

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

August 06, 2024

Paul Henchan  
Fremont Environmental  
PO Box 1289  
Wellington, CO 80549  
RE: Noble - Castor PC (BKG)  
Work Order #2407403

Enclosed are the results of analyses for samples received by Summit Scientific on 07/31/24 18:18. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Natalie Tessier For Paul Shrewsbury  
President



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Castor PC (BKG)

Project Number: UWREP-A2000-ABN

Project Manager: Paul Henchan

**Reported:**  
08/06/24 09:33

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BKG01 - 0.5FT	2407403-01	Soil	07/31/24 13:30	07/31/24 18:18
BKG01 - 3FT	2407403-02	Soil	07/31/24 13:35	07/31/24 18:18
BKG01 - 5FT	2407403-03	Soil	07/31/24 13:40	07/31/24 18:18
BKG01 - 6FT	2407403-04	Soil	07/31/24 13:45	07/31/24 18:18
BKG02 - 0.5FT	2407403-05	Soil	07/31/24 13:50	07/31/24 18:18
BKG02 - 3FT	2407403-06	Soil	07/31/24 13:55	07/31/24 18:18
BKG02 - 5FT	2407403-07	Soil	07/31/24 14:00	07/31/24 18:18
BKG02 - 6FT	2407403-08	Soil	07/31/24 14:05	07/31/24 18:18
BKG03 - 0.5FT	2407403-09	Soil	07/31/24 14:10	07/31/24 18:18
BKG03 - 3FT	2407403-10	Soil	07/31/24 14:15	07/31/24 18:18
BKG03 - 6FT	2407403-11	Soil	07/31/24 14:20	07/31/24 18:18
BKG03 - 5FT	2407403-12	Soil	07/31/24 14:25	07/31/24 18:18
BKG04 - 0.5FT	2407403-13	Soil	07/31/24 14:30	07/31/24 18:18
BKG04 - 3FT	2407403-14	Soil	07/31/24 14:35	07/31/24 18:18
BKG04 - 5FT	2407403-15	Soil	07/31/24 14:40	07/31/24 18:18
BKG04 - 6FT	2407403-16	Soil	07/31/24 13:05	07/31/24 18:18
BKG05 - 0.5FT	2407403-17	Soil	07/31/24 13:10	07/31/24 18:18
BKG05 - 3FT	2407403-18	Soil	07/31/24 13:15	07/31/24 18:18
BKG05 - 5FT	2407403-19	Soil	07/31/24 13:20	07/31/24 18:18
BKG05 - 6FT	2407403-20	Soil	07/31/24 13:25	07/31/24 18:18



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

Lab ID 2407403.1 Page 1 of 2

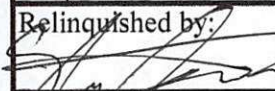
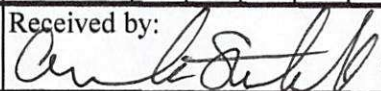
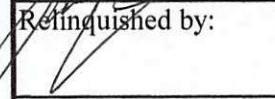
Client: Fremont Environmental		Send Data To: Project Manager: Paul Henehan		Send Invoice To: Company: <u>Noble</u>	
Address:		E-Mail: Fremont Distribution List		Project Name/Location:	
City/State/Zip:				AFE#:	
Phone: 303-261-6246		Project Name: <u>Castor Pl (BHG)</u>		PO/Billing Codes: <u>UWREP-A2000-ABN</u>	
Sampler Name: Stanley Gilbert		Project Number:		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	HOLD	
1	BHG01-0.5FT	7/31/24	13:30	1			X			X							X	X			
2	BHG01-3FT		13:35																		
3	BHG01-5FT		13:40																		
4	BHG01-6FT		13:45																		
5	BHG02-0.5FT		13:50																		
6	BHG02-3FT		13:55																		
7	BHG02-5FT		14:00																		
8	BHG02-6FT		14:05																		
9	BHG03-0.5FT		14:10																		
10	BHG03-3FT		14:15																		
11	BHG03-6FT		14:20																		
12	BHG03-5FT		14:25																		
13	BHG04-0.5FT		14:30																		
14	BHG04-3FT		14:35																		
15	BHG04-5FT		14:40																		

Relinquished by: <u>[Signature]</u>	Date/Time: <u>7/31/24 18:20</u>	Received by: <u>[Signature]</u>	Date/Time: <u>7/31/24 18:20</u>	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
Temperature Upon Receipt: <u>23.5</u>	Corrected Temperature	IR gun #: <u>2</u>	HNO3 lot #:	Standard	<input checked="" type="checkbox"/> Field Turb.	

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>Castor PC (BHG)</u>		AFE#:	
Phone: 303-261-6246		Project Number:		PO/Billing Codes: <u>UWREP-A2000-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	HOLD
1	BHG04-6Ft	7/31/24	13:05	1			X			X						X	X			
2	BHG05-0.5Ft		13:10																	
3	BHG05-3Ft		13:15																	
4	BHG05-5Ft		13:20																	
5	BHG05-6Ft		13:25																	
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				

Relinquished by: 	Date/Time: 7/31/24	Received by: 	Date/Time: 7/31/24 18:15	TAT Business Days	Field DO	Notes:
Relinquished by: 	Date/Time:	Received by:	Date/Time:	Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Temperature Upon Receipt: <u>23.5</u>	Corrected Temperature	IR gun #: <u>2</u>	HNO3 lot #:	Standard <input checked="" type="checkbox"/>	Field Turb.	

S<sub>2</sub>

Sample Receipt Checklist

S2 Work Order# 2407403

Client: Fremont Client Project ID: Castor PC (BEG)

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

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

Temp (°C) 23.5 Thermometer # 2

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact? <sup>(1)</sup>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>no sample times</u>
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>	<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.				

Control Form #: SRC-001

AS  
Custodian Printed Name

7/31/24  
Date/Time



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Castor PC (BKG)

Project Number: UWREP-A2000-ABN  
Project Manager: Paul Henchan

**Reported:**  
08/06/24 09:33

**BKG01 - 0.5FT**  
**2407403-01 (Soil)**

Summit Scientific

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

Date Sampled: **07/31/24 13:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHH0010	08/01/24	08/03/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **07/31/24 13:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	5.09	0.200		mg/kg dry	1	BHH0022	08/01/24	08/06/24	EPA 6020B	
Barium	271	0.400		"	"	"	"	"	"	
Cadmium	0.292	0.200		"	"	"	"	"	"	
Copper	5.40	0.400		"	"	"	"	"	"	
Lead	19.4	0.200		"	"	"	"	"	"	
Nickel	3.30	0.400		"	"	"	"	"	"	
Silver	0.0274	0.0200		"	"	"	"	"	"	
Zinc	14.9	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **07/31/24 13:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHH0034	08/01/24	08/01/24	EPA 7196A	

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

Date Sampled: **07/31/24 13:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	195	0.0500		mg/L dry	1	BHH0031	08/01/24	08/02/24	EPA 6020B	
Magnesium	121	0.0500		"	"	"	"	"	"	
Sodium	79.2	0.0500		"	"	"	"	"	"	

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Castor PC (BKG)  
 Project Number: UWREP-A2000-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 08/06/24 09:33

**BKG01 - 0.5FT**  
**2407403-01 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **07/31/24 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.10	0.00100	units	1	BHH0104	08/05/24	08/05/24	Calculation	

