesium	36.3	0.0500	"	"	"	"	"	"	
Sodium	141	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/24/24 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.80	0.00100	units	1	BHK0034	11/01/24	11/01/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
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Project: Noble - SH Farms C17-19

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
11/07/24 09:58

BKG01@4'
2410467-07 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/24/24 13:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	91.4			%	1	BHJ1428	10/31/24	11/01/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/24/24 13:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	1.85	0.0100		mmhos/cm	1	BHJ1305	10/29/24	10/30/24	EPA 120.1	

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

Date Sampled: **10/24/24 13:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.14			pH Units	1	BHJ1304	10/29/24	10/30/24	EPA 9045D	

Summit Scientific

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

Project: Noble - SH Farms C17-19

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
11/07/24 09:58

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 BHJ1262 - EPA 5030 Soil MS

Blank (BHJ1262-BLK1)

Prepared: 10/29/24 Analyzed: 10/30/24

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	0.0423		"	0.0400		106	50-150				
Surrogate: Toluene-d8	0.0404		"	0.0400		101	50-150				
Surrogate: 4-Bromofluorobenzene	0.0386		"	0.0400		96.4	50-150				

LCS (BHJ1262-BS1)

Prepared: 10/29/24 Analyzed: 10/30/24

Benzene	0.0990	0.0020	mg/kg	0.100		99.0	70-130				
Toluene	0.108	0.0050	"	0.100		108	70-130				
Ethylbenzene	0.0979	0.0050	"	0.100		97.9	70-130				
m,p-Xylene	0.202	0.010	"	0.200		101	70-130				
o-Xylene	0.0979	0.0050	"	0.100		97.9	70-130				
1,2,4-Trimethylbenzene	0.0974	0.0050	"	0.100		97.4	70-130				
1,3,5-Trimethylbenzene	0.0940	0.0050	"	0.100		94.0	70-130				
Naphthalene	0.104	0.0038	"	0.100		104	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.0410		"	0.0400		102	50-150				
Surrogate: Toluene-d8	0.0399		"	0.0400		99.7	50-150				
Surrogate: 4-Bromofluorobenzene	0.0393		"	0.0400		98.2	50-150				

Matrix Spike (BHJ1262-MS1)

Source: 2410459-01

Prepared: 10/29/24 Analyzed: 10/30/24

Benzene	0.0971	0.0020	mg/kg	0.100	ND	97.1	70-130				
Toluene	0.0965	0.0050	"	0.100	ND	96.5	70-130				
Ethylbenzene	0.0943	0.0050	"	0.100	ND	94.3	70-130				
m,p-Xylene	0.191	0.010	"	0.200	ND	95.4	70-130				
o-Xylene	0.0945	0.0050	"	0.100	ND	94.5	70-130				
1,2,4-Trimethylbenzene	0.0906	0.0050	"	0.100	ND	90.6	70-130				
1,3,5-Trimethylbenzene	0.0900	0.0050	"	0.100	ND	90.0	70-130				
Naphthalene	0.0958	0.0038	"	0.100	ND	95.8	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.0421		"	0.0400		105	50-150				
Surrogate: Toluene-d8	0.0399		"	0.0400		99.8	50-150				
Surrogate: 4-Bromofluorobenzene	0.0399		"	0.0400		99.8	50-150				

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6855 W. 119th Ave.
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Project: Noble - SH Farms C17-19

