

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

September 18, 2024

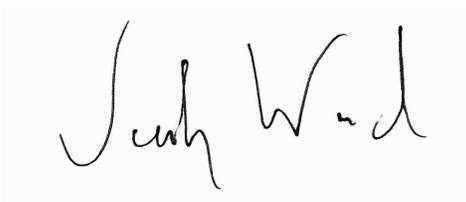
Jacob Whritenour
Tasman Geosciences
6855 W. 119th Ave.
Broomfield, CO 80020

RE: Noble - Hanscome C28-29D

Work Order #2409216

Enclosed are the results of analyses for samples received by Summit Scientific on 09/16/24 17:36. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Jacob Wood". The signature is written in a cursive style with a large initial "J" and a distinct "W".

Jacob Wood For Paul Shrewsbury
President



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

Project: Noble - Hanscome C28-29D

Project Number: UWRWE-A3226-ABN
Project Manager: Jacob Whritenour

Reported:
09/18/24 15:41

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS05-FL01-01@3'	2409216-01	Soil	09/16/24 11:54	09/16/24 17:36
SS06-FL01-01@3'	2409216-02	Soil	09/16/24 11:34	09/16/24 17:36
SS07-FL01-01@3'	2409216-03	Soil	09/16/24 11:43	09/16/24 17:36
SS08-FL01-01@1'	2409216-04	Soil	09/16/24 11:45	09/16/24 17:36
SS09-FL01-01@3'	2409216-05	Soil	09/16/24 11:47	09/16/24 17:36
FS02-FL01-01@4'	2409216-06	Soil	09/16/24 12:00	09/16/24 17:36
BKG06@3'	2409216-07	Soil	09/16/24 10:52	09/16/24 17:36
BKG06@4'	2409216-08	Soil	09/16/24 10:59	09/16/24 17:36

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

Lab ID	Page 1 of 1
2109214	

		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: Hanscome (28-29D)
City/State/Zip: Broomfield/CO/ 80020			AFE#:
Phone: 937-554-5108	Project Name: Hanscome (28-29D)		PO/Billing Codes:
Sampler Name: Molly Parks	Project Number:		Contact: Keith mclean

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested							Special Instructions		
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	Metals - 915	VOC - 915	TPH - 915	PAH - 915	SAR, EC, pH	Boron - HWS		HOLD	
1	SS05-FL01-01 @ 3'	09-16-24	1154	2			X			X			X	X	X	X	X	X	X		SAR, EC, pH by saturated paste
2	SS06-FL01-01 @ 3'		1134										X	X	X	X	X	X	X		
3	SS07-FL01-01 @ 3'		1143										X	X	X	X	X	X	X		
4	SS08-FL01-01 @ 1'		1145										X	X	X	X	X	X	X		
5	SS09-FL01-01 @ 3'		1147										X	X	X	X	X	X	X		
6	FS02-FL01-01 @ 4'		1200										X	X	X	X	X	X	X		
7	BK606 @ 3'		1052										X	X	X	X	X	X	X		
8	BK606 @ 4'		1059										X	X	X	X	X	X	X		
9																					
10																					
11																					
12																					
13																					
14																					
15																					

Relinquished by: MP	Date/Time: 09-16-24 / 1503	Received by: Tasman Lock Box	Date/Time: 09-16-24 / 1503	TAT Business Days	Field DO	Notes:	
				Same Day	X		Field EC
Relinquished by: Tasman Lock Box	Date/Time: 9/16/24 1730	Received by: [Signature]	Date/Time: 9/16/24 1734	1 Day			Field ORP
				2 Days			Field pH
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days			Field Temp.
				Standard		Field Turb.	
Temperature Upon Receipt: 7.3	Corrected Temperature: 7.3	IR gun #:		HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2409216

Client: Naveh Asman Client Project ID: Harscome C28-290

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"/>	
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	once
Are samples due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Same day
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

9/16/24

Date/Time



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

Project: Noble - Hanscome C28-29D

Project Number: UWRWE-A3226-ABN
Project Manager: Jacob Whritenour

Reported:
09/18/24 15:41

SS05-FL01-01@3'
2409216-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/16/24 11:54**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHI0518	09/16/24	09/17/24	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: **09/16/24 11:54**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0466	117 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0391	97.6 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0404	101 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/16/24 11:54**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHI0519	09/16/24	09/16/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **09/16/24 11:54**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	9.87	78.9 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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2409216-01 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **09/16/24 11:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHI0527	09/17/24	09/17/24	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: **09/16/24 11:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0199	59.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0218	65.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/16/24 11:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHI0537	09/17/24	09/17/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/16/24 11:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Manager: Jacob Whritenour

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2409216-01 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	3.55	0.200	mg/kg dry	1	BHI0530	09/17/24	09/17/24	EPA 6020B
Barium	76.4	0.400	"	"	"	"	"	"
Cadmium	0.214	0.200	"	"	"	"	"	"
Copper	4.56	0.400	"	"	"	"	"	"
Lead	7.20	0.200	"	"	"	"	"	"
Nickel	5.18	0.400	"	"	"	"	"	"
Silver	0.0651	0.0200	"	"	"	"	"	"
Zinc	20.8	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/16/24 11:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHI0540	09/17/24	09/17/24	EPA 7196A	