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

Date Sampled: **07/31/24 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.9		%	1	BHH0011	08/01/24	08/01/24	Calculation	

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

Date Sampled: **07/31/24 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.381	0.0100	mmhos/cm	1	BHH0033	08/01/24	08/02/24	EPA 120.1	

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

Date Sampled: **07/31/24 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.28		pH Units	1	BHH0032	08/01/24	08/02/24	EPA 9045D	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Castor PC (BKG)

Project Number: UWREP-A2000-ABN  
Project Manager: Paul Henchan

**Reported:**  
08/06/24 09:33

**BKG01 - 3FT**  
**2407403-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **07/31/24 13:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHH0010	08/01/24	08/03/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **07/31/24 13:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	11.5	0.200		mg/kg dry	1	BHH0022	08/01/24	08/06/24	EPA 6020B	
Barium	164	0.400		"	"	"	"	"	"	
Cadmium	0.244	0.200		"	"	"	"	"	"	
Copper	5.59	0.400		"	"	"	"	"	"	
Lead	15.2	0.200		"	"	"	"	"	"	
Nickel	3.04	0.400		"	"	"	"	"	"	
Silver	0.0319	0.0200		"	"	"	"	"	"	
Zinc	14.4	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **07/31/24 13:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHH0034	08/01/24	08/01/24	EPA 7196A	

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

Date Sampled: **07/31/24 13:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	162	0.0500		mg/L dry	1	BHH0031	08/01/24	08/02/24	EPA 6020B	
Magnesium	121	0.0500		"	"	"	"	"	"	
Sodium	191	0.0500		"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Castor PC (BKG)  
 Project Number: UWREP-A2000-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 08/06/24 09:33

**BKG01 - 3FT**  
**2407403-02 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **07/31/24 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.77	0.00100	units	1	BHH0104	08/05/24	08/05/24	Calculation	

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

Date Sampled: **07/31/24 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	77.7		%	1	BHH0011	08/01/24	08/01/24	Calculation	

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

Date Sampled: **07/31/24 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.520	0.0100	mmhos/cm	1	BHH0033	08/01/24	08/02/24	EPA 120.1	

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

Date Sampled: **07/31/24 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.69		pH Units	1	BHH0032	08/01/24	08/02/24	EPA 9045D	

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PO Box 1289  
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Project: Noble - Castor PC (BKG)

Project Number: UWREP-A2000-ABN  
Project Manager: Paul Henchan

**Reported:**  
08/06/24 09:33

**BKG01 - 5FT**  
**2407403-03 (Soil)**

**Summit Scientific**

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

Date Sampled: **07/31/24 13:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHH0010	08/01/24	08/03/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **07/31/24 13:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	11.8	0.200	mg/kg dry	1	BHH0022	08/01/24	08/06/24	EPA 6020B	
Barium	73.2	0.400	"	"	"	"	"	"	
Cadmium	0.220	0.200	"	"	"	"	"	"	
Copper	5.68	0.400	"	"	"	"	"	"	
Lead	13.2	0.200	"	"	"	"	"	"	
Nickel	2.98	0.400	"	"	"	"	"	"	
Silver	0.0288	0.0200	"	"	"	"	"	"	
Zinc	13.6	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **07/31/24 13:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0034	08/01/24	08/01/24	EPA 7196A	

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

Date Sampled: **07/31/24 13:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	572	0.0500	mg/L dry	1	BHH0031	08/01/24	08/02/24	EPA 6020B	
Magnesium	103	0.0500	"	"	"	"	"	"	
Sodium	843	0.0500	"	"	"	"	"	"	

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 Wellington CO, 80549

Project: Noble - Castor PC (BKG)  
 Project Number: UWREP-A2000-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 08/06/24 09:33

**BKG01 - 5FT**  
**2407403-03 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **07/31/24 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	8.52	0.00100	units	1	BHH0104	08/05/24	08/05/24	Calculation	

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

Date Sampled: **07/31/24 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	75.9		%	1	BHH0011	08/01/24	08/01/24	Calculation	

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

Date Sampled: **07/31/24 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	5.51	0.0100	mmhos/cm	1	BHH0033	08/01/24	08/02/24	EPA 120.1	

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

Date Sampled: **07/31/24 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.87		pH Units	1	BHH0032	08/01/24	08/02/24	EPA 9045D	

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Castor PC (BKG)

Project Number: UWREP-A2000-ABN  
Project Manager: Paul Henchan

**Reported:**  
08/06/24 09:33

**BKG01 - 6FT**  
**2407403-04 (Soil)**

**Summit Scientific**

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

Date Sampled: **07/31/24 13:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHH0010	08/01/24	08/03/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **07/31/24 13:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	11.0	0.200	mg/kg dry	1	BHH0022	08/01/24	08/06/24	EPA 6020B	
Barium	147	0.400	"	"	"	"	"	"	
Cadmium	0.246	0.200	"	"	"	"	"	"	
Copper	5.24	0.400	"	"	"	"	"	"	
Lead	13.7	0.200	"	"	"	"	"	"	
Nickel	3.04	0.400	"	"	"	"	"	"	
Silver	0.0259	0.0200	"	"	"	"	"	"	
Zinc	14.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **07/31/24 13:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0034	08/01/24	08/01/24	EPA 7196A	

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

Date Sampled: **07/31/24 13:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	118	0.0500	mg/L dry	1	BHH0031	08/01/24	08/02/24	EPA 6020B	
Magnesium	22.3	0.0500	"	"	"	"	"	"	
Sodium	427	0.0500	"	"	"	"	"	"	

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Fremont Environmental  
 PO Box 1289  
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Project: Noble - Castor PC (BKG)  
 Project Number: UWREP-A2000-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 08/06/24 09:33

**BKG01 - 6FT**  
**2407403-04 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **07/31/24 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	9.45	0.00100	units	1	BHH0104	08/05/24	08/05/24	Calculation	

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

Date Sampled: **07/31/24 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	76.4		%	1	BHH0011	08/01/24	08/01/24	Calculation	

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

Date Sampled: **07/31/24 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.29	0.0100	mmhos/cm	1	BHH0033	08/01/24	08/02/24	EPA 120.1	

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

Date Sampled: **07/31/24 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.14		pH Units	1	BHH0032	08/01/24	08/02/24	EPA 9045D	

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Wellington CO, 80549

Project: Noble - Castor PC (BKG)

Project Number: UWREP-A2000-ABN  
Project Manager: Paul Henchan

**Reported:**  
08/06/24 09:33

**BKG02 - 0.5FT**  
**2407403-05 (Soil)**

**Summit Scientific**

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

Date Sampled: **07/31/24 13:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHH0010	08/01/24	08/03/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **07/31/24 13:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	4.50	0.179	mg/kg dry	1	BHH0022	08/01/24	08/06/24	EPA 6020B	
Barium	239	0.357	"	"	"	"	"	"	
Cadmium	0.332	0.179	"	"	"	"	"	"	
Copper	5.61	0.357	"	"	"	"	"	"	
Lead	15.5	0.179	"	"	"	"	"	"	
Nickel	3.44	0.357	"	"	"	"	"	"	
Silver	0.0329	0.0179	"	"	"	"	"	"	
Zinc	16.4	0.357	"	"	"	"	"	"	
Selenium	ND	0.232	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **07/31/24 13:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0034	08/01/24	08/01/24	EPA 7196A	

