

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

December 23, 2024

Paul Henchan

Fremont Environmental

PO Box 1289

Wellington, CO 80549

RE: Noble - Lucci B01-23 Facility (SI)

Work Order #2411333

Enclosed are the results of analyses for samples received by Summit Scientific on 11/19/24 16:30. 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 fluid and cursive, with the first name being more prominent.

Natalie Tessier For Paul Shrewsbury  
President



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AST01 Cen. 4.0ft	2411333-01	Soil	11/19/24 00:00	11/19/24 16:30
AST01 N 4.0ft	2411333-02	Soil	11/19/24 00:00	11/19/24 16:30
AST01 S 4.0ft	2411333-03	Soil	11/19/24 00:00	11/19/24 16:30
AST01 E 4.0ft	2411333-04	Soil	11/19/24 00:00	11/19/24 16:30
AST01 W 4.0ft	2411333-05	Soil	11/19/24 00:00	11/19/24 16:30
SEP DL Cen. 4.0ft	2411333-06	Soil	11/19/24 00:00	11/19/24 16:30
SEP DL N 4.0ft	2411333-07	Soil	11/19/24 00:00	11/19/24 16:30
SEP DL S 4.0ft	2411333-08	Soil	11/19/24 00:00	11/19/24 16:30
SEP DL E 4.0ft	2411333-09	Soil	11/19/24 00:00	11/19/24 16:30
SEP DL W 4.0ft	2411333-10	Soil	11/19/24 00:00	11/19/24 16:30
BKG 1 2ft	2411333-11	Soil	11/19/24 00:00	11/19/24 16:30
BKG 2 2ft	2411333-12	Soil	11/19/24 00:00	11/19/24 16:30
BKG 3 2ft	2411333-13	Soil	11/19/24 00:00	11/19/24 16:30
BKG 4 2ft	2411333-14	Soil	11/19/24 00:00	11/19/24 16:30
BKG 5 2ft	2411333-15	Soil	11/19/24 00:00	11/19/24 16:30
BKG 1 4ft	2411333-16	Soil	11/19/24 00:00	11/19/24 16:30
BKG 2 4ft	2411333-17	Soil	11/19/24 00:00	11/19/24 16:30
BKG 3 4ft	2411333-18	Soil	11/19/24 00:00	11/19/24 16:30
BKG 4 4ft	2411333-19	Soil	11/19/24 00:00	11/19/24 16:30
BKG 5 4ft	2411333-20	Soil	11/19/24 00:00	11/19/24 16:30
BKG 1 8.0ft	2411333-21	Soil	11/19/24 00:00	11/19/24 16:30
BKG 2 8.0ft	2411333-22	Soil	11/19/24 00:00	11/19/24 16:30
BKG 3 8.0ft	2411333-23	Soil	11/19/24 00:00	11/19/24 16:30
BKG 4 8.0ft	2411333-24	Soil	11/19/24 00:00	11/19/24 16:30
BKG 5 8.0ft	2411333-25	Soil	11/19/24 00:00	11/19/24 16:30
SEP DL Cen. 8.0ft	2411333-26	Soil	11/19/24 00:00	11/19/24 16:30
SEP DL N 8.0ft	2411333-27	Soil	11/19/24 00:00	11/19/24 16:30

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.*



Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Lucci B01-23 Facility (SI) Project Number: UWRWE-A2077-ABN CO23-269 Project Manager: Paul Henchan	<b>Reported:</b> 12/23/24 08:20
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SEP DL S 8.0ft	2411333-28	Soil	11/19/24 00:00	11/19/24 16:30
SEP DL E 8.0ft	2411333-29	Soil	11/19/24 00:00	11/19/24 16:30
SEP DL W 8.0ft	2411333-30	Soil	11/19/24 00:00	11/19/24 16:30

*Statistical Review*

2411333.1

Client: Fremont Environmental		Project Manager:		Company: Chevron	
Address: 8305 6th St.		E-Mail: Chevron Dist. List, paulH, ethanB, joshB(@fremontenv.com)		Project Name/Location:	
City/State/Zip: Wellington, CO				AFE#:	
Phone: 813-514-7730		Project Name: Noble - Lucci B01-23 Facility (SI)		PO/Billing Codes: UWRWE-A2077-ABN	
Sampler Name: Josh Belanger		Project Number: C023-269		Contact: Dan Peterson	

					Preservative				Matrix				Analysis Requested								Special Instructions
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	Full Table 915-1 (Soil)	Full Table 915-1 (GW)	NBTEX, TMBs	TPH (C6-C36)	PAHs	SAR, EC,pH, Boron	Table 915-1 Metals	TDS, Chloride, Sulfate	
1	AST01 Cen. 4.0ft	11/19		2			X			X			X								
2	AST01 N 4.0ft			2			X			X			X								
3	AST01 S 4.0ft			2			X			X			X								
4	AST01 E 4.0ft			2			X			X			X								
5	AST01 W 4.0ft			2			X			X			X								
6	SEP DL Cen. 4.0ft			2			X			X			X								
7	SEP DL N 4.0ft			2			X			X			X								
8	SEP DL S 4.0ft			2			X			X			X								
9	SEP DL E 4.0ft			2			X			X			X								
10	SEP DL W 4.0ft			2			X			X			X								
11	BKG 1 2 Ft			2			X			X								X	X		
12	BKG 2 2 Ft			2			X			X								X	X		
13	BKG 3 2 Ft			2			X			X								X	X		
14	BKG 4 2 Ft			2			X			X								X	X		
15	BKG 5 2 Ft			2			X			X								X	X		

Relinquished by:	Date/Time:	Received by:	Date/Time:	TAT Business Days	Field DO	Notes: Dist. Report to parties circled in the email line(s) only.
	11/19 1245	Summit North	11/19 1245	Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
52	11/19/24 1030		11/19/24 1030	2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	X Field Turb.	
Temperature Upon Receipt: 65		Corrected Temperature: 6		IR gun #:	1	HNO3 lot #:



2411332

		Send Data To:										Send Invoice To:										
Client: Fremont Environmental		Project Manager:										Company: Chevron										
Address: 8305 6th St.		E-Mail: Chevron Dist. List, paulH, ethanB, joshB(@fremontenv.com)										Project Name/Location:										
City/State/Zip: Wellington, CO												AFE#:										
Phone: 813-514-7730		Project Name: Noble - Lucci B01-23 Facility (SI)										PO/Billing Codes: UWRWE-A2077-ABN										
Sampler Name: Josh Belanger		Project Number: C023-269										Contact: Dan Peterson										
ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative	Matrix				Analysis Requested										Special Instructions		
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	Full Table 915-1 (Soil)	Full Table 915-1 (GW)	NBTEX, TMBs	TPH (C6-C36)	PAHs	SAR, EC, pH, Boron	Table 915-1 Metals	TDS, Chloride, Sulfate		
16	BKG 1 4 Ft	11/19		2			X			X								X	X			
17	BKG 2 4 Ft			2			X			X								X	X			
18	BKG 3 4 Ft			2			X			X								X	X			
19	BKG 4 4 Ft			2			X			X								X	X			
20	BKG 5 4 Ft			2			X			X								X	X			
21	BKG 1 8.0 ft			2			X			X								X	X			
22	BKG 2 8.0 ft			2			X			X								X	X			
23	BKG 3 8.0 ft			2			X			X								X	X			
24	BKG 4 8.0 ft			2			X			X								X	X			
25	BKG 5 8.0 ft			2			X			X								X	X			
26	Sep DL cen 8.0 ft			2			X			X			X									
27	Sep DL N 8.0 ft			2			X			X			X									
28	Sep DL S 8.0 ft			2			X			X			X									
29	Sep DL E 8.0 ft			2			X			X			X									
30	Sep DL W 8.0 ft			2			X			X			X									
Relinquished by:		Date/Time:	Received by:		Date/Time:		TAT Business Days		Field DO		<b>Notes:</b> Dist. Report to parties circled in the email line(s) only.											
✓		11/19 1245	Summit North		11/19 1245		Same Day		Field EC													
✓		11/19 1030	✓		11/19 1030		1 Day		Field ORP													
							2 Days		Field pH													
							3 Days		Field Temp.													
Relinquished by:		Date/Time:	Received by:		Date/Time:		Standard		X		Field Turb.											
Temperature Upon Receipt: 10.3		Corrected Temperature: C		IR gun #: 1		HNO3 lot #:																

S<sub>2</sub>

2/2

## Sample Receipt Checklist

S2 Work Order# 2411333Client: FremontClient Project ID: NOV-Lucci B01-25 facility (S7)

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

Airbill #:

	-			
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Matrix (Check all that apply)

Air

☐

Soil/Solid

☒

Water

☐

Other

☐

Temp (°C)

6.3

Thermometer #

1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> 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"/>	azie
If custody seals are present, are they intact? <sup>(1)</sup>	<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 <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , 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? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<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)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> 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):				

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.
AS  
Custodian Printed Name

11/19/24  
Date/Time



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**AST01 Cen. 4.0ft**  
**2411333-01 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BHK1231	11/23/24	11/26/24	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: **11/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0406	101 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0389	97.4 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0398	99.4 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BHK1234	11/23/24	11/28/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	11.0	88.1 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**AST01 Cen. 4.0ft**  
**2411333-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK1241	11/25/24	11/26/24	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: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0227	68.2 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0230	69.0 %	40-140		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHL0176	12/04/24	12/07/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**AST01 Cen. 4.0ft**  
**2411333-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	0.761	0.200	mg/kg dry	1	BHL0464	12/11/24	12/17/24	EPA 6020B
Barium	148	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	0.821	0.400	"	"	"	"	"	"
Lead	6.12	0.200	"	"	"	"	"	"
Nickel	0.704	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	3.10	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 11/19/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0450	12/11/24	12/11/24	EPA 7196A	