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

Date Sampled: **09/16/24 11:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	31.9	0.0500	mg/L dry	1	BHI0516	09/16/24	09/17/24	EPA 6020B	
Magnesium	14.0	0.0500	"	"	"	"	"	"	
Sodium	111	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/16/24 11:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.12	0.00100	units	1	BHI0579	09/18/24	09/18/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/16/24 11:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Reported:
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SS05-FL01-01@3'
2409216-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	90.9	%	1	BHI0523	09/17/24	09/17/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/16/24 11:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.26	0.0100	mmhos/cm	1	BHI0517	09/16/24	09/17/24	EPA 120.1	

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

Date Sampled: **09/16/24 11:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.13		pH Units	1	BHI0520	09/16/24	09/17/24	EPA 9045D	

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Project: Noble - Hanscome C28-29D
Project Number: UWRWE-A3226-ABN
Project Manager: Jacob Whritenour

Reported:
09/18/24 15:41

SS06-FL01-01@3'
2409216-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/16/24 11:34**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHI0518	09/16/24	09/16/24	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: **09/16/24 11:34**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0438	109 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0398	99.5 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0405	101 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/16/24 11:34**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHI0519	09/16/24	09/16/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **09/16/24 11:34**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	8.85	70.8 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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PAH by EPA Method 8270D SIM

Date Sampled: **09/16/24 11:34**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHI0527	09/17/24	09/17/24	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: **09/16/24 11:34**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0179	53.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0175	52.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/16/24 11:34**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHI0537	09/17/24	09/17/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/16/24 11:34**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Manager: Jacob Whritenour

Reported:
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SS06-FL01-01@3'
2409216-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	4.08	0.200	mg/kg dry	1	BHI0530	09/17/24	09/17/24	EPA 6020B
Barium	84.4	0.400	"	"	"	"	"	"
Cadmium	0.218	0.200	"	"	"	"	"	"
Copper	4.96	0.400	"	"	"	"	"	"
Lead	8.10	0.200	"	"	"	"	"	"
Nickel	5.65	0.400	"	"	"	"	"	"
Silver	0.0474	0.0200	"	"	"	"	"	"
Zinc	21.3	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/16/24 11:34**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHI0540	09/17/24	09/17/24	EPA 7196A	

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

Date Sampled: **09/16/24 11:34**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	28.8	0.0500	mg/L dry	1	BHI0516	09/16/24	09/17/24	EPA 6020B	
Magnesium	9.29	0.0500	"	"	"	"	"	"	
Sodium	75.8	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/16/24 11:34**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.14	0.00100	units	1	BHI0579	09/18/24	09/18/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/16/24 11:34**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Reported:
09/18/24 15:41

SS06-FL01-01@3'
2409216-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	88.9	%	1	BHI0523	09/17/24	09/17/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/16/24 11:34**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.964	0.0100	mmhos/cm	1	BHI0517	09/16/24	09/17/24	EPA 120.1	

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

Date Sampled: **09/16/24 11:34**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.08		pH Units	1	BHI0520	09/16/24	09/17/24	EPA 9045D	

Summit Scientific

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

Project: Noble - Hanscome C28-29D
Project Number: UWRWE-A3226-ABN
Project Manager: Jacob Whritenour

Reported:
09/18/24 15:41

SS07-FL01-01@3'
2409216-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/16/24 11:43**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BHI0518	09/16/24	09/16/24	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: **09/16/24 11:43**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0421	105 %	50-150	"	"	"	"	"	
Surrogate: Toluene-d8	0.0400	99.9 %	50-150	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0401	100 %	50-150	"	"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/16/24 11:43**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BHI0519	09/16/24	09/16/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/16/24 11:43**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	10.2	81.6 %	30-150	"	"	"	"	"	

PAH by EPA Method 8270D SIM

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

Project: Noble - Hanscome C28-29D
Project Number: UWRWE-A3226-ABN
Project Manager: Jacob Whritenour

Reported:
09/18/24 15:41

SS07-FL01-01@3'
2409216-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/16/24 11:43**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHI0527	09/17/24	09/17/24	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: **09/16/24 11:43**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0201	60.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0211	63.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/16/24 11:43**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHI0537	09/17/24	09/17/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/16/24 11:43**

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

Project: Noble - Hanscome C28-29D

Project Number: UWRWE-A3226-ABN
Project Manager: Jacob Whritenour

Reported:
09/18/24 15:41

SS07-FL01-01@3'
2409216-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	3.45	0.200	mg/kg dry	1	BHI0530	09/17/24	09/17/24	EPA 6020B
Barium	54.3	0.400	"	"	"	"	"	"
Cadmium	0.255	0.200	"	"	"	"	"	"
Copper	4.54	0.400	"	"	"	"	"	"
Lead	5.97	0.200	"	"	"	"	"	"
Nickel	5.00	0.400	"	"	"	"	"	"
Silver	0.0216	0.0200	"	"	"	"	"	"
Zinc	18.7	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/16/24 11:43**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHI0540	09/17/24	09/17/24	EPA 7196A	

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

Date Sampled: **09/16/24 11:43**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	40.6	0.0500	mg/L dry	1	BHI0516	09/16/24	09/17/24	EPA 6020B	
Magnesium	14.9	0.0500	"	"	"	"	"	"	
Sodium	106	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/16/24 11:43**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.62	0.00100	units	1	BHI0579	09/18/24	09/18/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/16/24 11:43**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Hanscome C28-29D

Project Number: UWRWE-A3226-ABN
Project Manager: Jacob Whritenour

Reported:
09/18/24 15:41

SS07-FL01-01@3'
2409216-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	94.2	%	1	BHI0523	09/17/24	09/17/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/16/24 11:43**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.18	0.0100	mmhos/cm	1	BHI0517	09/16/24	09/17/24	EPA 120.1	

