

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

March 25, 2024

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: Noble - Lucci B (BKG)
Work Order #2403017

Enclosed are the results of analyses for samples received by Summit Scientific on 03/01/24 14:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink that reads "Jacob Wood". The signature is written in a cursive style with a small "w" at the end of the last name.

Jacob Wood For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci B (BKG)
Project Number: UWRWE-A2065-ABN
Project Manager: Paul Henchan

Reported:
03/25/24 11:30

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BKG01 0.5'	2403017-01	Soil	02/29/24 13:10	03/01/24 14:50
BKG01 3'	2403017-02	Soil	02/29/24 13:15	03/01/24 14:50
BKG01 4'	2403017-03	Soil	02/29/24 13:20	03/01/24 14:50
BKG02 0.5'	2403017-04	Soil	02/29/24 13:25	03/01/24 14:50
BKG02 3'	2403017-05	Soil	02/29/24 13:30	03/01/24 14:50
BKG02 4'	2403017-06	Soil	02/29/24 13:35	03/01/24 14:50
BKG03 0.5'	2403017-07	Soil	02/29/24 13:40	03/01/24 14:50
BKG03 3'	2403017-08	Soil	02/29/24 13:45	03/01/24 14:50
BKG03 4'	2403017-09	Soil	02/29/24 13:50	03/01/24 14:50
BKG04 0.5'	2403017-10	Soil	02/29/24 13:55	03/01/24 14:50
BKG04 3'	2403017-11	Soil	02/29/24 14:00	03/01/24 14:50
BKG04 4'	2403017-12	Soil	02/29/24 14:05	03/01/24 14:50
BKG05 0.5'	2403017-13	Soil	03/01/24 09:55	03/01/24 14:50
BKG05 3'	2403017-14	Soil	03/01/24 10:00	03/01/24 14:50
BKG05 4'	2403017-15	Soil	03/01/24 10:05	03/01/24 14:50
BKG06 0.5'	2403017-16	Soil	03/01/24 09:40	03/01/24 14:50
BKG06 3'	2403017-17	Soil	03/01/24 09:45	03/01/24 14:50
BKG06 4'	2403017-18	Soil	03/01/24 09:50	03/01/24 14:50

Summit Scientific

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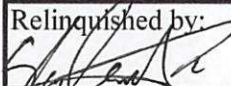
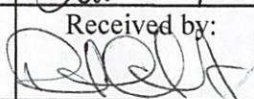
Send Data To:		Send Invoice To:
Client: Fremont Environmental	Project Manager: Paul Henehan	Company: Noble
Address:	E-Mail: Fremont Distribution List	Project Name/Location:
City/State/Zip:		AFE#:
Phone: 303-261-6246	Project Name: Lucci, B (BK6)	PO/Billing Codes: UWRWE-A2065-ABN
Sampler Name: Stanley Gilbert	Project Number:	Contact: Mike Montoya

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested						Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX, TMBs, Naph.	TPH	PAH (915)	EC, SAR, Ph, Boron	Metals (915)	TDS, Chloride, Sulfate	
1	BK601 0.5'	2/29/24	13:10	1			X			X						X	X		
2	BK601 3'		13:15																
3	BK601 4'		13:20																
4	BK602 0.5'		13:25																
5	BK602 3'		13:30																
6	BK602 4'		13:35																
7	BK603 0.5'		13:40																
8	BK603 3'		13:45																
9	BK603 4'		13:50																
10	BK604 0.5'		13:55																
11	BK604 3'		14:00																
12	BK604 4'		14:05																
13	BK605 0.5'	3/1/24	9:55																
14	BK605 3'		10:00																
15	BK605 4'		10:05																

Relinquished by:	Date/Time: 3/1/24 14:50	Received by: Summit North	Date/Time: 3/1/24 14:50	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by:	Date/Time: 3/24 14:30	Received by:	Date/Time: 3/24 14:30	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: 8.7	Corrected Temperature:	IR gun #: 1	HNO3 lot #:			

Client: Fremont Environmental		Send Data To: Project Manager: Paul Henehan		Send Invoice To: Company: <u>Noble</u>	
Address:		E-Mail: Fremont Distribution List		Project Name/Location:	
City/State/Zip:		Project Name: <u>Lucci B (BKG)</u>		AFE#:	
Phone: 303-261-6246		Project Number:		PO/Billing Codes: <u>UWRWE-A2065-ABN</u>	
Sampler Name: Stanley Gilbert				Contact: <u>Mike Montoya</u>	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Analysis Requested						Special Instructions		
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX, TMBs, Naph.	TPH	PAH (915)	EC, SAR, Ph, Boron		Metals (915)	TDS, Chloride, Sulfate
1	BKG06 0.5'	3/1/24	9:40	1			X			X					X	X			
2	BKG06 3'	1	9:45	1			X			X					X	X			
3	BKG06 4'	1	9:50	1			X			X					X	X			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			

Relinquished by: 	Date/Time: 3/1/24 14:50	Received by: <u>Summit North</u>	Date/Time: 3/1/24 14:50	TAT Business Days	Field DO	Notes:
Relinquished by: <u>82</u>	Date/Time: 3/24 1630	Received by: 	Date/Time: 3/24 1630	Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
				Standard	<input checked="" type="checkbox"/> Field Turb.	
Temperature Upon Receipt: <u>8.3</u>	Corrected Temperature: <u>8</u>	IR gun #: <u>1</u>	HNO3 lot #:			