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

Date Sampled: **07/31/24 13:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	55.2	0.0500	mg/L dry	1	BHH0031	08/01/24	08/02/24	EPA 6020B	
Magnesium	6.77	0.0500	"	"	"	"	"	"	
Sodium	10.2	0.0500	"	"	"	"	"	"	

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Project: Noble - Castor PC (BKG)  
Project Number: UWREP-A2000-ABN  
Project Manager: Paul Henchan

**Reported:**  
08/06/24 09:33

**BKG02 - 0.5FT**  
**2407403-05 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **07/31/24 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	<b>0.345</b>	0.00100	units	1	BHH0104	08/05/24	08/05/24	Calculation	

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

Date Sampled: **07/31/24 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	<b>83.6</b>		%	1	BHH0011	08/01/24	08/01/24	Calculation	

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

Date Sampled: **07/31/24 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.340</b>	0.0100	mmhos/cm	1	BHH0033	08/01/24	08/02/24	EPA 120.1	

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

Date Sampled: **07/31/24 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	<b>7.97</b>		pH Units	1	BHH0032	08/01/24	08/02/24	EPA 9045D	

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Project: Noble - Castor PC (BKG)

Project Number: UWREP-A2000-ABN  
Project Manager: Paul Henchan

**Reported:**  
08/06/24 09:33

**BKG02 - 3FT**  
**2407403-06 (Soil)**

**Summit Scientific**

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

Date Sampled: **07/31/24 13:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHH0010	08/01/24	08/03/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **07/31/24 13:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	<b>4.61</b>	0.181		mg/kg dry	1	BHH0022	08/01/24	08/06/24	EPA 6020B	
Barium	<b>237</b>	0.362		"	"	"	"	"	"	
Cadmium	<b>0.333</b>	0.181		"	"	"	"	"	"	
Copper	<b>5.61</b>	0.362		"	"	"	"	"	"	
Lead	<b>15.0</b>	0.181		"	"	"	"	"	"	
Nickel	<b>3.68</b>	0.362		"	"	"	"	"	"	
Silver	<b>0.0320</b>	0.0181		"	"	"	"	"	"	
Zinc	<b>16.6</b>	0.362		"	"	"	"	"	"	
Selenium	ND	0.236		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **07/31/24 13:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHH0034	08/01/24	08/01/24	EPA 7196A	

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

Date Sampled: **07/31/24 13:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	<b>91.2</b>	0.0500		mg/L dry	1	BHH0031	08/01/24	08/02/24	EPA 6020B	
Magnesium	<b>32.1</b>	0.0500		"	"	"	"	"	"	
Sodium	<b>32.4</b>	0.0500		"	"	"	"	"	"	

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Project: Noble - Castor PC (BKG)  
 Project Number: UWREP-A2000-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 08/06/24 09:33

**BKG02 - 3FT**  
**2407403-06 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **07/31/24 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.743	0.00100	units	1	BHH0104	08/05/24	08/05/24	Calculation	

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

Date Sampled: **07/31/24 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.5		%	1	BHH0011	08/01/24	08/01/24	Calculation	

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

Date Sampled: **07/31/24 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.226	0.0100	mmhos/cm	1	BHH0033	08/01/24	08/02/24	EPA 120.1	

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

Date Sampled: **07/31/24 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.51		pH Units	1	BHH0032	08/01/24	08/02/24	EPA 9045D	

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Project: Noble - Castor PC (BKG)

Project Number: UWREP-A2000-ABN  
Project Manager: Paul Henchan

**Reported:**  
08/06/24 09:33

**BKG02 - 5FT**  
**2407403-07 (Soil)**

**Summit Scientific**

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

Date Sampled: **07/31/24 14:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHH0010	08/01/24	08/03/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **07/31/24 14:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	4.55	0.200		mg/kg dry	1	BHH0022	08/01/24	08/06/24	EPA 6020B	
Barium	204	0.400		"	"	"	"	"	"	
Cadmium	0.288	0.200		"	"	"	"	"	"	
Copper	5.41	0.400		"	"	"	"	"	"	
Lead	14.6	0.200		"	"	"	"	"	"	
Nickel	3.24	0.400		"	"	"	"	"	"	
Silver	0.0292	0.0200		"	"	"	"	"	"	
Zinc	15.0	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **07/31/24 14:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHH0034	08/01/24	08/01/24	EPA 7196A	

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

Date Sampled: **07/31/24 14:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	58.3	0.0500		mg/L dry	1	BHH0031	08/01/24	08/02/24	EPA 6020B	
Magnesium	7.50	0.0500		"	"	"	"	"	"	
Sodium	61.3	0.0500		"	"	"	"	"	"	

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Wellington CO, 80549

Project: Noble - Castor PC (BKG)  
Project Number: UWREP-A2000-ABN  
Project Manager: Paul Henchan

**Reported:**  
08/06/24 09:33

**BKG02 - 5FT**  
**2407403-07 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **07/31/24 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.01	0.00100	units	1	BHH0104	08/05/24	08/05/24	Calculation	

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

Date Sampled: **07/31/24 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.5		%	1	BHH0011	08/01/24	08/01/24	Calculation	

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

Date Sampled: **07/31/24 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.583	0.0100	mmhos/cm	1	BHH0033	08/01/24	08/02/24	EPA 120.1	

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

Date Sampled: **07/31/24 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.18		pH Units	1	BHH0032	08/01/24	08/02/24	EPA 9045D	

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Wellington CO, 80549

Project: Noble - Castor PC (BKG)

Project Number: UWREP-A2000-ABN  
Project Manager: Paul Henchan

**Reported:**  
08/06/24 09:33

**BKG02 - 6FT**  
**2407403-08 (Soil)**

**Summit Scientific**

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

Date Sampled: **07/31/24 14:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHH0010	08/01/24	08/03/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **07/31/24 14:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	4.59	0.181		mg/kg dry	1	BHH0022	08/01/24	08/06/24	EPA 6020B	
Barium	294	0.362		"	"	"	"	"	"	
Cadmium	0.270	0.181		"	"	"	"	"	"	
Copper	5.40	0.362		"	"	"	"	"	"	
Lead	14.3	0.181		"	"	"	"	"	"	
Nickel	3.00	0.362		"	"	"	"	"	"	
Silver	0.0301	0.0181		"	"	"	"	"	"	
Zinc	14.4	0.362		"	"	"	"	"	"	
Selenium	ND	0.236		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **07/31/24 14:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHH0034	08/01/24	08/01/24	EPA 7196A	

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

Date Sampled: **07/31/24 14:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	77.3	0.0500		mg/L dry	1	BHH0031	08/01/24	08/02/24	EPA 6020B	
Magnesium	9.38	0.0500		"	"	"	"	"	"	
Sodium	76.8	0.0500		"	"	"	"	"	"	

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Project: Noble - Castor PC (BKG)  
Project Number: UWREP-A2000-ABN  
Project Manager: Paul Henchan

**Reported:**  
08/06/24 09:33

**BKG02 - 6FT**  
**2407403-08 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **07/31/24 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.20	0.00100	units	1	BHH0104	08/05/24	08/05/24	Calculation	

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

Date Sampled: **07/31/24 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	79.4		%	1	BHH0011	08/01/24	08/01/24	Calculation	

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

Date Sampled: **07/31/24 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.690	0.0100	mmhos/cm	1	BHH0033	08/01/24	08/02/24	EPA 120.1	