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

Date Sampled: **09/16/24 11:43**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.07		pH Units	1	BHI0520	09/16/24	09/17/24	EPA 9045D	

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Project: Noble - Hanscome C28-29D
Project Number: UWRWE-A3226-ABN
Project Manager: Jacob Whritenour

Reported:
09/18/24 15:41

SS08-FL01-01@1'
2409216-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/16/24 11:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BHI0518	09/16/24	09/16/24	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: **09/16/24 11:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0488	122 %	50-150	"	"	"	"	"	
Surrogate: Toluene-d8	0.0405	101 %	50-150	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0401	100 %	50-150	"	"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/16/24 11:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BHI0519	09/16/24	09/16/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/16/24 11:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	9.06	72.5 %	30-150	"	"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Noble - Hanscome C28-29D
Project Number: UWRWE-A3226-ABN
Project Manager: Jacob Whritenour

Reported:
09/18/24 15:41

SS08-FL01-01@1'
2409216-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/16/24 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHI0527	09/17/24	09/17/24	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: **09/16/24 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0203	60.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0214	64.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/16/24 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHI0537	09/17/24	09/17/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/16/24 11:45**

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 - Hanscome C28-29D

Project Number: UWRWE-A3226-ABN
Project Manager: Jacob Whritenour

Reported:
09/18/24 15:41

SS08-FL01-01@1'
2409216-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	2.73	0.200	mg/kg dry	1	BHI0530	09/17/24	09/17/24	EPA 6020B
Barium	56.2	0.400	"	"	"	"	"	"
Cadmium	0.206	0.200	"	"	"	"	"	"
Copper	4.76	0.400	"	"	"	"	"	"
Lead	7.12	0.200	"	"	"	"	"	"
Nickel	4.17	0.400	"	"	"	"	"	"
Silver	0.0291	0.0200	"	"	"	"	"	"
Zinc	19.4	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/16/24 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHI0540	09/17/24	09/17/24	EPA 7196A	

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

Date Sampled: **09/16/24 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	159	0.0500	mg/L dry	1	BHI0516	09/16/24	09/17/24	EPA 6020B	
Magnesium	55.6	0.0500	"	"	"	"	"	"	
Sodium	238	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/16/24 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.14	0.00100	units	1	BHI0579	09/18/24	09/18/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/16/24 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Broomfield CO, 80020

Project: Noble - Hanscome C28-29D

Project Number: UWRWE-A3226-ABN
Project Manager: Jacob Whritenour

Reported:
09/18/24 15:41

SS08-FL01-01@1'
2409216-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	92.2	%	1	BHI0523	09/17/24	09/17/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/16/24 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.12	0.0100	mmhos/cm	1	BHI0517	09/16/24	09/17/24	EPA 120.1	

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

Date Sampled: **09/16/24 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.62		pH Units	1	BHI0520	09/16/24	09/17/24	EPA 9045D	

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Broomfield CO, 80020

Project: Noble - Hanscome C28-29D
Project Number: UWRWE-A3226-ABN
Project Manager: Jacob Whritenour

Reported:
09/18/24 15:41

SS09-FL01-01@3'
2409216-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/16/24 11:47**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHI0518	09/16/24	09/16/24	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: **09/16/24 11:47**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0456	114 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0406	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0399	99.7 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/16/24 11:47**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHI0519	09/16/24	09/16/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/16/24 11:47**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	8.11	64.8 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Noble - Hanscome C28-29D

Project Number: UWRWE-A3226-ABN
Project Manager: Jacob Whritenour

Reported:
09/18/24 15:41

SS09-FL01-01@3'
2409216-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/16/24 11:47**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHI0527	09/17/24	09/17/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	"
Benzo (a) anthracene	0.00512	0.00500	"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	"
Benzo (b) fluoranthene	0.00560	0.00500	"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	"
Chrysene	0.00569	0.00500	"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	"
Fluoranthene	0.0115	0.00500	"	"	"	"	"	"	"
Fluorene	ND	0.00500	"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	"
Pyrene	0.0102	0.00500	"	"	"	"	"	"	"
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	"

Date Sampled: **09/16/24 11:47**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0195	58.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0202	60.7 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/16/24 11:47**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHI0537	09/17/24	09/17/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/16/24 11:47**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Hanscome C28-29D

Project Number: UWRWE-A3226-ABN
Project Manager: Jacob Whritenour

Reported:
09/18/24 15:41

SS09-FL01-01@3'
2409216-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	3.20	0.200	mg/kg dry	1	BHI0530	09/17/24	09/17/24	EPA 6020B
Barium	62.2	0.400	"	"	"	"	"	"
Cadmium	0.227	0.200	"	"	"	"	"	"
Copper	4.96	0.400	"	"	"	"	"	"
Lead	8.00	0.200	"	"	"	"	"	"
Nickel	4.60	0.400	"	"	"	"	"	"
Silver	0.0340	0.0200	"	"	"	"	"	"
Zinc	20.5	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/16/24 11:47**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHI0540	09/17/24	09/17/24	EPA 7196A	

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

Date Sampled: **09/16/24 11:47**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	285	0.0500	mg/L dry	1	BHI0516	09/16/24	09/17/24	EPA 6020B	
Magnesium	92.8	0.0500	"	"	"	"	"	"	
Sodium	414	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/16/24 11:47**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.45	0.00100	units	1	BHI0579	09/18/24	09/18/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/16/24 11:47**