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

Date Sampled: 11/19/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	170	0.0500	mg/L dry	1	BHL0772	12/17/24	12/19/24	EPA 6020B	
Magnesium	3.10	0.0500	"	"	"	"	"	"	
Sodium	0.250	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: 11/19/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.00520	0.00100	units	1	BHL1073	12/21/24	12/21/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**AST01 Cen. 4.0ft**  
**2411333-01 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	98.4		%	1	BHL0130	12/03/24	12/04/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.116	0.0100	mmhos/cm	1	BHL0773	12/17/24	12/23/24	EPA 120.1	

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

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.73		pH Units	1	BHL0774	12/17/24	12/23/24	EPA 9045D	I-02

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Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**AST01 N 4.0ft**  
**2411333-02 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHK1231	11/23/24	11/26/24	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: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0396	99.1 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0408	102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0392	98.0 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHK1234	11/23/24	11/28/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	10.2	81.5 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**AST01 N 4.0ft**  
**2411333-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK1241	11/25/24	11/26/24	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: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0211	63.3 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0211	63.2 %	40-140		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHL0176	12/04/24	12/07/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**AST01 N 4.0ft**  
**2411333-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	0.700	0.200	mg/kg dry	1	BHL0464	12/11/24	12/17/24	EPA 6020B
Barium	46.7	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	0.848	0.400	"	"	"	"	"	"
Lead	4.08	0.200	"	"	"	"	"	"
Nickel	0.813	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	3.51	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 11/19/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0450	12/11/24	12/11/24	EPA 7196A	

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

Date Sampled: 11/19/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	61.0	0.0500	mg/L dry	1	BHL0772	12/17/24	12/20/24	EPA 6020B	
Magnesium	2.01	0.0500	"	"	"	"	"	"	
Sodium	0.389	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: 11/19/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0134	0.00100	units	1	BHL1073	12/21/24	12/21/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**AST01 N 4.0ft**  
**2411333-02 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.0		%	1	BHL0130	12/03/24	12/04/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.123	0.0100	mmhos/cm	1	BHL0773	12/17/24	12/23/24	EPA 120.1	

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

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.56		pH Units	1	BHL0774	12/17/24	12/23/24	EPA 9045D	I-02

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**AST01 S 4.0ft**  
**2411333-03 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHK1231	11/23/24	11/26/24	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: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0399	99.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0416	104 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0405	101 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHK1234	11/23/24	11/28/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	10.6	85.1 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Wellington CO, 80549

Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**AST01 S 4.0ft**  
**2411333-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK1241	11/25/24	11/26/24	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: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0224	67.3 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0233	69.8 %	40-140		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHL0176	12/04/24	12/07/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**AST01 S 4.0ft**  
**2411333-03 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	0.697	0.200	mg/kg dry	1	BHL0464	12/11/24	12/17/24	EPA 6020B
Barium	69.1	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	0.691	0.400	"	"	"	"	"	"
Lead	2.86	0.200	"	"	"	"	"	"
Nickel	0.776	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	3.04	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 11/19/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0450	12/11/24	12/11/24	EPA 7196A	

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

Date Sampled: 11/19/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	310	0.0500	mg/L dry	1	BHL0772	12/17/24	12/19/24	EPA 6020B	
Magnesium	2.74	0.0500	"	"	"	"	"	"	
Sodium	0.302	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: 11/19/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.00469	0.00100	units	1	BHL1073	12/21/24	12/21/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**AST01 S 4.0ft**  
**2411333-03 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.5		%	1	BHL0130	12/03/24	12/04/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.125	0.0100	mmhos/cm	1	BHL0773	12/17/24	12/23/24	EPA 120.1	

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

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.67		pH Units	1	BHL0774	12/17/24	12/23/24	EPA 9045D	I-02

Summit Scientific

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**AST01 E 4.0ft**  
**2411333-04 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHK1231	11/23/24	11/26/24	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: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0384	95.9 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0383	95.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0412	103 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHK1234	11/23/24	11/28/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	10.8	86.8 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Wellington CO, 80549

Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**AST01 E 4.0ft**  
**2411333-04 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK1241	11/25/24	11/26/24	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: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0225	67.6 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0228	68.4 %	40-140		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHL0176	12/04/24	12/07/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**AST01 E 4.0ft**  
**2411333-04 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	2.59	0.200	mg/kg dry	1	BHL0546	12/12/24	12/18/24	EPA 6020B
Barium	180	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	3.94	0.400	"	"	"	"	"	"
Lead	5.92	0.200	"	"	"	"	"	"
Nickel	3.67	0.400	"	"	"	"	"	"
Silver	0.0211	0.0200	"	"	"	"	"	"
Zinc	13.2	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 11/19/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0450	12/11/24	12/11/24	EPA 7196A	

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

Date Sampled: 11/19/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	293	0.0500	mg/L dry	1	BHL0772	12/17/24	12/19/24	EPA 6020B	
Magnesium	3.18	0.0500	"	"	"	"	"	"	
Sodium	0.403	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: 11/19/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.00643	0.00100	units	1	BHL1073	12/21/24	12/21/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Summit Scientific

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Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**AST01 E 4.0ft**  
**2411333-04 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.5		%	1	BHL0130	12/03/24	12/04/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.145	0.0100	mmhos/cm	1	BHL0773	12/17/24	12/23/24	EPA 120.1	

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

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.63		pH Units	1	BHL0774	12/17/24	12/23/24	EPA 9045D	I-02

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**AST01 W 4.0ft**  
**2411333-05 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHK1231	11/23/24	11/26/24	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: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0394	98.4 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0397	99.2 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0401	100 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHK1234	11/23/24	11/28/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	10.9	87.4 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Wellington CO, 80549

Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**AST01 W 4.0ft**  
**2411333-05 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK1241	11/25/24	11/26/24	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: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0195	58.5 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0199	59.6 %	40-140		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHL0176	12/04/24	12/07/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**AST01 W 4.0ft**  
**2411333-05 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	2.42	0.200	mg/kg dry	1	BHL0546	12/12/24	12/18/24	EPA 6020B
Barium	119	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	3.19	0.400	"	"	"	"	"	"
Lead	5.12	0.200	"	"	"	"	"	"
Nickel	3.53	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	12.4	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0450	12/11/24	12/11/24	EPA 7196A	

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

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	165	0.0500	mg/L dry	1	BHL0772	12/17/24	12/19/24	EPA 6020B	
Magnesium	3.09	0.0500	"	"	"	"	"	"	
Sodium	1.36	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0287	0.00100	units	1	BHL1073	12/21/24	12/21/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**AST01 W 4.0ft**  
**2411333-05 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.7		%	1	BHL0130	12/03/24	12/04/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.151	0.0100	mmhos/cm	1	BHL0773	12/17/24	12/23/24	EPA 120.1	

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

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.80		pH Units	1	BHL0774	12/17/24	12/23/24	EPA 9045D	I-02

Summit Scientific

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Wellington CO, 80549

Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**SEP DL Cen. 4.0ft**  
**2411333-06 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHK1231	11/23/24	11/26/24	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: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0402	101 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0392	98.1 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0406	101 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHK1234	11/23/24	11/28/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	11.7	93.9 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**SEP DL Cen. 4.0ft**  
**2411333-06 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK1241	11/25/24	11/26/24	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: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0168	50.3 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0165	49.4 %	40-140		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHL0176	12/04/24	12/07/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Wellington CO, 80549

Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**SEP DL Cen. 4.0ft**  
**2411333-06 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.44	0.200	mg/kg dry	1	BHL0546	12/12/24	12/18/24	EPA 6020B
Barium	28.3	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.50	0.400	"	"	"	"	"	"
Lead	3.65	0.200	"	"	"	"	"	"
Nickel	1.88	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	9.91	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0450	12/11/24	12/11/24	EPA 7196A	

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

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	147	0.0500	mg/L dry	1	BHL0772	12/17/24	12/19/24	EPA 6020B	
Magnesium	2.45	0.0500	"	"	"	"	"	"	
Sodium	0.283	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.00634	0.00100	units	1	BHL1073	12/21/24	12/21/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**SEP DL Cen. 4.0ft**  
**2411333-06 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.0		%	1	BHL0130	12/03/24	12/04/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.162	0.0100	mmhos/cm	1	BHL0773	12/17/24	12/23/24	EPA 120.1	

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

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.58		pH Units	1	BHL0774	12/17/24	12/23/24	EPA 9045D	I-02

Summit Scientific

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Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**SEP DL N 4.0ft**  
**2411333-07 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHK1231	11/23/24	11/26/24	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: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0407	102 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0399	99.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0408	102 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHK1234	11/23/24	11/28/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	11.0	87.8 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**SEP DL N 4.0ft**  
**2411333-07 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK1241	11/25/24	11/26/24	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: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0196	58.8 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0196	58.8 %	40-140		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHL0176	12/04/24	12/07/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**SEP DL N 4.0ft**  
**2411333-07 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.40	0.200	mg/kg dry	1	BHL0546	12/12/24	12/18/24	EPA 6020B
Barium	29.0	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.12	0.400	"	"	"	"	"	"
Lead	4.29	0.200	"	"	"	"	"	"
Nickel	1.81	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	9.19	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0450	12/11/24	12/11/24	EPA 7196A	

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

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	167	0.0500	mg/L dry	1	BHL0772	12/17/24	12/19/24	EPA 6020B	
Magnesium	2.18	0.0500	"	"	"	"	"	"	
Sodium	0.537	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0113	0.00100	units	1	BHL1073	12/21/24	12/21/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**SEP DL N 4.0ft**  
**2411333-07 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.0		%	1	BHL0130	12/03/24	12/04/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.116	0.0100	mmhos/cm	1	BHL0773	12/17/24	12/23/24	EPA 120.1	

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

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.68		pH Units	1	BHL0774	12/17/24	12/23/24	EPA 9045D	I-02

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Wellington CO, 80549

Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**SEP DL S 4.0ft**  
**2411333-08 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHK1231	11/23/24	11/27/24	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: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0385	96.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0389	97.4 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0410	103 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHK1234	11/23/24	11/28/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	10.2	81.3 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Wellington CO, 80549

Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**SEP DLS 4.0ft**  
**2411333-08 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK1241	11/25/24	11/26/24	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: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0238	71.5 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0230	69.0 %	40-140		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHL0176	12/04/24	12/07/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**SEP DL S 4.0ft**  
**2411333-08 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.86	0.200	mg/kg dry	1	BHL0546	12/12/24	12/18/24	EPA 6020B
Barium	32.5	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.42	0.400	"	"	"	"	"	"
Lead	4.80	0.200	"	"	"	"	"	"
Nickel	2.15	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	10.1	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0450	12/11/24	12/11/24	EPA 7196A	

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

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	318	0.0500	mg/L dry	1	BHL0772	12/17/24	12/19/24	EPA 6020B	
Magnesium	3.26	0.0500	"	"	"	"	"	"	
Sodium	0.163	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.00250	0.00100	units	1	BHL1073	12/21/24	12/21/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Summit Scientific

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Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**SEP DL S 4.0ft**  
**2411333-08 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.1		%	1	BHL0130	12/03/24	12/04/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.134	0.0100	mmhos/cm	1	BHL0773	12/17/24	12/23/24	EPA 120.1	

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

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.59		pH Units	1	BHL0774	12/17/24	12/23/24	EPA 9045D	I-02

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Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**SEP DL E 4.0ft**  
**2411333-09 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHK1231	11/23/24	11/27/24	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: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0386	96.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0398	99.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0405	101 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHK1234	11/23/24	11/28/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	10.1	80.8 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**SEP DL E 4.0ft**  
**2411333-09 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK1241	11/25/24	11/26/24	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: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0184	55.2 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0185	55.4 %	40-140		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHL0176	12/04/24	12/07/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Wellington CO, 80549

Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**SEP DL E 4.0ft**  
**2411333-09 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.59	0.200	mg/kg dry	1	BHL0546	12/12/24	12/18/24	EPA 6020B
Barium	29.3	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	1.90	0.400	"	"	"	"	"	"
Lead	3.36	0.200	"	"	"	"	"	"
Nickel	1.81	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	8.84	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0450	12/11/24	12/11/24	EPA 7196A	

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

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	54.9	0.0500	mg/L dry	1	BHL0772	12/17/24	12/20/24	EPA 6020B	
Magnesium	1.56	0.0500	"	"	"	"	"	"	
Sodium	0.404	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0147	0.00100	units	1	BHL1073	12/21/24	12/21/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**SEP DL E 4.0ft**  
**2411333-09 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.2		%	1	BHL0130	12/03/24	12/04/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.150	0.0100	mmhos/cm	1	BHL0773	12/17/24	12/23/24	EPA 120.1	

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

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.53		pH Units	1	BHL0774	12/17/24	12/23/24	EPA 9045D	I-02

Summit Scientific

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Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**SEP DL W 4.0ft**  
**2411333-10 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHK1231	11/23/24	11/27/24	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: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0403	101 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0396	99.1 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0402	100 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHK1234	11/23/24	11/28/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	8.63	69.1 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**SEP DL W 4.0ft**  
**2411333-10 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK1241	11/25/24	11/26/24	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: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0238	71.5 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0238	71.4 %	40-140		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHL0176	12/04/24	12/07/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**SEP DL W 4.0ft**  
**2411333-10 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.48	0.200	mg/kg dry	1	BHL0546	12/12/24	12/18/24	EPA 6020B
Barium	30.3	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.34	0.400	"	"	"	"	"	"
Lead	3.48	0.200	"	"	"	"	"	"
Nickel	1.94	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	9.55	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0450	12/11/24	12/11/24	EPA 7196A	

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

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	199	0.0500	mg/L dry	1	BHL0772	12/17/24	12/19/24	EPA 6020B	
Magnesium	3.11	0.0500	"	"	"	"	"	"	
Sodium	0.272	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.00524	0.00100	units	1	BHL1073	12/21/24	12/21/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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Wellington CO, 80549

Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**SEP DL W 4.0ft**  
**2411333-10 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.4		%	1	BHL0130	12/03/24	12/04/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.106	0.0100	mmhos/cm	1	BHL0773	12/17/24	12/23/24	EPA 120.1	

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

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.45		pH Units	1	BHL0774	12/17/24	12/23/24	EPA 9045D	I-02

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Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**BKG 1 2ft**  
**2411333-11 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHL0222	12/05/24	12/07/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	2.78	0.200	mg/kg dry	1	BHL0546	12/12/24	12/18/24	EPA 6020B	
Barium	61.4	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.08	0.400	"	"	"	"	"	"	
Lead	13.5	0.200	"	"	"	"	"	"	
Nickel	3.32	0.400	"	"	"	"	"	"	
Silver	0.0210	0.0200	"	"	"	"	"	"	
Zinc	12.1	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0450	12/11/24	12/11/24	EPA 7196A	

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

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	73.3	0.0500	mg/L dry	1	BHL0772	12/17/24	12/19/24	EPA 6020B	
Magnesium	2.66	0.0500	"	"	"	"	"	"	
Sodium	0.479	0.0500	"	"	"	"	"	"	

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Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**BKG 1 2ft**  
**2411333-11 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	<b>0.0150</b>	0.00100	units	1	BHL1073	12/21/24	12/21/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	<b>94.6</b>		%	1	BHL0130	12/03/24	12/04/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.123</b>	0.0100	mmhos/cm	1	BHL0773	12/17/24	12/23/24	EPA 120.1	

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

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	<b>7.73</b>		pH Units	1	BHL0774	12/17/24	12/23/24	EPA 9045D	I-02

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Wellington CO, 80549

Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**BKG 2 2ft**  
**2411333-12 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHL0222	12/05/24	12/07/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	2.17	0.200	mg/kg dry	1	BHL0546	12/12/24	12/18/24	EPA 6020B	
Barium	38.4	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.15	0.400	"	"	"	"	"	"	
Lead	3.66	0.200	"	"	"	"	"	"	
Nickel	2.22	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	9.62	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0450	12/11/24	12/11/24	EPA 7196A	

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

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	75.1	0.0500	mg/L dry	1	BHL0772	12/17/24	12/19/24	EPA 6020B	
Magnesium	4.20	0.0500	"	"	"	"	"	"	
Sodium	0.339	0.0500	"	"	"	"	"	"	

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Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**BKG 2 2ft**  
**2411333-12 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0103	0.00100	units	1	BHL1073	12/21/24	12/21/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.5		%	1	BHL0130	12/03/24	12/04/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.170	0.0100	mmhos/cm	1	BHL0773	12/17/24	12/23/24	EPA 120.1	

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

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.83		pH Units	1	BHL0774	12/17/24	12/23/24	EPA 9045D	I-02

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Wellington CO, 80549

Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**BKG 3 2ft**  
**2411333-13 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHL0222	12/05/24	12/07/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	2.84	0.200	mg/kg dry	1	BHL0546	12/12/24	12/18/24	EPA 6020B	
Barium	48.5	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.07	0.400	"	"	"	"	"	"	
Lead	4.76	0.200	"	"	"	"	"	"	
Nickel	2.93	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	12.4	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0450	12/11/24	12/11/24	EPA 7196A	

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

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	59.8	0.0500	mg/L dry	1	BHL0772	12/17/24	12/20/24	EPA 6020B	
Magnesium	4.39	0.0500	"	"	"	"	"	"	
Sodium	0.128	0.0500	"	"	"	"	"	"	

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Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**BKG 3 2ft**  
**2411333-13 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.00430	0.00100	units	1	BHL1073	12/21/24	12/21/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.2		%	1	BHL0130	12/03/24	12/04/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0544	0.0100	mmhos/cm	1	BHL0773	12/17/24	12/23/24	EPA 120.1	

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

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.02		pH Units	1	BHL0774	12/17/24	12/23/24	EPA 9045D	I-02

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Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**BKG 4 2ft**  
**2411333-14 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHL0222	12/05/24	12/07/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	2.62	0.200	mg/kg dry	1	BHL0546	12/12/24	12/18/24	EPA 6020B	
Barium	43.6	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.80	0.400	"	"	"	"	"	"	
Lead	4.37	0.200	"	"	"	"	"	"	
Nickel	2.83	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	11.9	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0450	12/11/24	12/11/24	EPA 7196A	

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

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	42.1	0.0500	mg/L dry	1	BHL0772	12/17/24	12/19/24	EPA 6020B	
Magnesium	4.01	0.0500	"	"	"	"	"	"	
Sodium	0.579	0.0500	"	"	"	"	"	"	

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Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**BKG 4 2ft**  
**2411333-14 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0228	0.00100	units	1	BHL1073	12/21/24	12/21/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.6		%	1	BHL0130	12/03/24	12/04/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0980	0.0100	mmhos/cm	1	BHL0773	12/17/24	12/23/24	EPA 120.1	

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

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.59		pH Units	1	BHL0774	12/17/24	12/23/24	EPA 9045D	I-02

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Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**BKG 5 2ft**  
**2411333-15 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHL0222	12/05/24	12/07/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	1.67	0.200	mg/kg dry	1	BHL0546	12/12/24	12/18/24	EPA 6020B	
Barium	33.7	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.38	0.400	"	"	"	"	"	"	
Lead	4.38	0.200	"	"	"	"	"	"	
Nickel	2.25	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	9.91	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0450	12/11/24	12/11/24	EPA 7196A	

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

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	57.9	0.0500	mg/L dry	1	BHL0772	12/17/24	12/19/24	EPA 6020B	
Magnesium	2.74	0.0500	"	"	"	"	"	"	
Sodium	0.125	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**BKG 5 2ft**  
**2411333-15 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.00436	0.00100	units	1	BHL1073	12/21/24	12/21/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.5		%	1	BHL0130	12/03/24	12/04/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.201	0.0100	mmhos/cm	1	BHL0773	12/17/24	12/23/24	EPA 120.1	