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

Date Sampled: **07/31/24 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.10		pH Units	1	BHH0032	08/01/24	08/02/24	EPA 9045D	

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Project: Noble - Castor PC (BKG)

Project Number: UWREP-A2000-ABN  
Project Manager: Paul Henchan

**Reported:**  
08/06/24 09:33

**BKG03 - 0.5FT**  
**2407403-09 (Soil)**

**Summit Scientific**

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

Date Sampled: **07/31/24 14:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHH0010	08/01/24	08/03/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **07/31/24 14:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	5.09	0.200	mg/kg dry	1	BHH0022	08/01/24	08/06/24	EPA 6020B	
Barium	287	0.400	"	"	"	"	"	"	
Cadmium	0.343	0.200	"	"	"	"	"	"	
Copper	5.54	0.400	"	"	"	"	"	"	
Lead	14.4	0.200	"	"	"	"	"	"	
Nickel	3.43	0.400	"	"	"	"	"	"	
Silver	0.0317	0.0200	"	"	"	"	"	"	
Zinc	15.9	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **07/31/24 14:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0034	08/01/24	08/01/24	EPA 7196A	

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

Date Sampled: **07/31/24 14:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	62.0	0.0500	mg/L dry	1	BHH0031	08/01/24	08/02/24	EPA 6020B	
Magnesium	7.24	0.0500	"	"	"	"	"	"	
Sodium	77.2	0.0500	"	"	"	"	"	"	

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Project: Noble - Castor PC (BKG)  
 Project Number: UWREP-A2000-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 08/06/24 09:33

**BKG03 - 0.5FT**  
**2407403-09 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **07/31/24 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.47	0.00100	units	1	BHH0104	08/05/24	08/05/24	Calculation	

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

Date Sampled: **07/31/24 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.5		%	1	BHH0011	08/01/24	08/01/24	Calculation	

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

Date Sampled: **07/31/24 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.484	0.0100	mmhos/cm	1	BHH0033	08/01/24	08/02/24	EPA 120.1	

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

Date Sampled: **07/31/24 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.20		pH Units	1	BHH0032	08/01/24	08/02/24	EPA 9045D	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Castor PC (BKG)

Project Number: UWREP-A2000-ABN  
Project Manager: Paul Henchan

**Reported:**  
08/06/24 09:33

**BKG03 - 3FT**  
**2407403-10 (Soil)**

**Summit Scientific**

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

Date Sampled: **07/31/24 14:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHH0010	08/01/24	08/03/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **07/31/24 14:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	5.78	0.200		mg/kg dry	1	BHH0022	08/01/24	08/06/24	EPA 6020B	
Barium	414	0.400		"	"	"	"	"	"	
Cadmium	0.302	0.200		"	"	"	"	"	"	
Copper	5.55	0.400		"	"	"	"	"	"	
Lead	17.7	0.200		"	"	"	"	"	"	
Nickel	3.25	0.400		"	"	"	"	"	"	
Silver	0.0276	0.0200		"	"	"	"	"	"	
Zinc	15.3	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **07/31/24 14:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHH0034	08/01/24	08/01/24	EPA 7196A	

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

Date Sampled: **07/31/24 14:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	205	0.0500		mg/L dry	1	BHH0031	08/01/24	08/02/24	EPA 6020B	
Magnesium	23.0	0.0500		"	"	"	"	"	"	
Sodium	242	0.0500		"	"	"	"	"	"	

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Project: Noble - Castor PC (BKG)  
Project Number: UWREP-A2000-ABN  
Project Manager: Paul Henchan

**Reported:**  
08/06/24 09:33

**BKG03 - 3FT**  
**2407403-10 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **07/31/24 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.28	0.00100	units	1	BHH0104	08/05/24	08/05/24	Calculation	

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

Date Sampled: **07/31/24 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.6		%	1	BHH0011	08/01/24	08/01/24	Calculation	

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

Date Sampled: **07/31/24 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.13	0.0100	mmhos/cm	1	BHH0033	08/01/24	08/02/24	EPA 120.1	

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

Date Sampled: **07/31/24 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.08		pH Units	1	BHH0032	08/01/24	08/02/24	EPA 9045D	

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Project: Noble - Castor PC (BKG)

Project Number: UWREP-A2000-ABN  
Project Manager: Paul Henchan

**Reported:**  
08/06/24 09:33

**BKG03 - 6FT**  
**2407403-11 (Soil)**

**Summit Scientific**

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

Date Sampled: **07/31/24 14:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHH0010	08/01/24	08/03/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **07/31/24 14:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	4.09	0.200		mg/kg dry	1	BHH0022	08/01/24	08/06/24	EPA 6020B	
Barium	255	0.400		"	"	"	"	"	"	
Cadmium	0.269	0.200		"	"	"	"	"	"	
Copper	5.43	0.400		"	"	"	"	"	"	
Lead	13.9	0.200		"	"	"	"	"	"	
Nickel	3.15	0.400		"	"	"	"	"	"	
Silver	0.0281	0.0200		"	"	"	"	"	"	
Zinc	14.9	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **07/31/24 14:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHH0034	08/01/24	08/01/24	EPA 7196A	

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

Date Sampled: **07/31/24 14:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	126	0.0500		mg/L dry	1	BHH0031	08/01/24	08/02/24	EPA 6020B	
Magnesium	17.0	0.0500		"	"	"	"	"	"	
Sodium	218	0.0500		"	"	"	"	"	"	

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Project: Noble - Castor PC (BKG)  
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 Project Manager: Paul Henchan

**Reported:**  
 08/06/24 09:33

**BKG03 - 6FT**  
**2407403-11 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **07/31/24 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.84	0.00100	units	1	BHH0104	08/05/24	08/05/24	Calculation	

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

Date Sampled: **07/31/24 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.9		%	1	BHH0011	08/01/24	08/01/24	Calculation	

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

Date Sampled: **07/31/24 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.41	0.0100	mmhos/cm	1	BHH0033	08/01/24	08/02/24	EPA 120.1	

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

Date Sampled: **07/31/24 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.09		pH Units	1	BHH0032	08/01/24	08/02/24	EPA 9045D	

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Project: Noble - Castor PC (BKG)

Project Number: UWREP-A2000-ABN  
Project Manager: Paul Henchan

**Reported:**  
08/06/24 09:33

**BKG03 - 5FT**  
**2407403-12 (Soil)**

**Summit Scientific**

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

Date Sampled: **07/31/24 14:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHH0010	08/01/24	08/03/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **07/31/24 14:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	4.14	0.200		mg/kg dry	1	BHH0022	08/01/24	08/06/24	EPA 6020B	
Barium	381	0.400		"	"	"	"	"	"	
Cadmium	0.269	0.200		"	"	"	"	"	"	
Copper	5.99	0.400		"	"	"	"	"	"	
Lead	14.4	0.200		"	"	"	"	"	"	
Nickel	3.46	0.400		"	"	"	"	"	"	
Silver	0.0302	0.0200		"	"	"	"	"	"	
Zinc	16.4	0.400		"	"	"	"	"	"	
Selenium	0.266	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **07/31/24 14:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHH0034	08/01/24	08/01/24	EPA 7196A	