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

Project: Noble - Hanscome C28-29D

Project Number: UWRWE-A3226-ABN
Project Manager: Jacob Whritenour

Reported:
09/18/24 15:41

SS09-FL01-01@3'
2409216-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	91.6	%	1	BHI0523	09/17/24	09/17/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/16/24 11:47**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	4.20	0.0100	mmhos/cm	1	BHI0517	09/16/24	09/17/24	EPA 120.1	

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

Date Sampled: **09/16/24 11:47**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.52		pH Units	1	BHI0520	09/16/24	09/17/24	EPA 9045D	

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Project: Noble - Hanscome C28-29D
Project Number: UWRWE-A3226-ABN
Project Manager: Jacob Whritenour

Reported:
09/18/24 15:41

FS02-FL01-01@4'
2409216-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/16/24 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHI0518	09/16/24	09/16/24	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: **09/16/24 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0418	105 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0391	97.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0398	99.4 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/16/24 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHI0519	09/16/24	09/16/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/16/24 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	8.30	66.4 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Noble - Hanscome C28-29D
Project Number: UWRWE-A3226-ABN
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Reported:
09/18/24 15:41

FS02-FL01-01@4'
2409216-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/16/24 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHI0527	09/17/24	09/17/24	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: **09/16/24 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0195	58.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0203	60.8 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/16/24 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHI0537	09/17/24	09/17/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/16/24 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Broomfield CO, 80020

Project: Noble - Hanscome C28-29D

Project Number: UWRWE-A3226-ABN
Project Manager: Jacob Whritenour

Reported:
09/18/24 15:41

FS02-FL01-01@4'
2409216-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	3.35	0.200	mg/kg dry	1	BHI0530	09/17/24	09/17/24	EPA 6020B
Barium	90.7	0.400	"	"	"	"	"	"
Cadmium	0.240	0.200	"	"	"	"	"	"
Copper	4.79	0.400	"	"	"	"	"	"
Lead	8.06	0.200	"	"	"	"	"	"
Nickel	5.78	0.400	"	"	"	"	"	"
Silver	0.0575	0.0200	"	"	"	"	"	"
Zinc	21.2	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/16/24 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHI0540	09/17/24	09/17/24	EPA 7196A	

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

Date Sampled: **09/16/24 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	138	0.0500	mg/L dry	1	BHI0516	09/16/24	09/17/24	EPA 6020B	
Magnesium	49.9	0.0500	"	"	"	"	"	"	
Sodium	370	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/16/24 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.86	0.00100	units	1	BHI0579	09/18/24	09/18/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/16/24 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Hanscome C28-29D

Project Number: UWRWE-A3226-ABN
Project Manager: Jacob Whritenour

Reported:
09/18/24 15:41

FS02-FL01-01@4'
2409216-06 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	88.3	%	1	BHI0523	09/17/24	09/17/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/16/24 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.83	0.0100	mmhos/cm	1	BHI0517	09/16/24	09/17/24	EPA 120.1	

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

Date Sampled: **09/16/24 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.89		pH Units	1	BHI0520	09/16/24	09/17/24	EPA 9045D	

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Project: Noble - Hanscome C28-29D

Project Number: UWRWE-A3226-ABN
Project Manager: Jacob Whritenour

Reported:
09/18/24 15:41

BKG06@3'
2409216-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/16/24 10:52**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHI0537	09/17/24	09/17/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/16/24 10:52**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.45	0.200	mg/kg dry	1	BHI0530	09/17/24	09/17/24	EPA 6020B	
Barium	83.4	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	4.04	0.400	"	"	"	"	"	"	
Lead	6.97	0.200	"	"	"	"	"	"	
Nickel	5.56	0.400	"	"	"	"	"	"	
Silver	0.0464	0.0200	"	"	"	"	"	"	
Zinc	19.4	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/16/24 10:52**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHI0540	09/17/24	09/17/24	EPA 7196A	

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

Date Sampled: **09/16/24 10:52**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	544	0.0500	mg/L dry	1	BHI0516	09/16/24	09/17/24	EPA 6020B	
Magnesium	143	0.0500	"	"	"	"	"	"	
Sodium	201	0.0500	"	"	"	"	"	"	

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Project: Noble - Hanscome C28-29D
Project Number: UWRWE-A3226-ABN
Project Manager: Jacob Whritenour

Reported:
09/18/24 15:41

BKG06@3'
2409216-07 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **09/16/24 10:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.98	0.00100	units	1	BHI0579	09/18/24	09/18/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/16/24 10:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.7		%	1	BHI0523	09/17/24	09/17/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/16/24 10:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.942	0.0100	mmhos/cm	1	BHI0517	09/16/24	09/17/24	EPA 120.1	

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

Date Sampled: **09/16/24 10:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.44		pH Units	1	BHI0520	09/16/24	09/17/24	EPA 9045D	

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Broomfield CO, 80020

Project: Noble - Hanscome C28-29D

Project Number: UWRWE-A3226-ABN
Project Manager: Jacob Whritenour

Reported:
09/18/24 15:41

BKG06@4'
2409216-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/16/24 10:59**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHI0537	09/17/24	09/17/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/16/24 10:59**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	4.93	0.200	mg/kg dry	1	BHI0530	09/17/24	09/17/24	EPA 6020B	
Barium	171	0.400	"	"	"	"	"	"	
Cadmium	0.279	0.200	"	"	"	"	"	"	
Copper	5.77	0.400	"	"	"	"	"	"	
Lead	6.35	0.200	"	"	"	"	"	"	
Nickel	7.40	0.400	"	"	"	"	"	"	
Silver	0.0628	0.0200	"	"	"	"	"	"	
Zinc	18.0	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/16/24 10:59**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHI0540	09/17/24	09/17/24	EPA 7196A	