S₂

2/2

Sample Receipt Checklist

S2 Work Order# 2403017

Client: Fremont

Client Project ID: Lucci B (BKG)

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

Airbill #:

Grid of boxes for shipping options

Matrix (Check all that apply)

Air

Soil/Solid

Water

Other

Temp (°C)

8.3

Thermometer #

1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	none
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	"
Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

[Signature]

Custodian Printed Name

3-1-24

Date/Time

17:39



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci B (BKG)
Project Number: UWRWE-A2065-ABN
Project Manager: Paul Henchan

Reported:
03/25/24 11:30

BKG01 0.5'
2403017-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/29/24 13:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHC0442	03/15/24	03/21/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **02/29/24 13:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.08	0.200	mg/kg dry	1	BHC0547	03/16/24	03/21/24	EPA 6020B	
Barium	54.0	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.94	0.400	"	"	"	"	"	"	
Lead	4.19	0.200	"	"	"	"	"	"	
Nickel	2.62	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	12.1	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **02/29/24 13:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0532	03/15/24	03/19/24	EPA 7196A	

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

Date Sampled: **02/29/24 13:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	408	0.0500	mg/L dry	1	BHC0500	03/15/24	03/21/24	EPA 6020B	
Magnesium	95.5	0.0500	"	"	"	"	"	"	
Sodium	242	0.0500	"	"	"	"	"	"	

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 Wellington CO, 80549

Project: Noble - Lucci B (BKG)
 Project Number: UWRWE-A2065-ABN
 Project Manager: Paul Henchan

Reported:
 03/25/24 11:30

BKG01 0.5'
2403017-01 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **02/29/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.80	0.00100	units	1	BHC0841	03/21/24	03/21/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/29/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.8		%	1	BHC0382	03/13/24	03/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/29/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.91	0.0100	mmhos/cm	1	BHC0502	03/15/24	03/18/24	EPA 120.1	

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

Date Sampled: **02/29/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.95		pH Units	1	BHC0504	03/15/24	03/18/24	EPA 9045D	

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Wellington CO, 80549

Project: Noble - Lucci B (BKG)
Project Number: UWRWE-A2065-ABN
Project Manager: Paul Henchan

Reported:
03/25/24 11:30

BKG01 3'
2403017-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/29/24 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHC0442	03/15/24	03/21/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **02/29/24 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.57	0.200	mg/kg dry	1	BHC0547	03/16/24	03/21/24	EPA 6020B	
Barium	45.5	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.42	0.400	"	"	"	"	"	"	
Lead	4.28	0.200	"	"	"	"	"	"	
Nickel	2.38	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	10.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **02/29/24 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0532	03/15/24	03/19/24	EPA 7196A	

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

Date Sampled: **02/29/24 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	324	0.0500	mg/L dry	1	BHC0500	03/15/24	03/21/24	EPA 6020B	
Magnesium	110	0.0500	"	"	"	"	"	"	
Sodium	668	0.0500	"	"	"	"	"	"	

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Fremont Environmental
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 Wellington CO, 80549

Project: Noble - Lucci B (BKG)
 Project Number: UWRWE-A2065-ABN
 Project Manager: Paul Henchan

Reported:
 03/25/24 11:30

BKG01 3'
2403017-02 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **02/29/24 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	8.18	0.00100	units	1	BHC0841	03/21/24	03/21/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/29/24 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.1		%	1	BHC0382	03/13/24	03/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/29/24 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	5.62	0.0100	mmhos/cm	1	BHC0502	03/15/24	03/18/24	EPA 120.1	

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

Date Sampled: **02/29/24 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.97		pH Units	1	BHC0504	03/15/24	03/18/24	EPA 9045D	

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Fremont Environmental
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Wellington CO, 80549

Project: Noble - Lucci B (BKG)

Project Number: UWRWE-A2065-ABN
Project Manager: Paul Henchan

Reported:
03/25/24 11:30

BKG01 4'
2403017-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/29/24 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHC0442	03/15/24	03/21/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **02/29/24 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	1.97	0.200		mg/kg dry	1	BHC0547	03/16/24	03/21/24	EPA 6020B	
Barium	33.3	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
Copper	1.90	0.400		"	"	"	"	"	"	
Lead	4.16	0.200		"	"	"	"	"	"	
Nickel	1.57	0.400		"	"	"	"	"	"	
Silver	ND	0.0200		"	"	"	"	"	"	
Zinc	7.83	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **02/29/24 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHC0532	03/15/24	03/19/24	EPA 7196A	

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

Date Sampled: **02/29/24 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	495	0.0500		mg/L dry	1	BHC0500	03/15/24	03/21/24	EPA 6020B	
Magnesium	109	0.0500		"	"	"	"	"	"	
Sodium	273	0.0500		"	"	"	"	"	"	

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Project: Noble - Lucci B (BKG)
Project Number: UWRWE-A2065-ABN
Project Manager: Paul Henchan

Reported:
03/25/24 11:30

BKG01 4'
2403017-03 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **02/29/24 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.89	0.00100	units	1	BHC0841	03/21/24	03/21/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/29/24 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.1		%	1	BHC0382	03/13/24	03/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/29/24 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	4.25	0.0100	mmhos/cm	1	BHC0502	03/15/24	03/18/24	EPA 120.1	

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

Date Sampled: **02/29/24 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.95		pH Units	1	BHC0504	03/15/24	03/18/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci B (BKG)
Project Number: UWRWE-A2065-ABN
Project Manager: Paul Henchan