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

Date Sampled: **07/31/24 14:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	109	0.0500		mg/L dry	1	BHH0031	08/01/24	08/02/24	EPA 6020B	
Magnesium	43.2	0.0500		"	"	"	"	"	"	
Sodium	271	0.0500		"	"	"	"	"	"	

**Calculated Analysis**

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 Project Manager: Paul Henchan

**Reported:**  
 08/06/24 09:33

**BKG03 - 5FT**  
**2407403-12 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **07/31/24 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.56	0.00100	units	1	BHH0104	08/05/24	08/05/24	Calculation	

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

Date Sampled: **07/31/24 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.8		%	1	BHH0011	08/01/24	08/01/24	Calculation	

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

Date Sampled: **07/31/24 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.05	0.0100	mmhos/cm	1	BHH0033	08/01/24	08/02/24	EPA 120.1	

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

Date Sampled: **07/31/24 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.96		pH Units	1	BHH0032	08/01/24	08/02/24	EPA 9045D	

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Project: Noble - Castor PC (BKG)

Project Number: UWREP-A2000-ABN  
Project Manager: Paul Henchan

**Reported:**  
08/06/24 09:33

**BKG04 - 0.5FT**  
**2407403-13 (Soil)**

**Summit Scientific**

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

Date Sampled: **07/31/24 14:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHH0010	08/01/24	08/03/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **07/31/24 14:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	7.18	0.180	mg/kg dry	1	BHH0022	08/01/24	08/06/24	EPA 6020B	
Barium	284	0.360	"	"	"	"	"	"	
Cadmium	0.292	0.180	"	"	"	"	"	"	
Copper	4.21	0.360	"	"	"	"	"	"	
Lead	14.0	0.180	"	"	"	"	"	"	
Nickel	2.58	0.360	"	"	"	"	"	"	
Silver	0.0261	0.0180	"	"	"	"	"	"	
Zinc	13.0	0.360	"	"	"	"	"	"	
Selenium	ND	0.234	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **07/31/24 14:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0034	08/01/24	08/01/24	EPA 7196A	

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

Date Sampled: **07/31/24 14:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	232	0.0500	mg/L dry	1	BHH0031	08/01/24	08/02/24	EPA 6020B	
Magnesium	184	0.0500	"	"	"	"	"	"	
Sodium	209	0.0500	"	"	"	"	"	"	

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 Project Manager: Paul Henchan

**Reported:**  
 08/06/24 09:33

**BKG04 - 0.5FT**  
**2407403-13 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **07/31/24 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.49	0.00100	units	1	BHH0104	08/05/24	08/05/24	Calculation	

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

Date Sampled: **07/31/24 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.6		%	1	BHH0011	08/01/24	08/01/24	Calculation	

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

Date Sampled: **07/31/24 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.346	0.0100	mmhos/cm	1	BHH0033	08/01/24	08/02/24	EPA 120.1	

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

Date Sampled: **07/31/24 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.97		pH Units	1	BHH0032	08/01/24	08/02/24	EPA 9045D	

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Project Manager: Paul Henchan

**Reported:**  
08/06/24 09:33

**BKG04 - 3FT**  
**2407403-14 (Soil)**

**Summit Scientific**

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

Date Sampled: **07/31/24 14:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHH0010	08/01/24	08/03/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **07/31/24 14:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	12.2	0.200		mg/kg dry	1	BHH0022	08/01/24	08/06/24	EPA 6020B	
Barium	434	0.400		"	"	"	"	"	"	
Cadmium	0.231	0.200		"	"	"	"	"	"	
Copper	4.72	0.400		"	"	"	"	"	"	
Lead	13.5	0.200		"	"	"	"	"	"	
Nickel	2.64	0.400		"	"	"	"	"	"	
Silver	0.0279	0.0200		"	"	"	"	"	"	
Zinc	13.4	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **07/31/24 14:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHH0034	08/01/24	08/01/24	EPA 7196A	

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

Date Sampled: **07/31/24 14:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	259	0.0500		mg/L dry	1	BHH0031	08/01/24	08/02/24	EPA 6020B	
Magnesium	419	0.0500		"	"	"	"	"	"	
Sodium	978	0.0500		"	"	"	"	"	"	

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 Project Manager: Paul Henchan

**Reported:**  
 08/06/24 09:33

**BKG04 - 3FT**  
**2407403-14 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **07/31/24 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	8.74	0.00100	units	1	BHH0104	08/05/24	08/05/24	Calculation	

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

Date Sampled: **07/31/24 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.7		%	1	BHH0011	08/01/24	08/01/24	Calculation	

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

Date Sampled: **07/31/24 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.35	0.0100	mmhos/cm	1	BHH0033	08/01/24	08/02/24	EPA 120.1	

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

Date Sampled: **07/31/24 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.68		pH Units	1	BHH0032	08/01/24	08/02/24	EPA 9045D	

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Project: Noble - Castor PC (BKG)

Project Number: UWREP-A2000-ABN  
Project Manager: Paul Henchan

**Reported:**  
08/06/24 09:33

**BKG04 - 5FT**  
**2407403-15 (Soil)**

**Summit Scientific**

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

Date Sampled: **07/31/24 14:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHH0010	08/01/24	08/03/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **07/31/24 14:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	12.0	0.200		mg/kg dry	1	BHH0022	08/01/24	08/06/24	EPA 6020B	
Barium	220	0.400		"	"	"	"	"	"	
Cadmium	0.257	0.200		"	"	"	"	"	"	
Copper	4.39	0.400		"	"	"	"	"	"	
Lead	13.6	0.200		"	"	"	"	"	"	
Nickel	2.69	0.400		"	"	"	"	"	"	
Silver	0.0233	0.0200		"	"	"	"	"	"	
Zinc	13.2	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **07/31/24 14:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHH0034	08/01/24	08/01/24	EPA 7196A	

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

Date Sampled: **07/31/24 14:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	404	0.0500		mg/L dry	1	BHH0031	08/01/24	08/02/24	EPA 6020B	
Magnesium	80.3	0.0500		"	"	"	"	"	"	
Sodium	1090	0.0500		"	"	"	"	"	"	

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Project: Noble - Castor PC (BKG)  
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Project Manager: Paul Henchan

**Reported:**  
08/06/24 09:33

**BKG04 - 5FT**  
**2407403-15 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **07/31/24 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	13.0	0.00100	units	1	BHH0104	08/05/24	08/05/24	Calculation	

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

Date Sampled: **07/31/24 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.7		%	1	BHH0011	08/01/24	08/01/24	Calculation	

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

Date Sampled: **07/31/24 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	5.50	0.0100	mmhos/cm	1	BHH0033	08/01/24	08/02/24	EPA 120.1	

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

Date Sampled: **07/31/24 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.98		pH Units	1	BHH0032	08/01/24	08/02/24	EPA 9045D	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Castor PC (BKG)

Project Number: UWREP-A2000-ABN  
Project Manager: Paul Henchan

**Reported:**  
08/06/24 09:33

**BKG04 - 6FT**  
**2407403-16 (Soil)**

**Summit Scientific**

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

Date Sampled: **07/31/24 13:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHH0010	08/01/24	08/03/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **07/31/24 13:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	7.45	0.200		mg/kg dry	1	BHH0022	08/01/24	08/06/24	EPA 6020B	
Barium	217	0.400		"	"	"	"	"	"	
Cadmium	0.246	0.200		"	"	"	"	"	"	
Copper	4.75	0.400		"	"	"	"	"	"	
Lead	13.8	0.200		"	"	"	"	"	"	
Nickel	2.89	0.400		"	"	"	"	"	"	
Silver	0.0211	0.0200		"	"	"	"	"	"	
Zinc	13.8	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **07/31/24 13:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHH0034	08/01/24	08/01/24	EPA 7196A	