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

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.69		pH Units	1	BHL0774	12/17/24	12/23/24	EPA 9045D	I-02

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**BKG 1 4ft**  
**2411333-16 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHL0222	12/05/24	12/07/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	1.85	0.200	mg/kg dry	1	BHL0546	12/12/24	12/18/24	EPA 6020B	
Barium	56.3	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.25	0.400	"	"	"	"	"	"	
Lead	3.65	0.200	"	"	"	"	"	"	
Nickel	2.62	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	9.71	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0450	12/11/24	12/11/24	EPA 7196A	

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

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	606	0.0500	mg/L dry	1	BHL0772	12/17/24	12/19/24	EPA 6020B	
Magnesium	2.02	0.0500	"	"	"	"	"	"	
Sodium	0.681	0.0500	"	"	"	"	"	"	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**BKG 1 4ft**  
**2411333-16 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.00760	0.00100	units	1	BHL1073	12/21/24	12/21/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.2		%	1	BHL0130	12/03/24	12/04/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.153	0.0100	mmhos/cm	1	BHL0773	12/17/24	12/23/24	EPA 120.1	

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

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.42		pH Units	1	BHL0774	12/17/24	12/23/24	EPA 9045D	I-02

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**BKG 2 4ft**  
**2411333-17 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHL0222	12/05/24	12/07/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	1.83	0.200	mg/kg dry	1	BHL0546	12/12/24	12/18/24	EPA 6020B	
Barium	37.9	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.54	0.400	"	"	"	"	"	"	
Lead	2.81	0.200	"	"	"	"	"	"	
Nickel	1.78	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	7.39	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0450	12/11/24	12/11/24	EPA 7196A	

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

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	22.1	0.0500	mg/L dry	1	BHL0772	12/17/24	12/20/24	EPA 6020B	
Magnesium	2.06	0.0500	"	"	"	"	"	"	
Sodium	2.37	0.0500	"	"	"	"	"	"	

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Wellington CO, 80549

Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**BKG 2 4ft**  
**2411333-17 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.129	0.00100	units	1	BHL1073	12/21/24	12/21/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	98.7		%	1	BHL0130	12/03/24	12/04/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0743	0.0100	mmhos/cm	1	BHL0773	12/17/24	12/23/24	EPA 120.1	

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

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.30		pH Units	1	BHL0774	12/17/24	12/23/24	EPA 9045D	I-02

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Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**BKG 3 4ft**  
**2411333-18 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHL0222	12/05/24	12/07/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	2.42	0.200	mg/kg dry	1	BHL0546	12/12/24	12/18/24	EPA 6020B	
Barium	41.9	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.47	0.400	"	"	"	"	"	"	
Lead	4.35	0.200	"	"	"	"	"	"	
Nickel	2.54	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	11.1	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0450	12/11/24	12/11/24	EPA 7196A	

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

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	187	0.0500	mg/L dry	1	BHL0772	12/17/24	12/20/24	EPA 6020B	
Magnesium	4.73	0.0500	"	"	"	"	"	"	
Sodium	0.132	0.0500	"	"	"	"	"	"	

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**BKG 3 4ft**  
**2411333-18 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.00260	0.00100	units	1	BHL1073	12/21/24	12/21/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.4		%	1	BHL0130	12/03/24	12/04/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.170	0.0100	mmhos/cm	1	BHL0773	12/17/24	12/23/24	EPA 120.1	

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

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.49		pH Units	1	BHL0774	12/17/24	12/23/24	EPA 9045D	I-02

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**BKG 4 4ft**  
**2411333-19 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHL0222	12/05/24	12/07/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	2.15	0.200	mg/kg dry	1	BHL0546	12/12/24	12/18/24	EPA 6020B	
Barium	64.9	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.05	0.400	"	"	"	"	"	"	
Lead	4.30	0.200	"	"	"	"	"	"	
Nickel	2.62	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	10.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0450	12/11/24	12/11/24	EPA 7196A	

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

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	90.2	0.0500	mg/L dry	1	BHL0772	12/17/24	12/20/24	EPA 6020B	
Magnesium	4.96	0.0500	"	"	"	"	"	"	
Sodium	0.264	0.0500	"	"	"	"	"	"	

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Wellington CO, 80549

Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**BKG 4 4ft**  
**2411333-19 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.00733	0.00100	units	1	BHL1073	12/21/24	12/21/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	98.1		%	1	BHL0130	12/03/24	12/04/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.148	0.0100	mmhos/cm	1	BHL0773	12/17/24	12/23/24	EPA 120.1	

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

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.07		pH Units	1	BHL0774	12/17/24	12/23/24	EPA 9045D	I-02

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Wellington CO, 80549

Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**BKG 5 4ft**  
**2411333-20 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHL0222	12/05/24	12/07/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	2.04	0.200	mg/kg dry	1	BHL0546	12/12/24	12/18/24	EPA 6020B	
Barium	39.4	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.18	0.400	"	"	"	"	"	"	
Lead	3.74	0.200	"	"	"	"	"	"	
Nickel	2.42	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	10.1	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0450	12/11/24	12/11/24	EPA 7196A	

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

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	33.1	0.0500	mg/L dry	1	BHL0772	12/17/24	12/19/24	EPA 6020B	
Magnesium	2.20	0.0500	"	"	"	"	"	"	
Sodium	1.06	0.0500	"	"	"	"	"	"	

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Wellington CO, 80549

Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**BKG 5 4ft**  
**2411333-20 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0482	0.00100	units	1	BHL1073	12/21/24	12/21/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.4		%	1	BHL0130	12/03/24	12/04/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.135	0.0100	mmhos/cm	1	BHL0773	12/17/24	12/23/24	EPA 120.1	

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

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.28		pH Units	1	BHL0774	12/17/24	12/23/24	EPA 9045D	I-02

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Wellington CO, 80549

Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**BKG 1 8.0ft**  
**2411333-21 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHL0360	12/09/24	12/11/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	2.44	0.200	mg/kg dry	1	BHL0546	12/12/24	12/18/24	EPA 6020B	
Barium	42.1	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.83	0.400	"	"	"	"	"	"	
Lead	3.53	0.200	"	"	"	"	"	"	
Nickel	3.69	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	8.98	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0451	12/11/24	12/11/24	EPA 7196A	

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

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	63.7	0.0500	mg/L dry	1	BHL0772	12/17/24	12/19/24	EPA 6020B	
Magnesium	4.23	0.0500	"	"	"	"	"	"	
Sodium	2.33	0.0500	"	"	"	"	"	"	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**BKG 1 8.0ft**  
**2411333-21 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0763	0.00100	units	1	BHL1073	12/21/24	12/21/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	98.6		%	1	BHL0130	12/03/24	12/04/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.146	0.0100	mmhos/cm	1	BHL0773	12/17/24	12/23/24	EPA 120.1	

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

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.91		pH Units	1	BHL0774	12/17/24	12/23/24	EPA 9045D	I-02

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Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**BKG 2 8.0ft**  
**2411333-22 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHL0360	12/09/24	12/11/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	1.92	0.200	mg/kg dry	1	BHL0546	12/12/24	12/18/24	EPA 6020B	
Barium	42.3	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.57	0.400	"	"	"	"	"	"	
Lead	2.53	0.200	"	"	"	"	"	"	
Nickel	1.76	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	7.90	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0451	12/11/24	12/11/24	EPA 7196A	

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

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	137	0.0500	mg/L dry	1	BHL0772	12/17/24	12/19/24	EPA 6020B	
Magnesium	3.56	0.0500	"	"	"	"	"	"	
Sodium	2.74	0.0500	"	"	"	"	"	"	

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Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**BKG 2 8.0ft**  
**2411333-22 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0631	0.00100	units	1	BHL1073	12/21/24	12/21/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.4		%	1	BHL0130	12/03/24	12/04/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.182	0.0100	mmhos/cm	1	BHL0773	12/17/24	12/23/24	EPA 120.1	

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

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.45		pH Units	1	BHL0774	12/17/24	12/23/24	EPA 9045D	I-02

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Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**BKG 3 8.0ft**  
**2411333-23 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHL0360	12/09/24	12/11/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	1.72	0.200	mg/kg dry	1	BHL0557	12/12/24	12/17/24	EPA 6020B	
Barium	54.5	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.22	0.400	"	"	"	"	"	"	
Lead	2.46	0.200	"	"	"	"	"	"	
Nickel	1.62	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	6.73	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0451	12/11/24	12/11/24	EPA 7196A	

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

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	109	0.0500	mg/L dry	1	BHL0772	12/17/24	12/19/24	EPA 6020B	
Magnesium	2.07	0.0500	"	"	"	"	"	"	
Sodium	0.348	0.0500	"	"	"	"	"	"	

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Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**BKG 3 8.0ft**  
**2411333-23 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.00904	0.00100	units	1	BHL1073	12/21/24	12/21/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.8		%	1	BHL0130	12/03/24	12/04/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.176	0.0100	mmhos/cm	1	BHL0773	12/17/24	12/23/24	EPA 120.1	

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

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.95		pH Units	1	BHL0774	12/17/24	12/23/24	EPA 9045D	I-02

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Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**BKG 4 8.0ft**  
**2411333-24 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHL0360	12/09/24	12/11/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	2.12	0.200	mg/kg dry	1	BHL0557	12/12/24	12/17/24	EPA 6020B	
Barium	119	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.89	0.400	"	"	"	"	"	"	
Lead	3.83	0.200	"	"	"	"	"	"	
Nickel	2.51	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	9.45	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0451	12/11/24	12/11/24	EPA 7196A	

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

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	94.9	0.0500	mg/L dry	1	BHL0772	12/17/24	12/19/24	EPA 6020B	
Magnesium	2.73	0.0500	"	"	"	"	"	"	
Sodium	1.85	0.0500	"	"	"	"	"	"	