Reported:
03/25/24 11:30

BKG02 0.5'
2403017-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/29/24 13:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHC0442	03/15/24	03/21/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **02/29/24 13:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.08	0.200	mg/kg dry	1	BHC0547	03/16/24	03/21/24	EPA 6020B	
Barium	51.1	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.14	0.400	"	"	"	"	"	"	
Lead	4.14	0.200	"	"	"	"	"	"	
Nickel	2.65	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	12.6	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **02/29/24 13:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0532	03/15/24	03/19/24	EPA 7196A	

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

Date Sampled: **02/29/24 13:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	35.7	0.0500	mg/L dry	1	BHC0500	03/15/24	03/21/24	EPA 6020B	
Magnesium	13.4	0.0500	"	"	"	"	"	"	
Sodium	294	0.0500	"	"	"	"	"	"	

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 B (BKG)
Project Number: UWRWE-A2065-ABN
Project Manager: Paul Henchan

Reported:
03/25/24 11:30

BKG02 0.5'
2403017-04 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **02/29/24 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	10.6	0.00100	units	1	BHC0841	03/21/24	03/21/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/29/24 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.4		%	1	BHC0382	03/13/24	03/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/29/24 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.85	0.0100	mmhos/cm	1	BHC0502	03/15/24	03/18/24	EPA 120.1	

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

Date Sampled: **02/29/24 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.05		pH Units	1	BHC0504	03/15/24	03/18/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci B (BKG)
Project Number: UWRWE-A2065-ABN
Project Manager: Paul Henchan

Reported:
03/25/24 11:30

BKG02 3'
2403017-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/29/24 13:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHC0442	03/15/24	03/21/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **02/29/24 13:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.27	0.200	mg/kg dry	1	BHC0547	03/16/24	03/21/24	EPA 6020B	
Barium	39.8	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.48	0.400	"	"	"	"	"	"	
Lead	3.92	0.200	"	"	"	"	"	"	
Nickel	2.52	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	10.8	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **02/29/24 13:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0532	03/15/24	03/19/24	EPA 7196A	

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

Date Sampled: **02/29/24 13:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	316	0.0500	mg/L dry	1	BHC0500	03/15/24	03/21/24	EPA 6020B	
Magnesium	119	0.0500	"	"	"	"	"	"	
Sodium	678	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lucci B (BKG)
 Project Number: UWRWE-A2065-ABN
 Project Manager: Paul Henchan

Reported:
 03/25/24 11:30

BKG02 3'
2403017-05 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **02/29/24 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	8.25	0.00100	units	1	BHC0841	03/21/24	03/21/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/29/24 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.2		%	1	BHC0382	03/13/24	03/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/29/24 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	5.61	0.0100	mmhos/cm	1	BHC0502	03/15/24	03/18/24	EPA 120.1	

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

Date Sampled: **02/29/24 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.03		pH Units	1	BHC0504	03/15/24	03/18/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci B (BKG)
Project Number: UWRWE-A2065-ABN
Project Manager: Paul Henchan

Reported:
03/25/24 11:30

BKG02 4'
2403017-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/29/24 13:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHC0442	03/15/24	03/21/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **02/29/24 13:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.75	0.200	mg/kg dry	1	BHC0547	03/16/24	03/21/24	EPA 6020B	
Barium	44.2	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.94	0.400	"	"	"	"	"	"	
Lead	5.51	0.200	"	"	"	"	"	"	
Nickel	2.52	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	12.2	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **02/29/24 13:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0532	03/15/24	03/19/24	EPA 7196A	

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

Date Sampled: **02/29/24 13:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	248	0.0500	mg/L dry	1	BHC0500	03/15/24	03/21/24	EPA 6020B	
Magnesium	52.1	0.0500	"	"	"	"	"	"	
Sodium	166	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lucci B (BKG)
 Project Number: UWRWE-A2065-ABN
 Project Manager: Paul Henchan

Reported:
 03/25/24 11:30

BKG02 4'
2403017-06 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **02/29/24 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.50	0.00100	units	1	BHC0841	03/21/24	03/21/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/29/24 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.7		%	1	BHC0382	03/13/24	03/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/29/24 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.64	0.0100	mmhos/cm	1	BHC0502	03/15/24	03/18/24	EPA 120.1	

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

Date Sampled: **02/29/24 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.88		pH Units	1	BHC0504	03/15/24	03/18/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci B (BKG)
Project Number: UWRWE-A2065-ABN
Project Manager: Paul Henchan

Reported:
03/25/24 11:30

BKG03 0.5'
2403017-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/29/24 13:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHC0442	03/15/24	03/21/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **02/29/24 13:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.99	0.200	mg/kg dry	1	BHC0547	03/16/24	03/21/24	EPA 6020B	
Barium	36.1	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.80	0.400	"	"	"	"	"	"	
Lead	4.19	0.200	"	"	"	"	"	"	
Nickel	2.61	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	12.0	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **02/29/24 13:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0532	03/15/24	03/19/24	EPA 7196A	

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

Date Sampled: **02/29/24 13:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	54.6	0.0500	mg/L dry	1	BHC0500	03/15/24	03/21/24	EPA 6020B	
Magnesium	11.1	0.0500	"	"	"	"	"	"	
Sodium	4.86	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci B (BKG)
Project Number: UWRWE-A2065-ABN
Project Manager: Paul Henchan