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

Date Sampled: **07/31/24 13:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	112	0.0500		mg/L dry	1	BHH0031	08/01/24	08/02/24	EPA 6020B	
Magnesium	24.3	0.0500		"	"	"	"	"	"	
Sodium	750	0.0500		"	"	"	"	"	"	

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Project: Noble - Castor PC (BKG)  
 Project Number: UWREP-A2000-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 08/06/24 09:33

**BKG04 - 6FT**  
**2407403-16 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **07/31/24 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	16.7	0.00100	units	1	BHH0104	08/05/24	08/05/24	Calculation	

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

Date Sampled: **07/31/24 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	79.6		%	1	BHH0011	08/01/24	08/01/24	Calculation	

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

Date Sampled: **07/31/24 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.47	0.0100	mmhos/cm	1	BHH0033	08/01/24	08/02/24	EPA 120.1	

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

Date Sampled: **07/31/24 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.28		pH Units	1	BHH0032	08/01/24	08/02/24	EPA 9045D	

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Wellington CO, 80549

Project: Noble - Castor PC (BKG)

Project Number: UWREP-A2000-ABN  
Project Manager: Paul Henchan

**Reported:**  
08/06/24 09:33

**BKG05 - 0.5FT**  
**2407403-17 (Soil)**

**Summit Scientific**

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

Date Sampled: **07/31/24 13:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHH0010	08/01/24	08/03/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **07/31/24 13:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	<b>10.4</b>	0.200		mg/kg dry	1	BHH0022	08/01/24	08/06/24	EPA 6020B	
Barium	<b>303</b>	0.400		"	"	"	"	"	"	
Cadmium	<b>0.389</b>	0.200		"	"	"	"	"	"	
Copper	<b>4.75</b>	0.400		"	"	"	"	"	"	
Lead	<b>14.9</b>	0.200		"	"	"	"	"	"	
Nickel	<b>3.09</b>	0.400		"	"	"	"	"	"	
Silver	<b>0.0255</b>	0.0200		"	"	"	"	"	"	
Zinc	<b>15.1</b>	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **07/31/24 13:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHH0034	08/01/24	08/01/24	EPA 7196A	

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

Date Sampled: **07/31/24 13:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	<b>206</b>	0.0500		mg/L dry	1	BHH0031	08/01/24	08/02/24	EPA 6020B	
Magnesium	<b>101</b>	0.0500		"	"	"	"	"	"	
Sodium	<b>207</b>	0.0500		"	"	"	"	"	"	

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Project: Noble - Castor PC (BKG)  
 Project Number: UWREP-A2000-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 08/06/24 09:33

**BKG05 - 0.5FT**  
**2407403-17 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **07/31/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.95	0.00100	units	1	BHH0104	08/05/24	08/05/24	Calculation	

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

Date Sampled: **07/31/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	71.1		%	1	BHH0011	08/01/24	08/01/24	Calculation	

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

Date Sampled: **07/31/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.380	0.0100	mmhos/cm	1	BHH0033	08/01/24	08/02/24	EPA 120.1	

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

Date Sampled: **07/31/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.21		pH Units	1	BHH0032	08/01/24	08/02/24	EPA 9045D	

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Project: Noble - Castor PC (BKG)

Project Number: UWREP-A2000-ABN  
Project Manager: Paul Henchan

**Reported:**  
08/06/24 09:33

**BKG05 - 3FT**  
**2407403-18 (Soil)**

**Summit Scientific**

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

Date Sampled: **07/31/24 13:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHH0010	08/01/24	08/03/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **07/31/24 13:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	8.73	0.200		mg/kg dry	1	BHH0022	08/01/24	08/06/24	EPA 6020B	
Barium	258	0.400		"	"	"	"	"	"	
Cadmium	0.291	0.200		"	"	"	"	"	"	
Copper	4.51	0.400		"	"	"	"	"	"	
Lead	14.0	0.200		"	"	"	"	"	"	
Nickel	2.93	0.400		"	"	"	"	"	"	
Silver	0.0278	0.0200		"	"	"	"	"	"	
Zinc	14.2	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **07/31/24 13:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHH0034	08/01/24	08/01/24	EPA 7196A	

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

Date Sampled: **07/31/24 13:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	531	0.0500		mg/L dry	1	BHH0031	08/01/24	08/02/24	EPA 6020B	
Magnesium	104	0.0500		"	"	"	"	"	"	
Sodium	1470	0.0500		"	"	"	"	"	"	

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Project: Noble - Castor PC (BKG)  
Project Number: UWREP-A2000-ABN  
Project Manager: Paul Henchan

**Reported:**  
08/06/24 09:33

**BKG05 - 3FT**  
**2407403-18 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **07/31/24 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	15.3	0.00100	units	1	BHH0104	08/05/24	08/05/24	Calculation	

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

Date Sampled: **07/31/24 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.4		%	1	BHH0011	08/01/24	08/01/24	Calculation	

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

Date Sampled: **07/31/24 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	7.38	0.0100	mmhos/cm	1	BHH0033	08/01/24	08/02/24	EPA 120.1	

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

Date Sampled: **07/31/24 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.88		pH Units	1	BHH0032	08/01/24	08/02/24	EPA 9045D	

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Project: Noble - Castor PC (BKG)

Project Number: UWREP-A2000-ABN  
Project Manager: Paul Henchan

**Reported:**  
08/06/24 09:33

**BKG05 - 5FT**  
**2407403-19 (Soil)**

**Summit Scientific**

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

Date Sampled: **07/31/24 13:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHH0010	08/01/24	08/03/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **07/31/24 13:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	5.15	0.200	mg/kg dry	1	BHH0022	08/01/24	08/06/24	EPA 6020B	
Barium	166	0.400	"	"	"	"	"	"	
Cadmium	0.296	0.200	"	"	"	"	"	"	
Copper	4.78	0.400	"	"	"	"	"	"	
Lead	11.8	0.200	"	"	"	"	"	"	
Nickel	3.91	0.400	"	"	"	"	"	"	
Silver	0.0217	0.0200	"	"	"	"	"	"	
Zinc	17.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **07/31/24 13:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0034	08/01/24	08/01/24	EPA 7196A	

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

Date Sampled: **07/31/24 13:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	112	0.0500	mg/L dry	1	BHH0031	08/01/24	08/02/24	EPA 6020B	
Magnesium	85.1	0.0500	"	"	"	"	"	"	
Sodium	655	0.0500	"	"	"	"	"	"	

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 Project Manager: Paul Henchan

**Reported:**  
 08/06/24 09:33

**BKG05 - 5FT**  
**2407403-19 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **07/31/24 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	11.4	0.00100	units	1	BHH0104	08/05/24	08/05/24	Calculation	

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

Date Sampled: **07/31/24 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.8		%	1	BHH0011	08/01/24	08/01/24	Calculation	

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

Date Sampled: **07/31/24 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.97	0.0100	mmhos/cm	1	BHH0033	08/01/24	08/02/24	EPA 120.1	

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

Date Sampled: **07/31/24 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.11		pH Units	1	BHH0032	08/01/24	08/02/24	EPA 9045D	