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Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**BKG 4 8.0ft**  
**2411333-24 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0511	0.00100	units	1	BHL1073	12/21/24	12/21/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.5		%	1	BHL0130	12/03/24	12/04/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0835	0.0100	mmhos/cm	1	BHL0773	12/17/24	12/23/24	EPA 120.1	

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

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.60		pH Units	1	BHL0774	12/17/24	12/23/24	EPA 9045D	I-02

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Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**BKG 5 8.0ft**  
**2411333-25 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHL0360	12/09/24	12/11/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	1.99	0.200	mg/kg dry	1	BHL0557	12/12/24	12/17/24	EPA 6020B	
Barium	89.6	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.61	0.400	"	"	"	"	"	"	
Lead	3.43	0.200	"	"	"	"	"	"	
Nickel	2.17	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	8.51	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0451	12/11/24	12/11/24	EPA 7196A	

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

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	29.3	0.0500	mg/L dry	1	BHL0772	12/17/24	12/19/24	EPA 6020B	
Magnesium	4.36	0.0500	"	"	"	"	"	"	
Sodium	12.8	0.0500	"	"	"	"	"	"	

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Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**BKG 5 8.0ft**  
**2411333-25 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	<b>0.584</b>	0.00100	units	1	BHL1073	12/21/24	12/21/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	<b>97.9</b>		%	1	BHL0130	12/03/24	12/04/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.254</b>	0.0100	mmhos/cm	1	BHL0773	12/17/24	12/23/24	EPA 120.1	

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

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	<b>8.61</b>		pH Units	1	BHL0774	12/17/24	12/23/24	EPA 9045D	I-02

Summit Scientific

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Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**SEP DL Cen. 8.0ft**  
**2411333-26 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHK1231	11/23/24	11/27/24	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: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0390	97.5 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0396	99.1 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0416	104 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHK1234	11/23/24	11/28/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	11.7	93.8 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**SEP DL Cen. 8.0ft**  
**2411333-26 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK1241	11/25/24	11/26/24	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: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0233	70.0 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0225	67.4 %	40-140		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHL0360	12/09/24	12/11/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**SEP DL Cen. 8.0ft**  
**2411333-26 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	4.69	0.200	mg/kg dry	1	BHL0557	12/12/24	12/17/24	EPA 6020B
Barium	33.7	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.55	0.400	"	"	"	"	"	"
Lead	4.18	0.200	"	"	"	"	"	"
Nickel	2.08	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	7.86	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0451	12/11/24	12/11/24	EPA 7196A	

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

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	45.8	0.0500	mg/L dry	1	BHL0772	12/17/24	12/19/24	EPA 6020B	
Magnesium	1.22	0.0500	"	"	"	"	"	"	
Sodium	1.61	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0641	0.00100	units	1	BHL1073	12/21/24	12/21/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**SEP DL Cen. 8.0ft**  
**2411333-26 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.1		%	1	BHL0130	12/03/24	12/04/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.157	0.0100	mmhos/cm	1	BHL0773	12/17/24	12/23/24	EPA 120.1	

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

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.67		pH Units	1	BHL0774	12/17/24	12/23/24	EPA 9045D	I-02

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Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**SEP DL N 8.0ft**  
**2411333-27 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHK1231	11/23/24	11/27/24	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: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0381	95.3 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0402	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0408	102 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHK1234	11/23/24	11/28/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	10.7	85.6 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**SEP DL N 8.0ft**  
**2411333-27 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK1241	11/25/24	11/26/24	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: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0224	67.3 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0224	67.2 %	40-140		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHL0360	12/09/24	12/11/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**SEP DL N 8.0ft**  
**2411333-27 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	3.87	0.200	mg/kg dry	1	BHL0557	12/12/24	12/17/24	EPA 6020B
Barium	45.9	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.16	0.400	"	"	"	"	"	"
Lead	2.80	0.200	"	"	"	"	"	"
Nickel	2.14	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	6.77	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0451	12/11/24	12/11/24	EPA 7196A	

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

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	36.3	0.0500	mg/L dry	1	BHL0772	12/17/24	12/19/24	EPA 6020B	
Magnesium	1.94	0.0500	"	"	"	"	"	"	
Sodium	1.51	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0662	0.00100	units	1	BHL1073	12/21/24	12/21/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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Wellington CO, 80549

Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**SEP DL N 8.0ft**  
**2411333-27 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.2		%	1	BHL0130	12/03/24	12/04/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.128	0.0100	mmhos/cm	1	BHL0773	12/17/24	12/23/24	EPA 120.1	

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

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.48		pH Units	1	BHL0774	12/17/24	12/23/24	EPA 9045D	I-02

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**SEP DL S 8.0ft**  
**2411333-28 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHK1231	11/23/24	11/27/24	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: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0384	95.9 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0399	99.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0412	103 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHK1234	11/23/24	11/28/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	11.8	94.3 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**SEP DL S 8.0ft**  
**2411333-28 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK1241	11/25/24	11/26/24	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: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0225	67.4 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0222	66.7 %	40-140		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHL0360	12/09/24	12/11/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**SEP DL S 8.0ft**  
**2411333-28 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	2.43	0.200	mg/kg dry	1	BHL0557	12/12/24	12/17/24	EPA 6020B
Barium	42.1	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	1.78	0.400	"	"	"	"	"	"
Lead	3.15	0.200	"	"	"	"	"	"
Nickel	1.64	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	6.76	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0451	12/11/24	12/11/24	EPA 7196A	

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

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	174	0.0500	mg/L dry	1	BHL0772	12/17/24	12/19/24	EPA 6020B	
Magnesium	2.02	0.0500	"	"	"	"	"	"	
Sodium	0.736	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0152	0.00100	units	1	BHL1073	12/21/24	12/21/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**SEP DL S 8.0ft**  
**2411333-28 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.8		%	1	BHL0130	12/03/24	12/04/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.120	0.0100	mmhos/cm	1	BHL0773	12/17/24	12/23/24	EPA 120.1	

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

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.91		pH Units	1	BHL0774	12/17/24	12/23/24	EPA 9045D	I-02

Summit Scientific

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Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**SEP DL E 8.0ft**  
**2411333-29 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHK1231	11/23/24	11/27/24	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: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0372	93.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0393	98.2 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0410	102 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHK1234	11/23/24	11/28/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	12.1	97.0 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**SEP DL E 8.0ft**  
**2411333-29 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK1241	11/25/24	11/26/24	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: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0179	53.7 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0170	51.0 %	40-140		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHL0360	12/09/24	12/11/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**SEP DL E 8.0ft**  
**2411333-29 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	2.91	0.200	mg/kg dry	1	BHL0557	12/12/24	12/17/24	EPA 6020B
Barium	43.2	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	1.83	0.400	"	"	"	"	"	"
Lead	3.58	0.200	"	"	"	"	"	"
Nickel	1.85	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	6.94	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0451	12/11/24	12/11/24	EPA 7196A	

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

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	584	0.0500	mg/L dry	1	BHL0772	12/17/24	12/19/24	EPA 6020B	
Magnesium	2.33	0.0500	"	"	"	"	"	"	
Sodium	0.117	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.00133	0.00100	units	1	BHL1073	12/21/24	12/21/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**SEP DL E 8.0ft**  
**2411333-29 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.9		%	1	BHL0130	12/03/24	12/04/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.119	0.0100	mmhos/cm	1	BHL0773	12/17/24	12/23/24	EPA 120.1	

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

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.86		pH Units	1	BHL0774	12/17/24	12/23/24	EPA 9045D	I-02

Summit Scientific

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Wellington CO, 80549

Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**SEP DL W 8.0ft**  
**2411333-30 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHK1231	11/23/24	11/27/24	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: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0392	98.1 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0398	99.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0408	102 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHK1234	11/23/24	11/28/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	11.3	90.0 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**SEP DL W 8.0ft**  
**2411333-30 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK1241	11/25/24	11/26/24	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: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0251	75.3 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0240	72.0 %	40-140		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHL0360	12/09/24	12/11/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**SEP DL W 8.0ft**  
**2411333-30 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	5.78	0.200	mg/kg dry	1	BHL0557	12/12/24	12/17/24	EPA 6020B
Barium	27.4	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.70	0.400	"	"	"	"	"	"
Lead	4.39	0.200	"	"	"	"	"	"
Nickel	2.70	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	8.33	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0451	12/11/24	12/11/24	EPA 7196A	

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

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	178	0.0500	mg/L dry	1	BHL0772	12/17/24	12/20/24	EPA 6020B	
Magnesium	8.82	0.0500	"	"	"	"	"	"	
Sodium	8.71	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.173	0.00100	units	1	BHL1073	12/21/24	12/21/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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Wellington CO, 80549

Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**SEP DL W 8.0ft**  
**2411333-30 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.6		%	1	BHL0130	12/03/24	12/04/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.121	0.0100	mmhos/cm	1	BHL0773	12/17/24	12/23/24	EPA 120.1	

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

Date Sampled: **11/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.00		pH Units	1	BHL0774	12/17/24	12/23/24	EPA 9045D	I-02

Summit Scientific

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Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

### Summit Scientific

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

#### Batch BHK1231 - EPA 5030 Soil MS

##### Blank (BHK1231-BLK1)

Prepared: 11/23/24 Analyzed: 11/25/24

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	0.0360		"	0.0400		90.1	50-150			
Surrogate: Toluene-d8	0.0395		"	0.0400		98.8	50-150			
Surrogate: 4-Bromofluorobenzene	0.0402		"	0.0400		100	50-150			