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
11/07/24 09:58

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 BHJ1262 - EPA 5030 Soil MS

Matrix Spike Dup (BHJ1262-MSD1)	Source: 2410459-01			Prepared: 10/29/24 Analyzed: 10/30/24						
Benzene	0.0947	0.0020	mg/kg	0.100	ND	94.7	70-130	2.53	30	
Toluene	0.0936	0.0050	"	0.100	ND	93.6	70-130	3.06	30	
Ethylbenzene	0.0916	0.0050	"	0.100	ND	91.6	70-130	2.97	30	
m,p-Xylene	0.182	0.010	"	0.200	ND	91.1	70-130	4.61	30	
o-Xylene	0.0909	0.0050	"	0.100	ND	90.9	70-130	3.88	30	
1,2,4-Trimethylbenzene	0.0882	0.0050	"	0.100	ND	88.2	70-130	2.65	30	
1,3,5-Trimethylbenzene	0.0868	0.0050	"	0.100	ND	86.8	70-130	3.63	30	
Naphthalene	0.0935	0.0038	"	0.100	ND	93.5	70-130	2.44	30	
Surrogate: 1,2-Dichloroethane-d4	0.0406		"	0.0400		102	50-150			
Surrogate: Toluene-d8	0.0404		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0392		"	0.0400		98.0	50-150			

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Project: Noble - SH Farms C17-19

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
11/07/24 09:58

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BHJ1265 - EPA 3550A

Blank (BHJ1265-BLK1)

Prepared: 10/29/24 Analyzed: 10/30/24

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: <i>o</i> -Terphenyl	13.2		"	12.5		106	30-150			

LCS (BHJ1265-BS1)

Prepared: 10/29/24 Analyzed: 10/30/24

C10-C28 (DRO)	401	50	mg/kg	500		80.2	70-130			
Surrogate: <i>o</i> -Terphenyl	12.3		"	12.5		98.3	30-150			

Matrix Spike (BHJ1265-MS1)

Source: 2410459-01

Prepared: 10/29/24 Analyzed: 10/30/24

C10-C28 (DRO)	401	50	mg/kg	500	ND	80.2	70-130			
Surrogate: <i>o</i> -Terphenyl	10.9		"	12.5		87.0	30-150			

Matrix Spike Dup (BHJ1265-MSD1)

Source: 2410459-01

Prepared: 10/29/24 Analyzed: 10/30/24

C10-C28 (DRO)	450	50	mg/kg	500	ND	89.9	70-130	11.4	20	
Surrogate: <i>o</i> -Terphenyl	11.6		"	12.5		92.6	30-150			

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Project: Noble - SH Farms C17-19

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
11/07/24 09:58

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 BHJ1244 - EPA 5030 Soil MS

Blank (BHJ1244-BLK1)

Prepared & Analyzed: 10/29/24

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	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0212</i>		"	<i>0.0333</i>		<i>63.7</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0243</i>		"	<i>0.0333</i>		<i>72.8</i>	<i>40-150</i>			

LCS (BHJ1244-BS1)

Prepared & Analyzed: 10/29/24

Acenaphthene	0.0240	0.00500	mg/kg	0.0333		72.1	31-137			
Anthracene	0.0239	0.00500	"	0.0333		71.8	30-120			
Benzo (a) anthracene	0.0251	0.00500	"	0.0333		75.2	30-120			
Benzo (a) pyrene	0.0228	0.00500	"	0.0333		68.4	30-120			
Benzo (b) fluoranthene	0.0243	0.00500	"	0.0333		73.0	30-120			
Benzo (k) fluoranthene	0.0245	0.00500	"	0.0333		73.5	30-120			
Chrysene	0.0238	0.00500	"	0.0333		71.5	30-120			
Dibenz (a,h) anthracene	0.0195	0.00500	"	0.0333		58.4	30-120			
Fluoranthene	0.0250	0.00500	"	0.0333		75.1	30-120			
Fluorene	0.0246	0.00500	"	0.0333		73.8	30-120			
Indeno (1,2,3-cd) pyrene	0.0143	0.00500	"	0.0333		43.0	30-120			
Pyrene	0.0242	0.00500	"	0.0333		72.5	35-142			
1-Methylnaphthalene	0.0233	0.00500	"	0.0333		69.9	35-142			
2-Methylnaphthalene	0.0232	0.00500	"	0.0333		69.7	35-142			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0235</i>		"	<i>0.0333</i>		<i>70.4</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0255</i>		"	<i>0.0333</i>		<i>76.6</i>	<i>40-150</i>			