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Project: Noble - Castor PC (BKG)

Project Number: UWREP-A2000-ABN  
Project Manager: Paul Henchan

**Reported:**  
08/06/24 09:33

**BKG05 - 6FT**  
**2407403-20 (Soil)**

**Summit Scientific**

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

Date Sampled: **07/31/24 13:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHH0010	08/01/24	08/03/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **07/31/24 13:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	<b>5.12</b>	0.200	mg/kg dry	1	BHH0023	08/01/24	08/06/24	EPA 6020B	
Barium	<b>209</b>	0.400	"	"	"	"	"	"	
Cadmium	<b>0.308</b>	0.200	"	"	"	"	"	"	
Copper	<b>4.60</b>	0.400	"	"	"	"	"	"	
Lead	<b>14.1</b>	0.200	"	"	"	"	"	"	
Nickel	<b>3.77</b>	0.400	"	"	"	"	"	"	
Silver	<b>0.0227</b>	0.0200	"	"	"	"	"	"	
Zinc	<b>17.1</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **07/31/24 13:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0034	08/01/24	08/01/24	EPA 7196A	

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

Date Sampled: **07/31/24 13:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	<b>133</b>	0.0500	mg/L dry	1	BHH0031	08/01/24	08/02/24	EPA 6020B	
Magnesium	<b>368</b>	0.0500	"	"	"	"	"	"	
Sodium	<b>841</b>	0.0500	"	"	"	"	"	"	

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Project: Noble - Castor PC (BKG)  
 Project Number: UWREP-A2000-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 08/06/24 09:33

**BKG05 - 6FT**  
**2407403-20 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **07/31/24 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	8.51	0.00100	units	1	BHH0104	08/05/24	08/05/24	Calculation	

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

Date Sampled: **07/31/24 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	78.8		%	1	BHH0011	08/01/24	08/01/24	Calculation	

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

Date Sampled: **07/31/24 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.36	0.0100	mmhos/cm	1	BHH0033	08/01/24	08/02/24	EPA 120.1	

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

Date Sampled: **07/31/24 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.07		pH Units	1	BHH0032	08/01/24	08/02/24	EPA 9045D	

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 Wellington CO, 80549

Project: Noble - Castor PC (BKG)

Project Number: UWREP-A2000-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 08/06/24 09:33

**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 BHH0010 - EPA 3050B**

**Blank (BHH0010-BLK1)**

Prepared: 08/01/24 Analyzed: 08/03/24

Boron ND 2.00 mg/L

**LCS (BHH0010-BS1)**

Prepared: 08/01/24 Analyzed: 08/03/24

Boron 4.75 2.00 mg/L 5.00 95.0 80-120

**Duplicate (BHH0010-DUP1)**

**Source: 2407403-01**

Prepared: 08/01/24 Analyzed: 08/03/24

Boron 0.482 2.00 mg/L 0.372 25.7 20 QR-01

**Matrix Spike (BHH0010-MS1)**

**Source: 2407403-01**

Prepared: 08/01/24 Analyzed: 08/03/24

Boron 5.10 2.00 mg/L 5.00 0.372 94.5 75-125

**Matrix Spike Dup (BHH0010-MSD1)**

**Source: 2407403-01**

Prepared: 08/01/24 Analyzed: 08/03/24

Boron 5.72 2.00 mg/L 5.00 0.372 107 75-125 11.5 25

Summit Scientific

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Project: Noble - Castor PC (BKG)

Project Number: UWREP-A2000-ABN  
Project Manager: Paul Henchan

**Reported:**  
08/06/24 09:33

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BHH0022 - EPA 3050B**

**Blank (BHH0022-BLK1)**

Prepared: 08/01/24 Analyzed: 08/06/24

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 (BHH0022-BS1)**

Prepared: 08/01/24 Analyzed: 08/06/24

Arsenic	41.7	0.200	mg/kg wet	38.2		109	80-120			
Barium	39.2	0.400	"	38.2		103	80-120			
Cadmium	2.00	0.200	"	1.91		105	80-120			
Copper	39.3	0.400	"	38.2		103	80-120			
Lead	19.7	0.200	"	19.1		103	80-120			
Nickel	40.1	0.400	"	38.2		105	80-120			
Silver	1.99	0.0200	"	1.91		104	80-120			
Zinc	39.2	0.400	"	38.2		103	80-120			
Selenium	4.15	0.260	"	3.82		109	80-120			

**Duplicate (BHH0022-DUP1)**

Source: 2407403-01

Prepared: 08/01/24 Analyzed: 08/06/24

Arsenic	4.83	0.200	mg/kg dry		5.09		5.33	20		
Barium	253	0.400	"		271		6.88	20		
Cadmium	0.276	0.200	"		0.292		5.50	20		
Copper	5.25	0.400	"		5.40		2.67	20		
Lead	14.8	0.200	"		19.4		26.9	20		QR-02
Nickel	3.20	0.400	"		3.30		3.23	20		
Silver	0.0302	0.0200	"		0.0274		9.80	20		
Zinc	14.8	0.400	"		14.9		0.985	20		
Selenium	ND	0.260	"		ND			20		

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Castor PC (BKG)

Project Number: UWREP-A2000-ABN  
Project Manager: Paul Henchan

**Reported:**  
08/06/24 09:33

**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 BHH0022 - EPA 3050B**

**Matrix Spike (BHH0022-MS1)**

Source: 2407403-01

Prepared: 08/01/24 Analyzed: 08/06/24

Arsenic	55.7	0.200	mg/kg dry	48.3	5.09	105	75-125			
Barium	295	0.400	"	48.3	271	50.1	75-125			QM-05
Cadmium	2.84	0.200	"	2.41	0.292	106	75-125			
Copper	33.2	0.400	"	48.3	5.40	57.6	75-125			QM-05
Lead	38.1	0.200	"	24.1	19.4	77.6	75-125			
Nickel	32.2	0.400	"	48.3	3.30	59.8	75-125			QM-05
Silver	2.53	0.0200	"	2.41	0.0274	104	75-125			
Zinc	44.9	0.400	"	48.3	14.9	62.1	75-125			QM-05
Selenium	4.06	0.260	"	4.83	ND	84.1	75-125			

**Matrix Spike Dup (BHH0022-MSD1)**

Source: 2407403-01

Prepared: 08/01/24 Analyzed: 08/06/24

Arsenic	55.4	0.200	mg/kg dry	48.3	5.09	104	75-125	0.645	25	
Barium	292	0.400	"	48.3	271	43.0	75-125	1.16	25	QM-05
Cadmium	2.84	0.200	"	2.41	0.292	106	75-125	0.0850	25	
Copper	32.8	0.400	"	48.3	5.40	56.7	75-125	1.39	25	QM-05
Lead	37.8	0.200	"	24.1	19.4	76.0	75-125	1.04	25	
Nickel	31.7	0.400	"	48.3	3.30	58.9	75-125	1.44	25	QM-05
Silver	2.56	0.0200	"	2.41	0.0274	105	75-125	1.16	25	
Zinc	44.1	0.400	"	48.3	14.9	60.5	75-125	1.66	25	QM-05
Selenium	3.93	0.260	"	4.83	ND	81.4	75-125	3.21	25	

**Batch BHH0023 - EPA 3050B**

**Blank (BHH0023-BLK1)**

Prepared: 08/01/24 Analyzed: 08/05/24

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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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Castor PC (BKG)