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

Date Sampled: **09/16/24 10:59**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	126	0.0500	mg/L dry	1	BHI0516	09/16/24	09/17/24	EPA 6020B	
Magnesium	26.0	0.0500	"	"	"	"	"	"	
Sodium	282	0.0500	"	"	"	"	"	"	

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Project: Noble - Hanscome C28-29D
Project Number: UWRWE-A3226-ABN
Project Manager: Jacob Whritenour

Reported:
09/18/24 15:41

BKG06@4'
2409216-08 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **09/16/24 10:59**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.98	0.00100	units	1	BHI0579	09/18/24	09/18/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/16/24 10:59**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	77.2		%	1	BHI0523	09/17/24	09/17/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/16/24 10:59**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.52	0.0100	mmhos/cm	1	BHI0517	09/16/24	09/17/24	EPA 120.1	

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

Date Sampled: **09/16/24 10:59**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.42		pH Units	1	BHI0520	09/16/24	09/17/24	EPA 9045D	

Summit Scientific

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Broomfield CO, 80020

Project: Noble - Hanscome C28-29D

Project Number: UWRWE-A3226-ABN
Project Manager: Jacob Whritenour

Reported:
09/18/24 15:41

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 BHI0518 - EPA 5030 Soil MS

Blank (BHI0518-BLK1)

Prepared & Analyzed: 09/16/24

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	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0414</i>		<i>"</i>	<i>0.0400</i>		<i>104</i>		<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0406</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>		<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0390</i>		<i>"</i>	<i>0.0400</i>		<i>97.6</i>		<i>50-150</i>			

LCS (BHI0518-BS1)

Prepared & Analyzed: 09/16/24

Benzene	0.0952	0.0020	mg/kg	0.100		95.2		70-130			
Toluene	0.0944	0.0050	"	0.100		94.4		70-130			
Ethylbenzene	0.0951	0.0050	"	0.100		95.1		70-130			
m,p-Xylene	0.185	0.010	"	0.200		92.4		70-130			
o-Xylene	0.0918	0.0050	"	0.100		91.8		70-130			
1,2,4-Trimethylbenzene	0.0910	0.0050	"	0.100		91.0		70-130			
1,3,5-Trimethylbenzene	0.0915	0.0050	"	0.100		91.5		70-130			
Naphthalene	0.0856	0.0038	"	0.100		85.6		70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0425</i>		<i>"</i>	<i>0.0400</i>		<i>106</i>		<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0401</i>		<i>"</i>	<i>0.0400</i>		<i>100</i>		<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0379</i>		<i>"</i>	<i>0.0400</i>		<i>94.7</i>		<i>50-150</i>			

Matrix Spike (BHI0518-MS1)

Source: 2409216-01

Prepared & Analyzed: 09/16/24

Benzene	0.0914	0.0020	mg/kg	0.100	ND	91.4		70-130			
Toluene	0.0908	0.0050	"	0.100	ND	90.8		70-130			
Ethylbenzene	0.0940	0.0050	"	0.100	ND	94.0		70-130			
m,p-Xylene	0.180	0.010	"	0.200	ND	89.9		70-130			
o-Xylene	0.0881	0.0050	"	0.100	ND	88.1		70-130			
1,2,4-Trimethylbenzene	0.0870	0.0050	"	0.100	ND	87.0		70-130			
1,3,5-Trimethylbenzene	0.0887	0.0050	"	0.100	ND	88.7		70-130			
Naphthalene	0.0796	0.0038	"	0.100	ND	79.6		70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0454</i>		<i>"</i>	<i>0.0400</i>		<i>114</i>		<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0408</i>		<i>"</i>	<i>0.0400</i>		<i>102</i>		<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0392</i>		<i>"</i>	<i>0.0400</i>		<i>98.0</i>		<i>50-150</i>			

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

Project: Noble - Hanscome C28-29D

Project Number: UWRWE-A3226-ABN
Project Manager: Jacob Whritenour

Reported:
09/18/24 15:41

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 BHI0518 - EPA 5030 Soil MS

Matrix Spike Dup (BHI0518-MSD1)	Source: 2409216-01			Prepared & Analyzed: 09/16/24						
Benzene	0.0839	0.0020	mg/kg	0.100	ND	83.9	70-130	8.52	30	
Toluene	0.0819	0.0050	"	0.100	ND	81.9	70-130	10.2	30	
Ethylbenzene	0.0865	0.0050	"	0.100	ND	86.5	70-130	8.31	30	
m,p-Xylene	0.169	0.010	"	0.200	ND	84.3	70-130	6.51	30	
o-Xylene	0.0827	0.0050	"	0.100	ND	82.7	70-130	6.29	30	
1,2,4-Trimethylbenzene	0.0808	0.0050	"	0.100	ND	80.8	70-130	7.44	30	
1,3,5-Trimethylbenzene	0.0821	0.0050	"	0.100	ND	82.1	70-130	7.76	30	
Naphthalene	0.0763	0.0038	"	0.100	ND	76.3	70-130	4.23	30	
Surrogate: 1,2-Dichloroethane-d4	0.0460		"	0.0400		115	50-150			
Surrogate: Toluene-d8	0.0405		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0397		"	0.0400		99.2	50-150			