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Project: Noble - SH Farms C17-19

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
11/07/24 09:58

PAH by EPA Method 8270D SIM - Quality Control

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

Batch BHJ1244 - EPA 5030 Soil MS

Matrix Spike (BHJ1244-MS1)	Source: 2410447-01			Prepared & Analyzed: 10/29/24							
Acenaphthene	0.0180	0.00500	mg/kg	0.0333	ND	54.0	31-137				
Anthracene	0.0173	0.00500	"	0.0333	ND	51.8	30-120				
Benzo (a) anthracene	0.0174	0.00500	"	0.0333	ND	52.3	30-120				
Benzo (a) pyrene	0.0164	0.00500	"	0.0333	ND	49.3	30-120				
Benzo (b) fluoranthene	0.0165	0.00500	"	0.0333	ND	49.5	30-120				
Benzo (k) fluoranthene	0.0168	0.00500	"	0.0333	ND	50.5	30-120				
Chrysene	0.0172	0.00500	"	0.0333	ND	51.6	30-120				
Dibenz (a,h) anthracene	0.0140	0.00500	"	0.0333	ND	42.1	30-120				
Fluoranthene	0.0169	0.00500	"	0.0333	ND	50.7	30-120				
Fluorene	0.0186	0.00500	"	0.0333	ND	55.7	30-120				
Indeno (1,2,3-cd) pyrene	0.0135	0.00500	"	0.0333	ND	40.5	30-120				
Pyrene	0.0173	0.00500	"	0.0333	ND	52.0	35-142				
1-Methylnaphthalene	0.0186	0.00500	"	0.0333	ND	55.9	15-130				
2-Methylnaphthalene	0.0184	0.00500	"	0.0333	ND	55.3	15-130				
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0187</i>		<i>"</i>	<i>0.0333</i>		<i>56.2</i>	<i>40-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0175</i>		<i>"</i>	<i>0.0333</i>		<i>52.6</i>	<i>40-150</i>				

Matrix Spike Dup (BHJ1244-MSD1)	Source: 2410447-01			Prepared & Analyzed: 10/29/24							
Acenaphthene	0.0222	0.00500	mg/kg	0.0333	ND	66.6	31-137	20.9	30		
Anthracene	0.0215	0.00500	"	0.0333	ND	64.5	30-120	21.8	30		
Benzo (a) anthracene	0.0221	0.00500	"	0.0333	ND	66.4	30-120	23.7	30		
Benzo (a) pyrene	0.0204	0.00500	"	0.0333	ND	61.1	30-120	21.3	30		
Benzo (b) fluoranthene	0.0207	0.00500	"	0.0333	ND	62.1	30-120	22.7	30		
Benzo (k) fluoranthene	0.0206	0.00500	"	0.0333	ND	61.7	30-120	20.0	30		
Chrysene	0.0213	0.00500	"	0.0333	ND	64.0	30-120	21.4	30		
Dibenz (a,h) anthracene	0.0187	0.00500	"	0.0333	ND	56.1	30-120	28.5	30		
Fluoranthene	0.0226	0.00500	"	0.0333	ND	67.8	30-120	28.9	30		
Fluorene	0.0227	0.00500	"	0.0333	ND	68.0	30-120	19.8	30		
Indeno (1,2,3-cd) pyrene	0.0137	0.00500	"	0.0333	ND	41.0	30-120	1.15	30		
Pyrene	0.0217	0.00500	"	0.0333	ND	65.0	35-142	22.2	30		
1-Methylnaphthalene	0.0224	0.00500	"	0.0333	ND	67.1	15-130	18.3	50		
2-Methylnaphthalene	0.0223	0.00500	"	0.0333	ND	66.9	15-130	18.9	50		
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0226</i>		<i>"</i>	<i>0.0333</i>		<i>67.7</i>	<i>40-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0229</i>		<i>"</i>	<i>0.0333</i>		<i>68.7</i>	<i>40-150</i>				