Project Number: UWREP-A2000-ABN  
Project Manager: Paul Henchan

**Reported:**  
08/06/24 09:33

**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 BHH0023 - EPA 3050B**

**LCS (BHH0023-BS1)**

Prepared: 08/01/24 Analyzed: 08/05/24

Arsenic	42.4	0.200	mg/kg wet	39.7		107	80-120			
Barium	41.0	0.400	"	39.7		103	80-120			
Cadmium	2.04	0.200	"	1.98		103	80-120			
Copper	40.5	0.400	"	39.7		102	80-120			
Lead	20.4	0.200	"	19.8		103	80-120			
Nickel	41.0	0.400	"	39.7		103	80-120			
Silver	2.05	0.0200	"	1.98		103	80-120			
Zinc	40.5	0.400	"	39.7		102	80-120			
Selenium	4.34	0.260	"	3.97		109	80-120			

**Duplicate (BHH0023-DUP1)**

Source: 2407233-09

Prepared: 08/01/24 Analyzed: 08/05/24

Arsenic	1.39	0.200	mg/kg dry		1.28		8.50	20		
Barium	35.9	0.400	"		35.1		2.08	20		
Cadmium	0.0373	0.200	"		0.0353		5.56	20		
Copper	1.77	0.400	"		1.65		7.22	20		
Lead	3.31	0.200	"		3.24		2.12	20		
Nickel	2.37	0.400	"		2.22		6.71	20		
Silver	0.0164	0.0200	"		0.0168		2.48	20		
Zinc	9.26	0.400	"		9.01		2.72	20		
Selenium	ND	0.260	"		ND			20		

**Matrix Spike (BHH0023-MS1)**

Source: 2407233-09

Prepared: 08/01/24 Analyzed: 08/05/24

Arsenic	43.3	0.200	mg/kg dry	41.0	1.28	103	75-125			
Barium	74.4	0.400	"	41.0	35.1	95.7	75-125			
Cadmium	2.18	0.200	"	2.05	0.0353	105	75-125			
Copper	35.2	0.400	"	41.0	1.65	81.7	75-125			
Lead	24.3	0.200	"	20.5	3.24	103	75-125			
Nickel	36.4	0.400	"	41.0	2.22	83.3	75-125			
Silver	2.10	0.0200	"	2.05	0.0168	102	75-125			
Zinc	43.4	0.400	"	41.0	9.01	83.8	75-125			
Selenium	3.95	0.260	"	4.10	ND	96.3	75-125			

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Castor PC (BKG)

Project Number: UWREP-A2000-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 08/06/24 09:33

**Total Metals by EPA 6020B - Quality Control**

**Summit Scientific**

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

**Batch BHH0023 - EPA 3050B**

Matrix Spike Dup (BHH0023-MSD1)	Source: 2407233-09			Prepared: 08/01/24 Analyzed: 08/06/24							
Arsenic	43.7	0.200	mg/kg dry	41.0	1.28	103	75-125	0.907	25		
Barium	76.7	0.400	"	41.0	35.1	101	75-125	3.03	25		
Cadmium	2.19	0.200	"	2.05	0.0353	105	75-125	0.395	25		
Copper	34.4	0.400	"	41.0	1.65	79.9	75-125	2.06	25		
Lead	24.5	0.200	"	20.5	3.24	103	75-125	0.719	25		
Nickel	35.6	0.400	"	41.0	2.22	81.2	75-125	2.37	25		
Silver	2.11	0.0200	"	2.05	0.0168	102	75-125	0.545	25		
Zinc	42.7	0.400	"	41.0	9.01	82.0	75-125	1.69	25		
Selenium	4.04	0.260	"	4.10	ND	98.5	75-125	2.19	25		

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Castor PC (BKG)  
Project Number: UWREP-A2000-ABN  
Project Manager: Paul Henchan

**Reported:**  
08/06/24 09:33

**Hexavalent Chromium by EPA Method 7196 - Quality Control**  
**Summit Scientific**

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

**Batch BHH0034 - 3060A Mod**

**Blank (BHH0034-BLK1)**

Prepared & Analyzed: 08/01/24

Chromium, Hexavalent      ND      0.30    mg/kg wet

**LCS (BHH0034-BS1)**

Prepared & Analyzed: 08/01/24

Chromium, Hexavalent      25.3      0.30    mg/kg wet      25.0      101      80-120

**Duplicate (BHH0034-DUP1)**

**Source: 2407403-01**

Prepared & Analyzed: 08/01/24

Chromium, Hexavalent      ND      0.30    mg/kg dry      ND      ND      20

**Matrix Spike (BHH0034-MS1)**

**Source: 2407403-01**

Prepared & Analyzed: 08/01/24

Chromium, Hexavalent      30.4      0.30    mg/kg dry      30.9      ND      98.2      75-125

**Matrix Spike Dup (BHH0034-MSD1)**

**Source: 2407403-01**

Prepared & Analyzed: 08/01/24

Chromium, Hexavalent      30.6      0.30    mg/kg dry      30.9      ND      99.0      75-125      0.811      20

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Castor PC (BKG)

Project Number: UWREP-A2000-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 08/06/24 09:33

**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 BHH0031 - General Preparation**

**Blank (BHH0031-BLK1)**

Prepared: 08/01/24 Analyzed: 08/02/24

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

**LCS (BHH0031-BS1)**

Prepared: 08/01/24 Analyzed: 08/02/24

Calcium	5.91	0.0500	mg/L wet	5.00	118	70-130				
Magnesium	5.54	0.0500	"	5.00	111	70-130				
Sodium	5.60	0.0500	"	5.00	112	70-130				

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Castor PC (BKG)

Project Number: UWREP-A2000-ABN

Project Manager: Paul Henchan

**Reported:**  
 08/06/24 09:33

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

**Summit Scientific**

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

**Batch BHH0011 - General Preparation**

**Duplicate (BHH0011-DUP1)**

**Source: 2407403-01**

Prepared & Analyzed: 08/01/24

% Solids	81.0		%		80.9			0.189	20	
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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Castor PC (BKG)

Project Number: UWREP-A2000-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 08/06/24 09:33

**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 BHH0033 - General Preparation**

**Blank (BHH0033-BLK1)**

Prepared: 08/01/24 Analyzed: 08/02/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BHH0033-BS1)**

Prepared: 08/01/24 Analyzed: 08/02/24

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

**Duplicate (BHH0033-DUP1)**

Source: 2407403-01

Prepared: 08/01/24 Analyzed: 08/02/24

Specific Conductance (EC) 0.370 0.0100 mmhos/cm 0.381 2.96 20

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Castor PC (BKG)

Project Number: UWREP-A2000-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 08/06/24 09:33

**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 BHH0032 - General Preparation**

**LCS (BHH0032-BS1)**

Prepared: 08/01/24 Analyzed: 08/02/24

pH	9.17	pH Units	9.18	99.9	95-105
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**Duplicate (BHH0032-DUP1)**

Source: 2407403-01

Prepared: 08/01/24 Analyzed: 08/02/24

pH	8.28	pH Units	8.28	0.00	20
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Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Castor PC (BKG)

Project Number: UWREP-A2000-ABN  
Project Manager: Paul Henchan

**Reported:**  
08/06/24 09:33

### Notes and Definitions

- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- QR-01 Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
- 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