##### LCS (BHK1231-BS1)

Prepared: 11/23/24 Analyzed: 11/25/24

Benzene	0.110	0.0020	mg/kg	0.100		110	70-130			
Toluene	0.117	0.0050	"	0.100		117	70-130			
Ethylbenzene	0.122	0.0050	"	0.100		122	70-130			
m,p-Xylene	0.235	0.010	"	0.200		117	70-130			
o-Xylene	0.112	0.0050	"	0.100		112	70-130			
1,2,4-Trimethylbenzene	0.117	0.0050	"	0.100		117	70-130			
1,3,5-Trimethylbenzene	0.121	0.0050	"	0.100		121	70-130			
Naphthalene	0.0976	0.0038	"	0.100		97.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0381		"	0.0400		95.2	50-150			
Surrogate: Toluene-d8	0.0401		"	0.0400		100	50-150			
Surrogate: 4-Bromofluorobenzene	0.0395		"	0.0400		98.7	50-150			

##### Matrix Spike (BHK1231-MS1)

Source: 2411178-06

Prepared: 11/23/24 Analyzed: 11/25/24

Benzene	0.0985	0.0020	mg/kg	0.100	ND	98.5	70-130			
Toluene	0.102	0.0050	"	0.100	ND	102	70-130			
Ethylbenzene	0.104	0.0050	"	0.100	ND	104	70-130			
m,p-Xylene	0.201	0.010	"	0.200	ND	100	70-130			
o-Xylene	0.0963	0.0050	"	0.100	ND	96.3	70-130			
1,2,4-Trimethylbenzene	0.0993	0.0050	"	0.100	ND	99.3	70-130			
1,3,5-Trimethylbenzene	0.100	0.0050	"	0.100	ND	100	70-130			
Naphthalene	0.0898	0.0038	"	0.100	ND	89.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0417		"	0.0400		104	50-150			
Surrogate: Toluene-d8	0.0406		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0407		"	0.0400		102	50-150			

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Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Summit Scientific**

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

**Batch BHK1231 - EPA 5030 Soil MS**

Matrix Spike Dup (BHK1231-MSD1)	Source: 2411178-06			Prepared: 11/23/24 Analyzed: 11/25/24						
Benzene	0.101	0.0020	mg/kg	0.100	ND	101	70-130	2.62	30	
Toluene	0.104	0.0050	"	0.100	ND	104	70-130	1.52	30	
Ethylbenzene	0.106	0.0050	"	0.100	ND	106	70-130	2.17	30	
m,p-Xylene	0.207	0.010	"	0.200	ND	104	70-130	3.40	30	
o-Xylene	0.0997	0.0050	"	0.100	ND	99.7	70-130	3.46	30	
1,2,4-Trimethylbenzene	0.103	0.0050	"	0.100	ND	103	70-130	4.00	30	
1,3,5-Trimethylbenzene	0.105	0.0050	"	0.100	ND	105	70-130	4.50	30	
Naphthalene	0.0884	0.0038	"	0.100	ND	88.4	70-130	1.55	30	
Surrogate: 1,2-Dichloroethane-d4	0.0410		"	0.0400		102	50-150			
Surrogate: Toluene-d8	0.0400		"	0.0400		100	50-150			
Surrogate: 4-Bromofluorobenzene	0.0407		"	0.0400		102	50-150			

Summit Scientific

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Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

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

**Batch BHK1234 - EPA 3550A**

**Blank (BHK1234-BLK1)**

Prepared: 11/23/24 Analyzed: 11/28/24

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	12.2		"	12.5		97.9	30-150			

**LCS (BHK1234-BS1)**

Prepared: 11/23/24 Analyzed: 11/28/24

C10-C28 (DRO)	578	50	mg/kg	500		116	70-130			
Surrogate: o-Terphenyl	12.6		"	12.5		101	30-150			

**Matrix Spike (BHK1234-MS1)**

Source: 2411178-06

Prepared: 11/23/24 Analyzed: 11/28/24

C10-C28 (DRO)	517	50	mg/kg	500	26.6	98.1	70-130			
Surrogate: o-Terphenyl	11.6		"	12.5		92.6	30-150			

**Matrix Spike Dup (BHK1234-MSD1)**

Source: 2411178-06

Prepared: 11/23/24 Analyzed: 11/28/24

C10-C28 (DRO)	525	50	mg/kg	500	26.6	99.7	70-130	1.52	20	
Surrogate: o-Terphenyl	11.5		"	12.5		91.9	30-150			

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Fremont Environmental  
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Wellington CO, 80549

Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

### PAH by EPA Method 8270D SIM - Quality Control

#### Summit Scientific

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

#### Batch BHK1241 - EPA 5030 Soil MS

##### Blank (BHK1241-BLK1)

Prepared: 11/25/24 Analyzed: 11/26/24

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0278		"	0.0333		83.3	40-140			
Surrogate: Fluoranthene-d10	0.0276		"	0.0333		82.9	40-140			

##### LCS (BHK1241-BS1)

Prepared: 11/25/24 Analyzed: 11/26/24

Acenaphthene	0.0236	0.00500	mg/kg	0.0333		70.8	40-140			
Anthracene	0.0230	0.00500	"	0.0333		69.0	40-140			
Benzo (a) anthracene	0.0238	0.00500	"	0.0333		71.4	40-140			
Benzo (a) pyrene	0.0222	0.00500	"	0.0333		66.5	40-140			
Benzo (b) fluoranthene	0.0225	0.00500	"	0.0333		67.5	40-140			
Benzo (k) fluoranthene	0.0237	0.00500	"	0.0333		71.0	40-140			
Chrysene	0.0244	0.00500	"	0.0333		73.3	40-140			
Dibenz (a,h) anthracene	0.0211	0.00500	"	0.0333		63.2	40-140			
Fluoranthene	0.0237	0.00500	"	0.0333		71.2	40-140			
Fluorene	0.0239	0.00500	"	0.0333		71.8	40-140			
Indeno (1,2,3-cd) pyrene	0.0214	0.00500	"	0.0333		64.1	40-140			
Pyrene	0.0256	0.00500	"	0.0333		76.9	40-140			
1-Methylnaphthalene	0.0227	0.00500	"	0.0333		68.0	40-140			
2-Methylnaphthalene	0.0235	0.00500	"	0.0333		70.4	40-140			
Surrogate: 2-Methylnaphthalene-d10	0.0247		"	0.0333		74.0	40-140			
Surrogate: Fluoranthene-d10	0.0246		"	0.0333		73.8	40-140			

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Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

## PAH by EPA Method 8270D SIM - Quality Control

### Summit Scientific

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

#### Batch BHK1241 - EPA 5030 Soil MS

Matrix Spike (BHK1241-MS1)			Source: 2411333-01		Prepared: 11/25/24 Analyzed: 11/26/24						
Acenaphthene	0.0231	0.00500	mg/kg	0.0333	ND	69.3	40-140				
Anthracene	0.0229	0.00500	"	0.0333	ND	68.6	40-140				
Benzo (a) anthracene	0.0235	0.00500	"	0.0333	ND	70.6	40-140				
Benzo (a) pyrene	0.0216	0.00500	"	0.0333	ND	64.9	40-140				
Benzo (b) fluoranthene	0.0222	0.00500	"	0.0333	ND	66.5	40-140				
Benzo (k) fluoranthene	0.0230	0.00500	"	0.0333	ND	68.9	40-140				
Chrysene	0.0239	0.00500	"	0.0333	ND	71.6	40-140				
Dibenz (a,h) anthracene	0.0209	0.00500	"	0.0333	ND	62.8	40-140				
Fluoranthene	0.0236	0.00500	"	0.0333	ND	70.7	40-140				
Fluorene	0.0237	0.00500	"	0.0333	ND	71.2	40-140				
Indeno (1,2,3-cd) pyrene	0.0211	0.00500	"	0.0333	ND	63.2	40-140				
Pyrene	0.0246	0.00500	"	0.0333	ND	73.9	40-140				
1-Methylnaphthalene	0.0229	0.00500	"	0.0333	ND	68.6	40-140				
2-Methylnaphthalene	0.0233	0.00500	"	0.0333	ND	69.8	40-140				
Surrogate: 2-Methylnaphthalene-d10	0.0248		"	0.0333		74.4	40-140				
Surrogate: Fluoranthene-d10	0.0246		"	0.0333		73.7	40-140				

Matrix Spike Dup (BHK1241-MSD1)			Source: 2411333-01		Prepared: 11/25/24 Analyzed: 11/26/24						
Acenaphthene	0.0235	0.00500	mg/kg	0.0333	ND	70.5	40-140	1.68	30		
Anthracene	0.0224	0.00500	"	0.0333	ND	67.3	40-140	2.00	30		
Benzo (a) anthracene	0.0232	0.00500	"	0.0333	ND	69.5	40-140	1.51	30		
Benzo (a) pyrene	0.0210	0.00500	"	0.0333	ND	63.1	40-140	2.82	30		
Benzo (b) fluoranthene	0.0211	0.00500	"	0.0333	ND	63.4	40-140	4.69	30		
Benzo (k) fluoranthene	0.0214	0.00500	"	0.0333	ND	64.3	40-140	6.90	30		
Chrysene	0.0229	0.00500	"	0.0333	ND	68.7	40-140	4.15	30		
Dibenz (a,h) anthracene	0.0221	0.00500	"	0.0333	ND	66.4	40-140	5.59	30		
Fluoranthene	0.0232	0.00500	"	0.0333	ND	69.6	40-140	1.60	30		
Fluorene	0.0236	0.00500	"	0.0333	ND	70.8	40-140	0.516	30		
Indeno (1,2,3-cd) pyrene	0.0225	0.00500	"	0.0333	ND	67.6	40-140	6.63	30		
Pyrene	0.0242	0.00500	"	0.0333	ND	72.5	40-140	1.93	30		
1-Methylnaphthalene	0.0224	0.00500	"	0.0333	ND	67.3	40-140	1.86	30		
2-Methylnaphthalene	0.0223	0.00500	"	0.0333	ND	67.0	40-140	4.15	30		
Surrogate: 2-Methylnaphthalene-d10	0.0441		"	0.0333		132	40-140				
Surrogate: Fluoranthene-d10	0.0458		"	0.0333		137	40-140				

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Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