Reported:
03/25/24 11:30

BKG03 0.5'
2403017-07 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **02/29/24 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.157	0.00100	units	1	BHC0841	03/21/24	03/21/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/29/24 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.6		%	1	BHC0382	03/13/24	03/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/29/24 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.156	0.0100	mmhos/cm	1	BHC0502	03/15/24	03/18/24	EPA 120.1	

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

Date Sampled: **02/29/24 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.69		pH Units	1	BHC0504	03/15/24	03/18/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci B (BKG)
Project Number: UWRWE-A2065-ABN
Project Manager: Paul Henchan

Reported:
03/25/24 11:30

BKG03 3'
2403017-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/29/24 13:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHC0442	03/15/24	03/21/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **02/29/24 13:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.25	0.200	mg/kg dry	1	BHC0547	03/16/24	03/21/24	EPA 6020B	
Barium	88.1	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.34	0.400	"	"	"	"	"	"	
Lead	4.06	0.200	"	"	"	"	"	"	
Nickel	2.55	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	10.4	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **02/29/24 13:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0532	03/15/24	03/19/24	EPA 7196A	

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

Date Sampled: **02/29/24 13:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	52.4	0.0500	mg/L dry	1	BHC0500	03/15/24	03/21/24	EPA 6020B	
Magnesium	4.28	0.0500	"	"	"	"	"	"	
Sodium	3.22	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci B (BKG)
Project Number: UWRWE-A2065-ABN
Project Manager: Paul Henchan

Reported:
03/25/24 11:30

BKG03 3'
2403017-08 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **02/29/24 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.115	0.00100	units	1	BHC0841	03/21/24	03/21/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/29/24 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.9		%	1	BHC0382	03/13/24	03/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/29/24 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.126	0.0100	mmhos/cm	1	BHC0502	03/15/24	03/18/24	EPA 120.1	

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

Date Sampled: **02/29/24 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.83		pH Units	1	BHC0504	03/15/24	03/18/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci B (BKG)
Project Number: UWRWE-A2065-ABN
Project Manager: Paul Henchan

Reported:
03/25/24 11:30

BKG03 4'
2403017-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/29/24 13:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHC0442	03/15/24	03/21/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **02/29/24 13:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	5.01	0.200	mg/kg dry	1	BHC0547	03/16/24	03/21/24	EPA 6020B	
Barium	88.8	0.400	"	"	"	"	"	"	
Cadmium	0.202	0.200	"	"	"	"	"	"	
Copper	2.88	0.400	"	"	"	"	"	"	
Lead	5.22	0.200	"	"	"	"	"	"	
Nickel	3.63	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	11.6	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **02/29/24 13:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0532	03/15/24	03/19/24	EPA 7196A	

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

Date Sampled: **02/29/24 13:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	77.3	0.0500	mg/L dry	1	BHC0500	03/15/24	03/21/24	EPA 6020B	
Magnesium	5.79	0.0500	"	"	"	"	"	"	
Sodium	2.98	0.0500	"	"	"	"	"	"	

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 B (BKG)
 Project Number: UWRWE-A2065-ABN
 Project Manager: Paul Henchan

Reported:
 03/25/24 11:30

BKG03 4'
2403017-09 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **02/29/24 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0881	0.00100	units	1	BHC0841	03/21/24	03/21/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/29/24 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.1		%	1	BHC0382	03/13/24	03/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/29/24 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.202	0.0100	mmhos/cm	1	BHC0502	03/15/24	03/18/24	EPA 120.1	

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

Date Sampled: **02/29/24 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.43		pH Units	1	BHC0504	03/15/24	03/18/24	EPA 9045D	

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 B (BKG)
Project Number: UWRWE-A2065-ABN
Project Manager: Paul Henchan

Reported:
03/25/24 11:30

BKG04 0.5'
2403017-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/29/24 13:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHC0442	03/15/24	03/21/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **02/29/24 13:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.08	0.200	mg/kg dry	1	BHC0547	03/16/24	03/21/24	EPA 6020B	
Barium	37.0	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.62	0.400	"	"	"	"	"	"	
Lead	4.08	0.200	"	"	"	"	"	"	
Nickel	2.55	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	11.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **02/29/24 13:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0532	03/15/24	03/19/24	EPA 7196A	

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

Date Sampled: **02/29/24 13:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	42.1	0.0500	mg/L dry	1	BHC0500	03/15/24	03/21/24	EPA 6020B	
Magnesium	8.75	0.0500	"	"	"	"	"	"	
Sodium	0.969	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lucci B (BKG)
 Project Number: UWRWE-A2065-ABN
 Project Manager: Paul Henchan

Reported:
 03/25/24 11:30

BKG04 0.5'
2403017-10 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **02/29/24 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0355	0.00100	units	1	BHC0841	03/21/24	03/21/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/29/24 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.0		%	1	BHC0382	03/13/24	03/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/29/24 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0716	0.0100	mmhos/cm	1	BHC0502	03/15/24	03/18/24	EPA 120.1	

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

Date Sampled: **02/29/24 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.20		pH Units	1	BHC0504	03/15/24	03/18/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci B (BKG)
Project Number: UWRWE-A2065-ABN
Project Manager: Paul Henchan