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Broomfield CO, 80020

Project: Noble - SH Farms C17-19

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
11/07/24 09:58

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 BHJ1411 - EPA 3050B

Blank (BHJ1411-BLK1)

Prepared: 10/31/24 Analyzed: 11/02/24

Boron ND 2.00 mg/L

LCS (BHJ1411-BS1)

Prepared: 10/31/24 Analyzed: 11/02/24

Boron 5.08 2.00 mg/L 5.00 102 80-120

Duplicate (BHJ1411-DUP1)

Source: 2410465-21

Prepared: 10/31/24 Analyzed: 11/02/24

Boron 0.430 2.00 mg/L 0.390 9.66 20

Matrix Spike (BHJ1411-MS1)

Source: 2410465-21

Prepared: 10/31/24 Analyzed: 11/02/24

Boron 5.36 2.00 mg/L 5.03 0.390 98.9 75-125

Matrix Spike Dup (BHJ1411-MSD1)

Source: 2410465-21

Prepared: 10/31/24 Analyzed: 11/02/24

Boron 5.37 2.00 mg/L 5.03 0.390 99.0 75-125 0.120 25

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Project: Noble - SH Farms C17-19

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
11/07/24 09:58

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 BHK0007 - EPA 3050B

Blank (BHK0007-BLK1)

Prepared & Analyzed: 11/01/24

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 (BHK0007-BS1)

Prepared & Analyzed: 11/01/24

Arsenic	35.7	0.200	mg/kg wet	40.7	87.8	80-120
Barium	36.7	0.400	"	40.7	90.3	80-120
Cadmium	1.85	0.200	"	2.03	91.0	80-120
Copper	39.1	0.400	"	40.7	96.2	80-120
Lead	18.3	0.200	"	20.3	89.8	80-120
Nickel	38.6	0.400	"	40.7	95.0	80-120
Silver	1.85	0.0200	"	2.03	90.9	80-120
Zinc	38.8	0.400	"	40.7	95.5	80-120
Selenium	3.75	0.260	"	4.07	92.3	80-120

Duplicate (BHK0007-DUP1)

Source: 2410467-01

Prepared & Analyzed: 11/01/24

Arsenic	2.24	0.200	mg/kg dry	2.26	0.755	20
Barium	90.4	0.400	"	85.9	5.08	20
Cadmium	0.173	0.200	"	0.188	7.98	20
Copper	6.76	0.400	"	6.13	9.88	20
Lead	9.02	0.200	"	7.91	13.1	20
Nickel	4.05	0.400	"	3.93	3.13	20
Silver	0.0253	0.0200	"	0.0279	9.84	20
Zinc	67.8	0.400	"	62.0	8.88	20
Selenium	ND	0.260	"	ND		20

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Project: Noble - SH Farms C17-19

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
11/07/24 09:58

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 BHK0007 - EPA 3050B

Matrix Spike (BHK0007-MS1)	Source: 2410467-01			Prepared & Analyzed: 11/01/24								
Arsenic	39.2	0.200	mg/kg dry	44.4	2.26	83.3	75-125					
Barium	123	0.400	"	44.4	85.9	82.8	75-125					
Cadmium	2.20	0.200	"	2.22	0.188	90.8	75-125					
Copper	34.4	0.400	"	44.4	6.13	63.7	75-125					QM-05
Lead	26.2	0.200	"	22.2	7.91	82.7	75-125					
Nickel	32.0	0.400	"	44.4	3.93	63.4	75-125					QM-05
Silver	2.00	0.0200	"	2.22	0.0279	89.0	75-125					
Zinc	109	0.400	"	44.4	62.0	105	75-125					
Selenium	3.45	0.260	"	4.44	ND	77.8	75-125					