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

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

**Batch BHL0176 - EPA 3050B**

<b>Blank (BHL0176-BLK1)</b>				Prepared: 12/04/24 Analyzed: 12/07/24						
Boron	ND	2.00	mg/L							
<b>LCS (BHL0176-BS1)</b>				Prepared: 12/04/24 Analyzed: 12/07/24						
Boron	5.11	2.00	mg/L	5.00		102	80-120			
<b>Duplicate (BHL0176-DUP1)</b>				<b>Source: 2411332-01</b>		Prepared: 12/04/24 Analyzed: 12/07/24				
Boron	0.565	2.00	mg/L		0.215			89.6	20	QR-01
<b>Matrix Spike (BHL0176-MS1)</b>				<b>Source: 2411332-01</b>		Prepared: 12/04/24 Analyzed: 12/07/24				
Boron	5.51	2.00	mg/L	5.00	0.215	106	75-125			
<b>Matrix Spike Dup (BHL0176-MSD1)</b>				<b>Source: 2411332-01</b>		Prepared: 12/04/24 Analyzed: 12/07/24				
Boron	5.64	2.00	mg/L	5.00	0.215	109	75-125	2.38	25	

**Batch BHL0222 - EPA 3050B**

<b>Blank (BHL0222-BLK1)</b>				Prepared: 12/05/24 Analyzed: 12/07/24						
Boron	ND	2.00	mg/L							
<b>LCS (BHL0222-BS1)</b>				Prepared: 12/05/24 Analyzed: 12/07/24						
Boron	5.00	2.00	mg/L	5.00		100	80-120			
<b>Duplicate (BHL0222-DUP1)</b>				<b>Source: 2411333-11</b>		Prepared: 12/05/24 Analyzed: 12/07/24				
Boron	0.231	2.00	mg/L		0.270			15.2	20	
<b>Matrix Spike (BHL0222-MS1)</b>				<b>Source: 2411333-11</b>		Prepared: 12/05/24 Analyzed: 12/07/24				
Boron	5.18	2.00	mg/L	4.98	0.270	98.7	75-125			

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Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

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

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

**Batch BHL0222 - EPA 3050B**

**Matrix Spike Dup (BHL0222-MSD1)**

**Source: 2411333-11**

Prepared: 12/05/24 Analyzed: 12/07/24

Boron	5.41	2.00	mg/L	4.98	0.270	103	75-125	4.29	25	
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**Batch BHL0360 - EPA 3050B**

**Blank (BHL0360-BLK1)**

Prepared: 12/09/24 Analyzed: 12/11/24

Boron	ND	2.00	mg/L							
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**LCS (BHL0360-BS1)**

Prepared: 12/09/24 Analyzed: 12/11/24

Boron	4.74	2.00	mg/L	5.00		94.7	80-120			
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**Duplicate (BHL0360-DUP1)**

**Source: 2411333-21**

Prepared: 12/09/24 Analyzed: 12/11/24

Boron	0.0967	2.00	mg/L		0.167			53.6	20	QR-01
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**Matrix Spike (BHL0360-MS1)**

**Source: 2411333-21**

Prepared: 12/09/24 Analyzed: 12/11/24

Boron	4.61	2.00	mg/L	5.00	0.167	88.9	75-125			
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**Matrix Spike Dup (BHL0360-MSD1)**

**Source: 2411333-21**

Prepared: 12/09/24 Analyzed: 12/11/24

Boron	4.76	2.00	mg/L	5.00	0.167	91.9	75-125	3.17	25	
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Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BHL0464 - EPA 3050B**

**Blank (BHL0464-BLK1)**

Prepared: 12/11/24 Analyzed: 12/17/24

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 (BHL0464-BS1)**

Prepared: 12/11/24 Analyzed: 12/17/24

Arsenic	41.8	0.200	mg/kg wet	41.7	100	80-120
Barium	37.8	0.400	"	41.7	90.8	80-120
Cadmium	1.95	0.200	"	2.08	93.5	80-120
Copper	38.9	0.400	"	41.7	93.4	80-120
Lead	19.4	0.200	"	20.8	93.2	80-120
Nickel	40.2	0.400	"	41.7	96.6	80-120
Silver	1.94	0.0200	"	2.08	93.3	80-120
Zinc	40.3	0.400	"	41.7	96.7	80-120
Selenium	4.16	0.260	"	4.17	99.9	80-120

**Duplicate (BHL0464-DUP1)**

Source: 2410399-38

Prepared: 12/11/24 Analyzed: 12/17/24

Arsenic	0.945	0.200	mg/kg dry	0.855	9.91	20
Barium	27.0	0.400	"	26.9	0.600	20
Cadmium	0.0575	0.200	"	0.0540	6.26	20
Copper	0.761	0.400	"	0.741	2.64	20
Lead	2.23	0.200	"	2.21	0.838	20
Nickel	0.874	0.400	"	0.816	6.92	20
Silver	0.00894	0.0200	"	0.00701	24.3	20
Zinc	3.72	0.400	"	3.74	0.412	20
Selenium	ND	0.260	"	ND		20

QR-01

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Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BHL0464 - EPA 3050B**

Matrix Spike (BHL0464-MS1)			Source: 2410399-38		Prepared: 12/11/24 Analyzed: 12/17/24					
Arsenic	19.5	0.200	mg/kg dry	40.9	0.855	45.5	75-125			QM-05
Barium	64.5	0.400	"	40.9	26.9	92.1	75-125			
Cadmium	1.92	0.200	"	2.04	0.0540	91.3	75-125			
Copper	18.5	0.400	"	40.9	0.741	43.4	75-125			QM-05
Lead	20.3	0.200	"	20.4	2.21	88.6	75-125			
Nickel	19.3	0.400	"	40.9	0.816	45.2	75-125			QM-05
Silver	1.89	0.0200	"	2.04	0.00701	92.3	75-125			
Zinc	22.2	0.400	"	40.9	3.74	45.2	75-125			QM-05
Selenium	ND	0.260	"	4.09	ND		75-125			QM-05

Matrix Spike Dup (BHL0464-MSD1)			Source: 2410399-38		Prepared: 12/11/24 Analyzed: 12/17/24					
Arsenic	19.8	0.200	mg/kg dry	41.2	0.855	45.8	75-125	1.47	25	QM-05
Barium	63.7	0.400	"	41.2	26.9	89.4	75-125	1.26	25	
Cadmium	1.98	0.200	"	2.06	0.0540	93.2	75-125	2.84	25	
Copper	18.7	0.400	"	41.2	0.741	43.6	75-125	1.12	25	QM-05
Lead	20.1	0.200	"	20.6	2.21	86.9	75-125	1.05	25	
Nickel	19.4	0.400	"	41.2	0.816	45.1	75-125	0.682	25	QM-05
Silver	1.83	0.0200	"	2.06	0.00701	88.3	75-125	3.57	25	
Zinc	22.5	0.400	"	41.2	3.74	45.6	75-125	1.30	25	QM-05
Selenium	ND	0.260	"	4.12	ND		75-125		25	QM-05

**Batch BHL0546 - EPA 3050B**

Blank (BHL0546-BLK1)			Prepared: 12/12/24 Analyzed: 12/18/24							
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	"							

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Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BHL0546 - EPA 3050B**

**LCS (BHL0546-BS1)**

Prepared: 12/12/24 Analyzed: 12/18/24

Arsenic	37.4	0.200	mg/kg wet	40.3		92.8	80-120			
Barium	37.5	0.400	"	40.3		93.0	80-120			
Cadmium	1.86	0.200	"	2.02		92.1	80-120			
Copper	37.2	0.400	"	40.3		92.2	80-120			
Lead	18.8	0.200	"	20.2		93.5	80-120			
Nickel	38.1	0.400	"	40.3		94.4	80-120			
Silver	1.90	0.0200	"	2.02		94.4	80-120			
Zinc	38.2	0.400	"	40.3		94.7	80-120			
Selenium	3.89	0.260	"	4.03		96.4	80-120			

**Duplicate (BHL0546-DUP1)**

Source: 2411333-04

Prepared: 12/12/24 Analyzed: 12/18/24

Arsenic	2.42	0.200	mg/kg dry		2.59			6.59	20	
Barium	265	0.400	"		180			37.9	20	QR-04
Cadmium	0.232	0.200	"		0.194			17.8	20	
Copper	4.87	0.400	"		3.94			21.1	20	QR-04
Lead	10.3	0.200	"		5.92			53.7	20	QR-04
Nickel	4.17	0.400	"		3.67			12.6	20	
Silver	0.0246	0.0200	"		0.0211			15.4	20	
Zinc	12.4	0.400	"		13.2			6.12	20	
Selenium	ND	0.260	"		ND				20	

**Matrix Spike (BHL0546-MS1)**

Source: 2411333-04

Prepared: 12/12/24 Analyzed: 12/18/24

Arsenic	43.3	0.200	mg/kg dry	45.8	2.59	89.0	75-125			
Barium	190	0.400	"	45.8	180	20.5	75-125			QM-05
Cadmium	2.34	0.200	"	2.29	0.194	93.8	75-125			
Copper	40.8	0.400	"	45.8	3.94	80.6	75-125			
Lead	25.9	0.200	"	22.9	5.92	87.3	75-125			
Nickel	35.5	0.400	"	45.8	3.67	69.5	75-125			QM-05
Silver	2.17	0.0200	"	2.29	0.0211	94.1	75-125			
Zinc	44.0	0.400	"	45.8	13.2	67.5	75-125			QM-05
Selenium	3.62	0.260	"	4.58	ND	79.1	75-125			

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Project: Noble - Lucci B01-23 Facility (SI)  
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Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BHL0546 - EPA 3050B**