Reported:
03/25/24 11:30

BKG04 3'
2403017-11 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/29/24 14:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHC0442	03/15/24	03/21/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **02/29/24 14:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	4.40	0.200	mg/kg dry	1	BHC0547	03/16/24	03/21/24	EPA 6020B	
Barium	160	0.400	"	"	"	"	"	"	
Cadmium	0.442	0.200	"	"	"	"	"	"	
Copper	5.79	0.400	"	"	"	"	"	"	
Lead	12.8	0.200	"	"	"	"	"	"	
Nickel	5.89	0.400	"	"	"	"	"	"	
Silver	0.0753	0.0200	"	"	"	"	"	"	
Zinc	22.4	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **02/29/24 14:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0532	03/15/24	03/19/24	EPA 7196A	

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

Date Sampled: **02/29/24 14:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	134	0.0500	mg/L dry	1	BHC0500	03/15/24	03/21/24	EPA 6020B	
Magnesium	8.06	0.0500	"	"	"	"	"	"	
Sodium	25.4	0.0500	"	"	"	"	"	"	

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lucci B (BKG)
 Project Number: UWRWE-A2065-ABN
 Project Manager: Paul Henchan

Reported:
 03/25/24 11:30

BKG04 3'
2403017-11 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **02/29/24 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.576	0.00100	units	1	BHC0841	03/21/24	03/21/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/29/24 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.9		%	1	BHC0382	03/13/24	03/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/29/24 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.222	0.0100	mmhos/cm	1	BHC0502	03/15/24	03/18/24	EPA 120.1	

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

Date Sampled: **02/29/24 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.52		pH Units	1	BHC0504	03/15/24	03/18/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci B (BKG)
Project Number: UWRWE-A2065-ABN
Project Manager: Paul Henchan

Reported:
03/25/24 11:30

BKG04 4'
2403017-12 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/29/24 14:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHC0442	03/15/24	03/21/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **02/29/24 14:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.85	0.200	mg/kg dry	1	BHC0547	03/16/24	03/21/24	EPA 6020B	
Barium	130	0.400	"	"	"	"	"	"	
Cadmium	0.348	0.200	"	"	"	"	"	"	
Copper	5.97	0.400	"	"	"	"	"	"	
Lead	11.0	0.200	"	"	"	"	"	"	
Nickel	5.78	0.400	"	"	"	"	"	"	
Silver	0.0662	0.0200	"	"	"	"	"	"	
Zinc	22.3	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **02/29/24 14:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0532	03/15/24	03/19/24	EPA 7196A	

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

Date Sampled: **02/29/24 14:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	99.1	0.0500	mg/L dry	1	BHC0500	03/15/24	03/21/24	EPA 6020B	
Magnesium	7.81	0.0500	"	"	"	"	"	"	
Sodium	49.1	0.0500	"	"	"	"	"	"	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci B (BKG)
Project Number: UWRWE-A2065-ABN
Project Manager: Paul Henchan

Reported:
03/25/24 11:30

BKG04 4'
2403017-12 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **02/29/24 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.28	0.00100	units	1	BHC0841	03/21/24	03/21/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/29/24 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.0		%	1	BHC0382	03/13/24	03/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/29/24 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.405	0.0100	mmhos/cm	1	BHC0502	03/15/24	03/18/24	EPA 120.1	

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

Date Sampled: **02/29/24 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.45		pH Units	1	BHC0504	03/15/24	03/18/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci B (BKG)
Project Number: UWRWE-A2065-ABN
Project Manager: Paul Henchan

Reported:
03/25/24 11:30

BKG05 0.5'
2403017-13 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/01/24 09:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHC0442	03/15/24	03/21/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/01/24 09:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.23	0.200	mg/kg dry	1	BHC0547	03/16/24	03/21/24	EPA 6020B	
Barium	80.8	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.76	0.400	"	"	"	"	"	"	
Lead	5.00	0.200	"	"	"	"	"	"	
Nickel	2.79	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	12.2	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/01/24 09:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0532	03/15/24	03/19/24	EPA 7196A	

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

Date Sampled: **03/01/24 09:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	88.9	0.0500	mg/L dry	1	BHC0500	03/15/24	03/21/24	EPA 6020B	
Magnesium	14.1	0.0500	"	"	"	"	"	"	
Sodium	1.01	0.0500	"	"	"	"	"	"	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci B (BKG)
Project Number: UWRWE-A2065-ABN
Project Manager: Paul Henchan

Reported:
03/25/24 11:30

BKG05 0.5'
2403017-13 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/01/24 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0263	0.00100	units	1	BHC0841	03/21/24	03/21/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/01/24 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.8		%	1	BHC0382	03/13/24	03/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/01/24 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0734	0.0100	mmhos/cm	1	BHC0502	03/15/24	03/18/24	EPA 120.1	

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

Date Sampled: **03/01/24 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.68		pH Units	1	BHC0504	03/15/24	03/18/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci B (BKG)
Project Number: UWRWE-A2065-ABN
Project Manager: Paul Henchan

Reported:
03/25/24 11:30

BKG05 3'
2403017-14 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/01/24 10:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHC0442	03/15/24	03/21/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/01/24 10:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.80	0.200	mg/kg dry	1	BHC0547	03/16/24	03/21/24	EPA 6020B	
Barium	37.0	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.97	0.400	"	"	"	"	"	"	
Lead	3.75	0.200	"	"	"	"	"	"	
Nickel	2.35	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	8.97	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/01/24 10:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0532	03/15/24	03/19/24	EPA 7196A	