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Hanscome C28-29D

Project Number: UWRWE-A3226-ABN
Project Manager: Jacob Whritenour

Reported:
09/18/24 15:41

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BHI0519 - EPA 3550A

Blank (BHI0519-BLK1)

Prepared & Analyzed: 09/16/24

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	12.4		"	12.5		99.3	30-150				

LCS (BHI0519-BS1)

Prepared & Analyzed: 09/16/24

C10-C28 (DRO)	510	50	mg/kg	500		102	70-130				
Surrogate: <i>o</i> -Terphenyl	12.5		"	12.5		100	30-150				

Matrix Spike (BHI0519-MS1)

Source: 2409216-01

Prepared & Analyzed: 09/16/24

C10-C28 (DRO)	514	50	mg/kg	500	ND	103	70-130				
Surrogate: <i>o</i> -Terphenyl	10.8		"	12.5		86.5	30-150				

Matrix Spike Dup (BHI0519-MSD1)

Source: 2409216-01

Prepared & Analyzed: 09/16/24

C10-C28 (DRO)	510	50	mg/kg	500	ND	102	70-130	0.653	20		
Surrogate: <i>o</i> -Terphenyl	10.3		"	12.5		82.3	30-150				

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Project: Noble - Hanscome C28-29D
Project Number: UWRWE-A3226-ABN
Project Manager: Jacob Whritenour

Reported:
09/18/24 15:41

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 BHI0527 - EPA 5030 Soil MS

Blank (BHI0527-BLK1)

Prepared & Analyzed: 09/17/24

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>	0.0263		"	0.0333		78.9	40-150			
<i>Surrogate: Fluoranthene-d10</i>	0.0282		"	0.0333		84.5	40-150			

LCS (BHI0527-BS1)

Prepared & Analyzed: 09/17/24

Acenaphthene	0.0242	0.00500	mg/kg	0.0333		72.6	31-137			
Anthracene	0.0240	0.00500	"	0.0333		71.9	30-120			
Benzo (a) anthracene	0.0246	0.00500	"	0.0333		73.9	30-120			
Benzo (a) pyrene	0.0226	0.00500	"	0.0333		67.9	30-120			
Benzo (b) fluoranthene	0.0216	0.00500	"	0.0333		64.8	30-120			
Benzo (k) fluoranthene	0.0223	0.00500	"	0.0333		66.8	30-120			
Chrysene	0.0247	0.00500	"	0.0333		74.2	30-120			
Dibenz (a,h) anthracene	0.0189	0.00500	"	0.0333		56.7	30-120			
Fluoranthene	0.0247	0.00500	"	0.0333		74.2	30-120			
Fluorene	0.0243	0.00500	"	0.0333		72.9	30-120			
Indeno (1,2,3-cd) pyrene	0.0191	0.00500	"	0.0333		57.2	30-120			
Pyrene	0.0226	0.00500	"	0.0333		67.8	35-142			
1-Methylnaphthalene	0.0241	0.00500	"	0.0333		72.3	35-142			
2-Methylnaphthalene	0.0231	0.00500	"	0.0333		69.3	35-142			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	0.0236		"	0.0333		70.9	40-150			
<i>Surrogate: Fluoranthene-d10</i>	0.0246		"	0.0333		73.8	40-150			

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Project: Noble - Hanscome C28-29D

Project Number: UWRWE-A3226-ABN
Project Manager: Jacob Whritenour

Reported:
09/18/24 15:41

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 BHI0527 - EPA 5030 Soil MS

Matrix Spike (BHI0527-MS1)	Source: 2409209-01			Prepared & Analyzed: 09/17/24						
Acenaphthene	0.0193	0.00500	mg/kg	0.0333	ND	57.8	31-137			
Anthracene	0.0184	0.00500	"	0.0333	ND	55.3	30-120			
Benzo (a) anthracene	0.0186	0.00500	"	0.0333	ND	55.7	30-120			
Benzo (a) pyrene	0.0162	0.00500	"	0.0333	ND	48.5	30-120			
Benzo (b) fluoranthene	0.0155	0.00500	"	0.0333	ND	46.5	30-120			
Benzo (k) fluoranthene	0.0161	0.00500	"	0.0333	ND	48.2	30-120			
Chrysene	0.0185	0.00500	"	0.0333	ND	55.5	30-120			
Dibenz (a,h) anthracene	0.0166	0.00500	"	0.0333	ND	49.7	30-120			
Fluoranthene	0.0185	0.00500	"	0.0333	ND	55.4	30-120			
Fluorene	0.0200	0.00500	"	0.0333	ND	60.1	30-120			
Indeno (1,2,3-cd) pyrene	0.0177	0.00500	"	0.0333	ND	53.1	30-120			
Pyrene	0.0208	0.00500	"	0.0333	ND	62.4	35-142			
1-Methylnaphthalene	0.0184	0.00500	"	0.0333	ND	55.3	15-130			
2-Methylnaphthalene	0.0179	0.00500	"	0.0333	ND	53.7	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>0.0183</i>		<i>"</i>	<i>0.0333</i>		<i>55.0</i>	<i>40-150</i>			