**Matrix Spike Dup (BHL0546-MSD1)**

Source: 2411333-04

Prepared: 12/12/24 Analyzed: 12/18/24

Arsenic	41.8	0.200	mg/kg dry	44.3	2.59	88.5	75-125	3.52	25	
Barium	172	0.400	"	44.3	180	NR	75-125	9.51	25	QM-05
Cadmium	2.29	0.200	"	2.22	0.194	94.5	75-125	2.27	25	
Copper	39.5	0.400	"	44.3	3.94	80.3	75-125	3.26	25	
Lead	26.5	0.200	"	22.2	5.92	93.1	75-125	2.47	25	
Nickel	35.1	0.400	"	44.3	3.67	70.9	75-125	1.07	25	QM-05
Silver	2.08	0.0200	"	2.22	0.0211	92.8	75-125	4.52	25	
Zinc	44.8	0.400	"	44.3	13.2	71.4	75-125	1.74	25	QM-05
Selenium	3.65	0.260	"	4.43	ND	82.4	75-125	0.910	25	

**Batch BHL0557 - EPA 3050B**

**Blank (BHL0557-BLK1)**

Prepared: 12/12/24 Analyzed: 12/17/24

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 (BHL0557-BS1)**

Prepared: 12/12/24 Analyzed: 12/17/24

Arsenic	40.4	0.200	mg/kg wet	41.0	98.6	80-120
Barium	41.0	0.400	"	41.0	100	80-120
Cadmium	1.87	0.200	"	2.05	91.3	80-120
Copper	39.7	0.400	"	41.0	97.0	80-120
Lead	18.8	0.200	"	20.5	91.9	80-120
Nickel	39.5	0.400	"	41.0	96.5	80-120
Silver	1.89	0.0200	"	2.05	92.4	80-120
Zinc	37.6	0.400	"	41.0	91.8	80-120
Selenium	4.19	0.260	"	4.10	102	80-120

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

### Total Metals by EPA 6020B - Quality Control

#### Summit Scientific

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

#### Batch BHL0557 - EPA 3050B

Duplicate (BHL0557-DUP1)		Source: 2411333-23			Prepared: 12/12/24 Analyzed: 12/17/24						
Arsenic	1.61	0.200	mg/kg dry		1.72			6.81	20		
Barium	44.2	0.400	"		54.5			20.9	20		QR-04
Cadmium	0.0685	0.200	"		0.0682			0.393	20		
Copper	1.17	0.400	"		1.22			4.11	20		
Lead	2.26	0.200	"		2.46			8.63	20		
Nickel	1.75	0.400	"		1.62			7.51	20		
Silver	0.00564	0.0200	"		0.00639			12.6	20		
Zinc	6.82	0.400	"		6.73			1.42	20		
Selenium	ND	0.260	"		ND				20		

Matrix Spike (BHL0557-MS1)		Source: 2411333-23			Prepared: 12/12/24 Analyzed: 12/17/24						
Arsenic	43.2	0.200	mg/kg dry	42.6	1.72	97.3	75-125				
Barium	92.2	0.400	"	42.6	54.5	88.4	75-125				
Cadmium	2.07	0.200	"	2.13	0.0682	93.9	75-125				
Copper	36.7	0.400	"	42.6	1.22	83.3	75-125				
Lead	22.4	0.200	"	21.3	2.46	93.4	75-125				
Nickel	36.7	0.400	"	42.6	1.62	82.3	75-125				
Silver	1.97	0.0200	"	2.13	0.00639	92.2	75-125				
Zinc	41.1	0.400	"	42.6	6.73	80.7	75-125				
Selenium	3.77	0.260	"	4.26	ND	88.4	75-125				

Matrix Spike Dup (BHL0557-MSD1)		Source: 2411333-23			Prepared: 12/12/24 Analyzed: 12/17/24						
Arsenic	43.8	0.200	mg/kg dry	41.9	1.72	100	75-125	1.41	25		
Barium	93.7	0.400	"	41.9	54.5	93.4	75-125	1.60	25		
Cadmium	2.14	0.200	"	2.10	0.0682	99.0	75-125	3.52	25		
Copper	36.6	0.400	"	41.9	1.22	84.4	75-125	0.288	25		
Lead	22.5	0.200	"	21.0	2.46	95.7	75-125	0.741	25		
Nickel	36.7	0.400	"	41.9	1.62	83.6	75-125	0.0328	25		
Silver	1.99	0.0200	"	2.10	0.00639	94.8	75-125	1.05	25		
Zinc	41.9	0.400	"	41.9	6.73	83.9	75-125	1.87	25		
Selenium	3.71	0.260	"	4.19	ND	88.6	75-125	1.49	25		

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Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BHL0557 - EPA 3050B**

Post Spike (BHL0557-PS1)	Source: 2411333-23			Prepared: 12/12/24 Analyzed: 12/17/24						
Arsenic	110		ug/l	100	4.21	106	75-125			
Barium	230		"	100	133	96.7	75-125			
Cadmium	5.24		"	5.00	0.167	101	75-125			
Copper	94.6		"	100	2.99	91.6	75-125			
Lead	55.7		"	50.0	6.02	99.3	75-125			
Nickel	96.0		"	100	3.97	92.0	75-125			
Silver	5.11		"	5.00	0.0156	102	75-125			
Zinc	106		"	100	16.4	89.4	75-125			
Selenium	10.0		"	10.0	0.0656	99.5	75-125			

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Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

**Hexavalent Chromium by EPA Method 7196 - Quality Control**  
**Summit Scientific**

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

**Batch BHL0450 - 3060A Mod**

**Blank (BHL0450-BLK1)**

Prepared & Analyzed: 12/11/24

Chromium, Hexavalent ND 0.30 mg/kg wet

**LCS (BHL0450-BS1)**

Prepared & Analyzed: 12/11/24

Chromium, Hexavalent 25.4 0.30 mg/kg wet 25.0 101 80-120

**Duplicate (BHL0450-DUP1)**

**Source: 2411333-01**

Prepared & Analyzed: 12/11/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

**Matrix Spike (BHL0450-MS1)**

**Source: 2411333-01**

Prepared & Analyzed: 12/11/24

Chromium, Hexavalent 26.8 0.30 mg/kg dry 25.4 ND 106 75-125

**Matrix Spike Dup (BHL0450-MSD1)**

**Source: 2411333-01**

Prepared & Analyzed: 12/11/24

Chromium, Hexavalent 26.8 0.30 mg/kg dry 25.4 ND 106 75-125 0.00 20

**Batch BHL0451 - 3060A Mod**

**Blank (BHL0451-BLK1)**

Prepared & Analyzed: 12/11/24

Chromium, Hexavalent ND 0.30 mg/kg wet

**LCS (BHL0451-BS1)**

Prepared & Analyzed: 12/11/24

Chromium, Hexavalent 25.4 0.30 mg/kg wet 25.0 101 80-120

**Duplicate (BHL0451-DUP1)**

**Source: 2411323-01**

Prepared & Analyzed: 12/11/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

**Matrix Spike (BHL0451-MS1)**

**Source: 2411323-01**

Prepared & Analyzed: 12/11/24

Chromium, Hexavalent 26.5 0.30 mg/kg dry 27.2 ND 97.4 75-125

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Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Lucci B01-23 Facility (SI) Project Number: UWRWE-A2077-ABN CO23-269 Project Manager: Paul Henchan	Reported: 12/23/24 08:20
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Hexavalent Chromium by EPA Method 7196 - Quality Control  
Summit Scientific

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

Batch BHL0451 - 3060A Mod

Matrix Spike Dup (BHL0451-MSD1)	Source: 2411323-01			Prepared & Analyzed: 12/11/24						
Chromium, Hexavalent	28.5	0.30	mg/kg dry	27.2	ND	105	75-125	7.32	20	

*Atalio Bessin*



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

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

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

**Batch BHL0772 - General Preparation**

**Blank (BHL0772-BLK1)**

Prepared: 12/17/24 Analyzed: 12/19/24

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

**LCS (BHL0772-BS1)**

Prepared: 12/17/24 Analyzed: 12/19/24

Calcium	4.87	0.0500	mg/L wet	5.00	97.4	70-130
Magnesium	4.82	0.0500	"	5.00	96.4	70-130
Sodium	4.79	0.0500	"	5.00	95.9	70-130

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Fremont Environmental	Project: Noble - Lucci B01-23 Facility (SI)	
PO Box 1289	Project Number: UWRWE-A2077-ABN CO23-269	Reported:
Wellington CO, 80549	Project Manager: Paul Henchan	12/23/24 08:20

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

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

Batch BHL0130 - General Preparation

Duplicate (BHL0130-DUP1)	Source: 2411333-01		Prepared: 12/03/24 Analyzed: 12/04/24		
% Solids	98.4	%	98.4	0.0341	20

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*Atalio Bessin*



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

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

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

**Batch BHL0773 - General Preparation**

**Blank (BHL0773-BLK1)**

Prepared: 12/17/24 Analyzed: 12/23/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BHL0773-BS1)**

Prepared: 12/17/24 Analyzed: 12/23/24

Specific Conductance (EC) 1.42 0.0100 mmhos/cm 95-105

**Duplicate (BHL0773-DUP1)**

**Source: 2411333-01**

Prepared: 12/17/24 Analyzed: 12/23/24

Specific Conductance (EC) 0.119 0.0100 mmhos/cm 0.116 2.39 20

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Project: Noble - Lucci B01-23 Facility (SI)  
Project Number: UWRWE-A2077-ABN CO23-269  
Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

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

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

**Batch BHL0774 - General Preparation**

**LCS (BHL0774-BS1)**

Prepared: 12/17/24 Analyzed: 12/23/24

pH	9.19	pH Units	9.18	100	95-105
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**Duplicate (BHL0774-DUP1)**

**Source: 2411333-01**

Prepared: 12/17/24 Analyzed: 12/23/24

pH	8.70	pH Units	8.73	0.311	20
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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Lucci B01-23 Facility (SI)

Project Number: UWRWE-A2077-ABN CO23-269

Project Manager: Paul Henchan

**Reported:**  
12/23/24 08:20

### Notes and Definitions

QR-04	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
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.
I-02	Sample was prepared outside of holding time.
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