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

Date Sampled: **03/01/24 10:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	98.2	0.0500	mg/L dry	1	BHC0500	03/15/24	03/21/24	EPA 6020B	
Magnesium	10.2	0.0500	"	"	"	"	"	"	
Sodium	0.750	0.0500	"	"	"	"	"	"	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci B (BKG)
Project Number: UWRWE-A2065-ABN
Project Manager: Paul Henchan

Reported:
03/25/24 11:30

BKG05 3'
2403017-14 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/01/24 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0193	0.00100	units	1	BHC0841	03/21/24	03/21/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/01/24 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.3		%	1	BHC0382	03/13/24	03/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/01/24 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.113	0.0100	mmhos/cm	1	BHC0502	03/15/24	03/18/24	EPA 120.1	

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

Date Sampled: **03/01/24 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.56		pH Units	1	BHC0504	03/15/24	03/18/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci B (BKG)
Project Number: UWRWE-A2065-ABN
Project Manager: Paul Henchan

Reported:
03/25/24 11:30

BKG05 4'
2403017-15 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/01/24 10:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHC0442	03/15/24	03/21/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/01/24 10:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	1.56	0.200		mg/kg dry	1	BHC0547	03/16/24	03/21/24	EPA 6020B	
Barium	55.6	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
Copper	1.59	0.400		"	"	"	"	"	"	
Lead	4.62	0.200		"	"	"	"	"	"	
Nickel	1.96	0.400		"	"	"	"	"	"	
Silver	ND	0.0200		"	"	"	"	"	"	
Zinc	8.02	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/01/24 10:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHC0532	03/15/24	03/19/24	EPA 7196A	

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

Date Sampled: **03/01/24 10:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	180	0.0500		mg/L dry	1	BHC0500	03/15/24	03/21/24	EPA 6020B	
Magnesium	3.53	0.0500		"	"	"	"	"	"	
Sodium	0.773	0.0500		"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lucci B (BKG)
 Project Number: UWRWE-A2065-ABN
 Project Manager: Paul Henchan

Reported:
 03/25/24 11:30

BKG05 4'
2403017-15 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/01/24 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0156	0.00100	units	1	BHC0841	03/21/24	03/21/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/01/24 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.8		%	1	BHC0382	03/13/24	03/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/01/24 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0932	0.0100	mmhos/cm	1	BHC0502	03/15/24	03/18/24	EPA 120.1	

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

Date Sampled: **03/01/24 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.80		pH Units	1	BHC0504	03/15/24	03/18/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci B (BKG)
Project Number: UWRWE-A2065-ABN
Project Manager: Paul Henchan

Reported:
03/25/24 11:30

BKG06 0.5'
2403017-16 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/01/24 09:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHC0442	03/15/24	03/21/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/01/24 09:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	1.90	0.200		mg/kg dry	1	BHC0547	03/16/24	03/21/24	EPA 6020B	
Barium	32.1	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
Copper	2.05	0.400		"	"	"	"	"	"	
Lead	3.81	0.200		"	"	"	"	"	"	
Nickel	2.17	0.400		"	"	"	"	"	"	
Silver	0.0362	0.0200		"	"	"	"	"	"	
Zinc	10.2	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/01/24 09:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHC0532	03/15/24	03/19/24	EPA 7196A	

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

Date Sampled: **03/01/24 09:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	76.1	0.0500		mg/L dry	1	BHC0500	03/15/24	03/21/24	EPA 6020B	
Magnesium	13.0	0.0500		"	"	"	"	"	"	
Sodium	0.724	0.0500		"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lucci B (BKG)
 Project Number: UWRWE-A2065-ABN
 Project Manager: Paul Henchan

Reported:
 03/25/24 11:30

BKG06 0.5'
2403017-16 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/01/24 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0202	0.00100	units	1	BHC0841	03/21/24	03/21/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/01/24 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.1		%	1	BHC0382	03/13/24	03/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/01/24 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0577	0.0100	mmhos/cm	1	BHC0502	03/15/24	03/18/24	EPA 120.1	

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

Date Sampled: **03/01/24 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.53		pH Units	1	BHC0504	03/15/24	03/18/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci B (BKG)

Project Number: UWRWE-A2065-ABN
Project Manager: Paul Henchan

Reported:
03/25/24 11:30

BKG06 3'
2403017-17 (Soil)

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Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/01/24 09:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHC0442	03/15/24	03/21/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/01/24 09:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	1.65	0.200		mg/kg dry	1	BHC0547	03/16/24	03/21/24	EPA 6020B	
Barium	32.7	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
Copper	1.48	0.400		"	"	"	"	"	"	
Lead	2.74	0.200		"	"	"	"	"	"	
Nickel	1.73	0.400		"	"	"	"	"	"	
Silver	ND	0.0200		"	"	"	"	"	"	
Zinc	7.76	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/01/24 09:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHC0532	03/15/24	03/19/24	EPA 7196A	

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

Date Sampled: **03/01/24 09:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	134	0.0500		mg/L dry	1	BHC0500	03/15/24	03/21/24	EPA 6020B	
Magnesium	24.8	0.0500		"	"	"	"	"	"	
Sodium	0.931	0.0500		"	"	"	"	"	"	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci B (BKG)
Project Number: UWRWE-A2065-ABN
Project Manager: Paul Henchan