Matrix Spike Dup (BHI0527-MSD1)	Source: 2409209-01			Prepared & Analyzed: 09/17/24						
Acenaphthene	0.0188	0.00500	mg/kg	0.0333	ND	56.4	31-137	2.48	30	
Anthracene	0.0180	0.00500	"	0.0333	ND	53.9	30-120	2.55	30	
Benzo (a) anthracene	0.0182	0.00500	"	0.0333	ND	54.5	30-120	2.19	30	
Benzo (a) pyrene	0.0164	0.00500	"	0.0333	ND	49.1	30-120	1.12	30	
Benzo (b) fluoranthene	0.0158	0.00500	"	0.0333	ND	47.3	30-120	1.73	30	
Benzo (k) fluoranthene	0.0159	0.00500	"	0.0333	ND	47.7	30-120	1.18	30	
Chrysene	0.0185	0.00500	"	0.0333	ND	55.4	30-120	0.240	30	
Dibenz (a,h) anthracene	0.0155	0.00500	"	0.0333	ND	46.4	30-120	6.87	30	
Fluoranthene	0.0190	0.00500	"	0.0333	ND	57.1	30-120	2.99	30	
Fluorene	0.0188	0.00500	"	0.0333	ND	56.4	30-120	6.34	30	
Indeno (1,2,3-cd) pyrene	0.0166	0.00500	"	0.0333	ND	49.7	30-120	6.58	30	
Pyrene	0.0193	0.00500	"	0.0333	ND	57.9	35-142	7.50	30	
1-Methylnaphthalene	0.0171	0.00500	"	0.0333	ND	51.2	15-130	7.62	50	
2-Methylnaphthalene	0.0166	0.00500	"	0.0333	ND	49.8	15-130	7.45	50	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0165</i>		<i>"</i>	<i>0.0333</i>		<i>49.6</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0174</i>		<i>"</i>	<i>0.0333</i>		<i>52.1</i>	<i>40-150</i>			

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

Project: Noble - Hanscome C28-29D
Project Number: UWRWE-A3226-ABN
Project Manager: Jacob Whritenour

Reported:
09/18/24 15:41

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 BHI0537 - EPA 3050B

Blank (BHI0537-BLK1)

Prepared & Analyzed: 09/17/24

Boron ND 2.00 mg/L

LCS (BHI0537-BS1)

Prepared: 09/17/24 Analyzed: 09/18/24

Boron 5.55 2.00 mg/L 5.00 111 80-120

Duplicate (BHI0537-DUP1)

Source: 2409216-01

Prepared & Analyzed: 09/17/24

Boron 0.516 2.00 mg/L 0.471 9.13 20

Matrix Spike (BHI0537-MS1)

Source: 2409216-01

Prepared & Analyzed: 09/17/24

Boron 5.47 2.00 mg/L 5.04 0.471 99.1 75-125

Matrix Spike Dup (BHI0537-MSD1)

Source: 2409216-01

Prepared & Analyzed: 09/17/24

Boron 5.63 2.00 mg/L 5.04 0.471 102 75-125 3.00 25

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

Project: Noble - Hanscome C28-29D

Project Number: UWRWE-A3226-ABN
Project Manager: Jacob Whritenour

Reported:
09/18/24 15:41

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHI0530 - EPA 3050B

Blank (BHI0530-BLK1)

Prepared & Analyzed: 09/17/24

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 (BHI0530-BS1)

Prepared & Analyzed: 09/17/24

Arsenic	36.7	0.200	mg/kg wet	38.8	94.7	80-120
Barium	38.0	0.400	"	38.8	98.0	80-120
Cadmium	1.96	0.200	"	1.94	101	80-120
Copper	42.0	0.400	"	38.8	108	80-120
Lead	19.3	0.200	"	19.4	99.7	80-120
Nickel	41.5	0.400	"	38.8	107	80-120
Silver	1.95	0.0200	"	1.94	101	80-120
Zinc	41.9	0.400	"	38.8	108	80-120
Selenium	3.83	0.260	"	3.88	98.8	80-120

Duplicate (BHI0530-DUP1)

Source: 2409216-01

Prepared & Analyzed: 09/17/24

Arsenic	3.70	0.200	mg/kg dry	3.55	4.22	20
Barium	70.6	0.400	"	76.4	7.91	20
Cadmium	0.218	0.200	"	0.214	1.92	20
Copper	4.51	0.400	"	4.56	1.09	20
Lead	7.39	0.200	"	7.20	2.71	20
Nickel	5.07	0.400	"	5.18	2.14	20
Silver	0.0514	0.0200	"	0.0651	23.5	20
Zinc	20.3	0.400	"	20.8	2.16	20
Selenium	ND	0.260	"	ND		20

QR-01

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

Project: Noble - Hanscome C28-29D

Project Number: UWRWE-A3226-ABN
Project Manager: Jacob Whritenour

Reported:
09/18/24 15:41

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 BHI0530 - EPA 3050B

Matrix Spike (BHI0530-MS1)	Source: 2409216-01			Prepared & Analyzed: 09/17/24								
Arsenic	42.8	0.200	mg/kg dry	43.0	3.55	91.3	75-125					
Barium	114	0.400	"	43.0	76.4	88.6	75-125					
Cadmium	2.34	0.200	"	2.15	0.214	99.0	75-125					
Copper	28.9	0.400	"	43.0	4.56	56.5	75-125					QM-05
Lead	27.4	0.200	"	21.5	7.20	94.1	75-125					
Nickel	29.8	0.400	"	43.0	5.18	57.2	75-125					QM-05
Silver	2.11	0.0200	"	2.15	0.0651	95.4	75-125					
Zinc	45.8	0.400	"	43.0	20.8	58.3	75-125					QM-05
Selenium	3.98	0.260	"	4.30	ND	92.6	75-125					