Matrix Spike Dup (BHK0007-MSD1)	Source: 2410467-01			Prepared & Analyzed: 11/01/24								
Arsenic	40.6	0.200	mg/kg dry	44.0	2.26	87.1	75-125	3.48	25			
Barium	124	0.400	"	44.0	85.9	87.2	75-125	1.32	25			
Cadmium	2.21	0.200	"	2.20	0.188	91.9	75-125	0.352	25			
Copper	32.4	0.400	"	44.0	6.13	59.8	75-125	5.82	25			QM-05
Lead	26.7	0.200	"	22.0	7.91	85.3	75-125	1.61	25			
Nickel	30.1	0.400	"	44.0	3.93	59.5	75-125	6.19	25			QM-05
Silver	1.98	0.0200	"	2.20	0.0279	88.8	75-125	1.05	25			
Zinc	76.3	0.400	"	44.0	62.0	32.4	75-125	35.1	25			QM-05
Selenium	3.41	0.260	"	4.40	ND	77.5	75-125	1.20	25			

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Project: Noble - SH Farms C17-19

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
11/07/24 09:58

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BHK0131 - 3060A Mod

Blank (BHK0131-BLK1)

Prepared: 11/04/24 Analyzed: 11/06/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHK0131-BS1)

Prepared: 11/04/24 Analyzed: 11/06/24

Chromium, Hexavalent 26.6 0.30 mg/kg wet 25.0 106 80-120

Duplicate (BHK0131-DUP1)

Source: 2410467-01

Prepared: 11/04/24 Analyzed: 11/06/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHK0131-MS1)

Source: 2410467-01

Prepared: 11/04/24 Analyzed: 11/06/24

Chromium, Hexavalent 27.6 0.30 mg/kg dry 26.6 ND 104 75-125

Matrix Spike Dup (BHK0131-MSD1)

Source: 2410467-01

Prepared: 11/04/24 Analyzed: 11/06/24

Chromium, Hexavalent 27.5 0.30 mg/kg dry 26.6 ND 103 75-125 0.193 20

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Project: Noble - SH Farms C17-19

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
11/07/24 09:58

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

Summit Scientific

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

Batch BHJ1303 - General Preparation

Blank (BHJ1303-BLK1)

Prepared: 10/29/24 Analyzed: 10/31/24

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

LCS (BHJ1303-BS1)

Prepared: 10/29/24 Analyzed: 10/31/24

Calcium	5.04	0.0500	mg/L wet	5.00	101	70-130
Magnesium	5.42	0.0500	"	5.00	108	70-130
Sodium	5.26	0.0500	"	5.00	105	70-130

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Project: Noble - SH Farms C17-19

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
11/07/24 09:58

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 BHJ1428 - General Preparation

Duplicate (BHJ1428-DUP1)	Source: 2410405-01			Prepared: 10/31/24 Analyzed: 11/01/24	
% Solids	94.7		%	93.8	0.988 20

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Project: Noble - SH Farms C17-19

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
11/07/24 09:58

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

Summit Scientific

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

Batch BHJ1305 - General Preparation

Blank (BHJ1305-BLK1)

Prepared: 10/29/24 Analyzed: 10/30/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHJ1305-BS1)

Prepared: 10/29/24 Analyzed: 10/30/24

Specific Conductance (EC) 0.157 0.0100 mmhos/cm 0.150 105 95-105

Duplicate (BHJ1305-DUP1)

Source: 2410406-01

Prepared: 10/29/24 Analyzed: 10/30/24

Specific Conductance (EC) 0.206 0.0100 mmhos/cm 0.206 0.0972 20

Summit Scientific

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



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

Project: Noble - SH Farms C17-19

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
11/07/24 09:58

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 BHJ1304 - General Preparation

LCS (BHJ1304-BS1)

Prepared: 10/29/24 Analyzed: 10/30/24

pH	9.18	pH Units	9.18	100	95-105
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Duplicate (BHJ1304-DUP1)

Source: 2410406-01

Prepared: 10/29/24 Analyzed: 10/30/24

pH	5.78	pH Units	5.72	1.04	20
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Summit Scientific

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Notes and Definitions

- 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