Reported:
03/25/24 11:30

BKG06 3'
2403017-17 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/01/24 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0193	0.00100	units	1	BHC0841	03/21/24	03/21/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/01/24 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	98.2		%	1	BHC0382	03/13/24	03/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/01/24 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0423	0.0100	mmhos/cm	1	BHC0502	03/15/24	03/18/24	EPA 120.1	

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

Date Sampled: **03/01/24 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.10		pH Units	1	BHC0504	03/15/24	03/18/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci B (BKG)

Project Number: UWRWE-A2065-ABN
Project Manager: Paul Henchan

Reported:
03/25/24 11:30

BKG06 4'
2403017-18 (Soil)

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Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/01/24 09:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHC0442	03/15/24	03/21/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/01/24 09:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	2.08	0.200		mg/kg dry	1	BHC0547	03/16/24	03/21/24	EPA 6020B	
Barium	33.1	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
Copper	1.53	0.400		"	"	"	"	"	"	
Lead	3.11	0.200		"	"	"	"	"	"	
Nickel	1.95	0.400		"	"	"	"	"	"	
Silver	ND	0.0200		"	"	"	"	"	"	
Zinc	9.45	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/01/24 09:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHC0532	03/15/24	03/19/24	EPA 7196A	

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

Date Sampled: **03/01/24 09:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	36.4	0.0500		mg/L dry	1	BHC0500	03/15/24	03/21/24	EPA 6020B	
Magnesium	5.69	0.0500		"	"	"	"	"	"	
Sodium	0.656	0.0500		"	"	"	"	"	"	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci B (BKG)
Project Number: UWRWE-A2065-ABN
Project Manager: Paul Henchan

Reported:
03/25/24 11:30

BKG06 4'
2403017-18 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/01/24 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0267	0.00100	units	1	BHC0841	03/21/24	03/21/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/01/24 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.9		%	1	BHC0382	03/13/24	03/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/01/24 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.91	0.0100	mmhos/cm	1	BHC0502	03/15/24	03/18/24	EPA 120.1	

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

Date Sampled: **03/01/24 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.06		pH Units	1	BHC0504	03/15/24	03/18/24	EPA 9045D	

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lucci B (BKG)
 Project Number: UWRWE-A2065-ABN
 Project Manager: Paul Henchan

Reported:
 03/25/24 11:30

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

Summit Scientific

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

Batch BHC0442 - EPA 3050B

Blank (BHC0442-BLK1)

Prepared: 03/15/24 Analyzed: 03/21/24

Boron ND 2.00 mg/L

LCS (BHC0442-BS1)

Prepared: 03/15/24 Analyzed: 03/21/24

Boron 5.05 2.00 mg/L 5.00 101 80-120

Duplicate (BHC0442-DUP1)

Source: 2403017-01

Prepared: 03/15/24 Analyzed: 03/21/24

Boron 0.453 2.00 mg/L 0.490 7.92 20

Matrix Spike (BHC0442-MS1)

Source: 2403017-01

Prepared: 03/15/24 Analyzed: 03/21/24

Boron 4.94 2.00 mg/L 5.00 0.490 88.9 75-125

Matrix Spike Dup (BHC0442-MSD1)

Source: 2403017-01

Prepared: 03/15/24 Analyzed: 03/21/24

Boron 4.98 2.00 mg/L 5.00 0.490 89.7 75-125 0.807 25

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci B (BKG)
Project Number: UWRWE-A2065-ABN
Project Manager: Paul Henchan

Reported:
03/25/24 11:30

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHC0547 - EPA 3050B

Blank (BHC0547-BLK1)

Prepared: 03/16/24 Analyzed: 03/21/24

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 (BHC0547-BS1)

Prepared: 03/16/24 Analyzed: 03/21/24

Arsenic	40.2	0.200	mg/kg wet	40.0		100	80-120			
Barium	40.9	0.400	"	40.0		102	80-120			
Cadmium	2.05	0.200	"	2.00		102	80-120			
Copper	43.9	0.400	"	40.0		110	80-120			
Lead	20.3	0.200	"	20.0		102	80-120			
Nickel	43.3	0.400	"	40.0		108	80-120			
Silver	2.07	0.0200	"	2.00		104	80-120			
Zinc	43.3	0.400	"	40.0		108	80-120			
Selenium	4.19	0.260	"	4.00		105	80-120			

Duplicate (BHC0547-DUP1)

Source: 2403017-01

Prepared: 03/16/24 Analyzed: 03/21/24

Arsenic	2.16	0.200	mg/kg dry	2.08		3.77	20			
Barium	49.7	0.400	"	54.0		8.27	20			
Cadmium	0.119	0.200	"	0.124		4.10	20			
Copper	2.84	0.400	"	2.94		3.35	20			
Lead	4.08	0.200	"	4.19		2.64	20			
Nickel	2.55	0.400	"	2.62		2.64	20			
Silver	0.0157	0.0200	"	0.0153		2.67	20			
Zinc	11.7	0.400	"	12.1		3.03	20			
Selenium	ND	0.260	"	ND			20			

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lucci B (BKG)
 Project Number: UWRWE-A2065-ABN
 Project Manager: Paul Henchan

Reported:
 03/25/24 11:30

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHC0547 - EPA 3050B

Matrix Spike (BHC0547-MS1)