Matrix Spike Dup (BHI0530-MSD1)	Source: 2409216-01			Prepared & Analyzed: 09/17/24								
Arsenic	43.4	0.200	mg/kg dry	42.7	3.55	93.4	75-125	1.40	25			
Barium	106	0.400	"	42.7	76.4	70.1	75-125	7.41	25			QM-05
Cadmium	2.38	0.200	"	2.13	0.214	101	75-125	1.51	25			
Copper	28.9	0.400	"	42.7	4.56	57.0	75-125	0.0496	25			QM-05
Lead	27.8	0.200	"	21.3	7.20	96.8	75-125	1.56	25			
Nickel	29.8	0.400	"	42.7	5.18	57.8	75-125	0.294	25			QM-05
Silver	2.16	0.0200	"	2.13	0.0651	98.0	75-125	1.91	25			
Zinc	45.8	0.400	"	42.7	20.8	58.6	75-125	0.143	25			QM-05
Selenium	4.03	0.260	"	4.27	ND	94.6	75-125	1.33	25			

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Hanscome C28-29D

Project Number: UWRWE-A3226-ABN
Project Manager: Jacob Whritenour

Reported:
09/18/24 15:41

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BHI0540 - 3060A Mod

Blank (BHI0540-BLK1)

Prepared & Analyzed: 09/17/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHI0540-BS1)

Prepared & Analyzed: 09/17/24

Chromium, Hexavalent 26.0 0.30 mg/kg wet 25.0 104 80-120

Duplicate (BHI0540-DUP1)

Source: 2409181-01

Prepared & Analyzed: 09/17/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHI0540-MS1)

Source: 2409181-01

Prepared & Analyzed: 09/17/24

Chromium, Hexavalent 27.0 0.30 mg/kg dry 26.3 ND 103 75-125

Matrix Spike Dup (BHI0540-MSD1)

Source: 2409181-01

Prepared & Analyzed: 09/17/24

Chromium, Hexavalent 27.7 0.30 mg/kg dry 26.3 ND 105 75-125 2.50 20

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Broomfield CO, 80020

Project: Noble - Hanscome C28-29D

Project Number: UWRWE-A3226-ABN
Project Manager: Jacob Whritenour

Reported:
09/18/24 15:41

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

Summit Scientific

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

Batch BHI0516 - General Preparation

Blank (BHI0516-BLK1)

Prepared: 09/16/24 Analyzed: 09/17/24

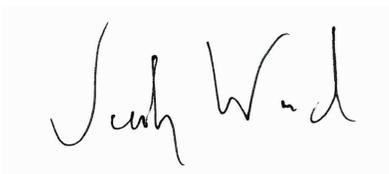
Calcium	ND	0.0500	mg/L wet							
Magnesium	ND	0.0500	"							
Sodium	ND	0.0500	"							

LCS (BHI0516-BS1)

Prepared: 09/16/24 Analyzed: 09/17/24

Calcium	5.41	0.0500	mg/L wet	5.00	108	70-130				
Magnesium	5.43	0.0500	"	5.00	109	70-130				
Sodium	5.36	0.0500	"	5.00	107	70-130				

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

Project: Noble - Hanscome C28-29D

Project Number: UWRWE-A3226-ABN
 Project Manager: Jacob Whritenour

Reported:
 09/18/24 15:41

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

Summit Scientific

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

Batch BHI0523 - General Preparation

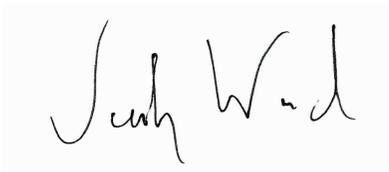
Duplicate (BHI0523-DUP1)

Source: 2409216-01

Prepared & Analyzed: 09/17/24

% Solids	90.0		%		90.9			1.02	20	
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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Hanscome C28-29D

Project Number: UWRWE-A3226-ABN
Project Manager: Jacob Whritenour

Reported:
09/18/24 15:41

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

Summit Scientific

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

Batch BHI0517 - General Preparation

Blank (BHI0517-BLK1)

Prepared: 09/16/24 Analyzed: 09/17/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHI0517-BS1)

Prepared: 09/16/24 Analyzed: 09/17/24

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

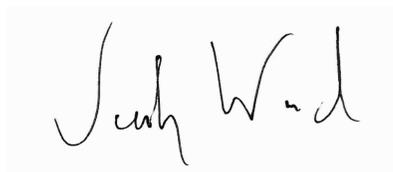
Duplicate (BHI0517-DUP1)

Source: 2409177-01

Prepared: 09/16/24 Analyzed: 09/17/24

Specific Conductance (EC) 1.74 0.0100 mmhos/cm 1.77 1.76 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 - Hanscome C28-29D

Project Number: UWRWE-A3226-ABN
Project Manager: Jacob Whritenour

Reported:
09/18/24 15:41

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 BHI0520 - General Preparation

LCS (BHI0520-BS1)

Prepared: 09/16/24 Analyzed: 09/17/24

pH	9.08	pH Units	9.18	98.9	95-105
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Duplicate (BHI0520-DUP1)

Source: 2409177-01

Prepared: 09/16/24 Analyzed: 09/17/24

pH	8.27	pH Units	8.29	0.242	20
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Summit Scientific



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Notes and Definitions

- QR-01 Analyses are not controlled on RPD values from sample concentrations below the reporting limit. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
- 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