Source: 2403017-01

Prepared: 03/16/24 Analyzed: 03/21/24

Arsenic	43.9	0.200	mg/kg dry	41.3	2.08	101	75-125			
Barium	97.5	0.400	"	41.3	54.0	105	75-125			
Cadmium	2.28	0.200	"	2.07	0.124	104	75-125			
Copper	36.2	0.400	"	41.3	2.94	80.6	75-125			
Lead	25.8	0.200	"	20.7	4.19	105	75-125			
Nickel	36.3	0.400	"	41.3	2.62	81.5	75-125			
Silver	2.15	0.0200	"	2.07	0.0153	103	75-125			
Zinc	46.0	0.400	"	41.3	12.1	82.1	75-125			
Selenium	4.36	0.260	"	4.13	ND	105	75-125			

Matrix Spike Dup (BHC0547-MSD1)

Source: 2403017-01

Prepared: 03/16/24 Analyzed: 03/21/24

Arsenic	43.2	0.200	mg/kg dry	41.3	2.08	99.6	75-125	1.44	25
Barium	97.4	0.400	"	41.3	54.0	105	75-125	0.0925	25
Cadmium	2.24	0.200	"	2.07	0.124	102	75-125	1.68	25
Copper	35.4	0.400	"	41.3	2.94	78.6	75-125	2.31	25
Lead	25.6	0.200	"	20.7	4.19	104	75-125	0.608	25
Nickel	35.4	0.400	"	41.3	2.62	79.3	75-125	2.57	25
Silver	2.13	0.0200	"	2.07	0.0153	102	75-125	0.850	25
Zinc	45.2	0.400	"	41.3	12.1	80.1	75-125	1.82	25
Selenium	4.40	0.260	"	4.13	ND	107	75-125	1.05	25

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lucci B (BKG)
 Project Number: UWRWE-A2065-ABN
 Project Manager: Paul Henchan

Reported:
 03/25/24 11:30

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BHC0532 - 3060A Mod

Blank (BHC0532-BLK1)

Prepared: 03/15/24 Analyzed: 03/19/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHC0532-BS1)

Prepared: 03/15/24 Analyzed: 03/19/24

Chromium, Hexavalent 25.0 0.30 mg/kg wet 25.0 100 80-120

Duplicate (BHC0532-DUP1)

Source: 2403010-01

Prepared: 03/15/24 Analyzed: 03/19/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHC0532-MS1)

Source: 2403010-01

Prepared: 03/15/24 Analyzed: 03/19/24

Chromium, Hexavalent 28.9 0.30 mg/kg dry 28.5 ND 101 75-125

Matrix Spike Dup (BHC0532-MSD1)

Source: 2403010-01

Prepared: 03/15/24 Analyzed: 03/19/24

Chromium, Hexavalent 28.9 0.30 mg/kg dry 28.5 ND 101 75-125 0.00 20

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lucci B (BKG)
 Project Number: UWRWE-A2065-ABN
 Project Manager: Paul Henchan

Reported:
 03/25/24 11:30

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

Summit Scientific

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

Batch BHC0500 - General Preparation

Blank (BHC0500-BLK1)

Prepared: 03/15/24 Analyzed: 03/21/24

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

LCS (BHC0500-BS1)

Prepared: 03/15/24 Analyzed: 03/21/24

Calcium	5.04	0.0500	mg/L wet	5.00	101	70-130				
Magnesium	4.92	0.0500	"	5.00	98.3	70-130				
Sodium	5.01	0.0500	"	5.00	100	70-130				

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lucci B (BKG)

Project Number: UWRWE-A2065-ABN

Project Manager: Paul Henchan

Reported:
 03/25/24 11:30

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

Summit Scientific

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

Batch BHC0382 - General Preparation

Duplicate (BHC0382-DUP1)

Source: 2403017-01

Prepared: 03/13/24 Analyzed: 03/16/24

% Solids	96.7		%		96.8			0.120		20	
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Fremont Environmental
 PO Box 1289
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Project: Noble - Lucci B (BKG)
 Project Number: UWRWE-A2065-ABN
 Project Manager: Paul Henchan

Reported:
 03/25/24 11:30

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

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

Batch BHC0502 - General Preparation

Blank (BHC0502-BLK1)

Prepared: 03/15/24 Analyzed: 03/18/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHC0502-BS1)

Prepared: 03/15/24 Analyzed: 03/18/24

Specific Conductance (EC) 0.158 0.0100 mmhos/cm 0.150 105 95-105

Duplicate (BHC0502-DUP1)

Source: 2403017-01

Prepared: 03/15/24 Analyzed: 03/18/24

Specific Conductance (EC) 3.86 0.0100 mmhos/cm 3.91 1.18 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Lucci B (BKG)
 Project Number: UWRWE-A2065-ABN
 Project Manager: Paul Henchan

Reported:
 03/25/24 11:30

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

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

Batch BHC0504 - General Preparation

LCS (BHC0504-BS1)

Prepared: 03/15/24 Analyzed: 03/18/24

pH	9.06	pH Units	9.18	98.7	95-105
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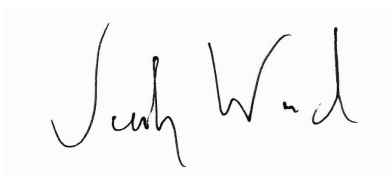
Duplicate (BHC0504-DUP1)

Source: 2403017-01

Prepared: 03/15/24 Analyzed: 03/18/24

pH	7.91	pH Units	7.95	0.504	20
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lucci B (BKG)
Project Number: UWRWE-A2065-ABN
Project Manager: Paul Henchan

Reported:
03/25/24 11:30

Notes and Definitions

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