

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

January 13, 2025

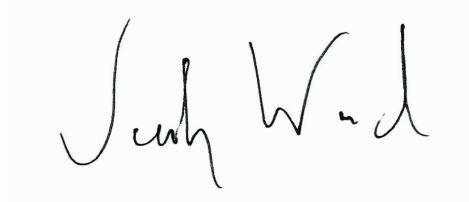
Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549

RE: Noble - Knaub 64N65W 9SWSW Facility (BKG)

Work Order #2411481

Enclosed are the results of analyses for samples received by Summit Scientific on 11/25/24 18:20. 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 large initial "J" and a distinct "W".

Jacob Wood For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Knaub 64N65W 9SWSW Facility (BKG)

Project Number: UWRWE-A3469-ABN C024-021

Project Manager: Paul Henchan

Reported:
01/13/25 11:38

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BKG01 - 3Ft	2411481-01	Soil	11/25/24 00:00	11/25/24 18:20
BKG01 - 8Ft	2411481-02	Soil	11/25/24 00:00	11/25/24 18:20
BKG02 - 3Ft	2411481-03	Soil	11/25/24 00:00	11/25/24 18:20
BKG02 - 8Ft	2411481-04	Soil	11/25/24 00:00	11/25/24 18:20
BKG03 - 3Ft	2411481-05	Soil	11/25/24 00:00	11/25/24 18:20
BKG03 - 8Ft	2411481-06	Soil	11/25/24 00:00	11/25/24 18:20
BKG04 - 3Ft	2411481-07	Soil	11/25/24 00:00	11/25/24 18:20
BKG04 - 8Ft	2411481-08	Soil	11/25/24 00:00	11/25/24 18:20
BKG05 - 3Ft	2411481-09	Soil	11/25/24 00:00	11/25/24 18:20
BKG05 - 8Ft	2411481-10	Soil	11/25/24 00:00	11/25/24 18:20

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

Lab ID 2411481 Page 1 of 1

Client: Fremont Environmental		Send Data To: Project Manager: Paul Henehan		Send Invoice To: Company: <u>Noble</u>	
Address:		E-Mail: Fremont Distribution List, <u>chevron Dist list</u>		Project Name/Location:	
City/State/Zip:		Project Name: <u>Knobs - 64N165W95W5W Facility (BKG)</u>		AFE#:	
Phone: 303-261-6246		Project Number: <u>CO24-021</u>		PO/Billing Codes: <u>UWRWE-A3469-ABN</u>	
Sampler Name: Stanley Gilbert				Contact: <u>Dan Peterson</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	BKG01 - 3Ft	11/25/24		1			X			X							X	X				
2	BKG01 - 8Ft																					
3	BKG02 - 3Ft																					
4	BKG02 - 8Ft																					
5	BKG03 - 3Ft																					
6	BKG03 - 8Ft																					
7	BKG04 - 3Ft																					
8	BKG04 - 8Ft																					
9	BKG05 - 3Ft																					
10	BKG05 - 8Ft																					
11																						
12																						
13																						
14																						
15																						

Relinquished by: <u>[Signature]</u>	Date/Time: <u>11/25/24 18:20</u>	Received by: <u>[Signature]</u>	Date/Time: <u>11/25/24 18:20</u>	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.	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Standard	X Field Turb.	
Temperature Upon Receipt: <u>4.0</u>	Corrected Temperature	IR gun #: <u>2</u>	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2411481

Client: Freemont/Noble Client Project ID: KNOWB-64N65W 9SWSW Facility

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other Airbill #: (BKG)

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

Temp (°C) 4.4 Thermometer # 2

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>on ice</u>
If custody seals are present, are they intact? ⁽¹⁾	<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 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"/>	<u>AS</u>
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input type="checkbox"/>	<input checked="" 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.

Control Form #: SRC-001

AS
Custodian Printed Name
11/25/24
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Knaub 64N65W 9SWW Facility (BKG)

Project Number: UWRWE-A3469-ABN C024-021
Project Manager: Paul Henchan

Reported:
01/13/25 11:38

BKG01 - 3Ft
2411481-01 (Soil)

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Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BIA0300	01/08/25	01/10/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	2.76	0.200		mg/kg dry	1	BIA0208	01/07/25	01/11/25	EPA 6020B	
Barium	80.7	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
Copper	4.71	0.400		"	"	"	"	"	"	
Lead	6.99	0.200		"	"	"	"	"	"	
Nickel	5.77	0.400		"	"	"	"	"	"	
Silver	0.0447	0.0200		"	"	"	"	"	"	
Zinc	21.2	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHL0658	12/15/24	12/15/24	EPA 7196A	

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

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	9.49	0.0500		mg/L dry	1	BHL0945	12/19/24	12/28/24	EPA 6020B	
Magnesium	35.9	0.0500		"	"	"	"	"	"	
Sodium	7.21	0.0500		"	"	"	"	"	"	

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Project Number: UWRWE-A3469-ABN C024-021
Project Manager: Paul Henchan

Reported:
01/13/25 11:38

BKG01 - 3Ft
2411481-01 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.240	0.00100	units	1	BHL1268	12/28/24	12/28/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.9		%	1	BHL0618	12/13/24	12/15/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.10	0.0100	mmhos/cm	1	BHL0964	12/19/24	12/27/24	EPA 120.1	

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

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.36		pH Units	1	BHL0956	12/19/24	12/27/24	EPA 9045D	

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Project: Noble - Knaub 64N65W 9SWW Facility (BKG)

Project Number: UWRWE-A3469-ABN C024-021
Project Manager: Paul Henchan

Reported:
01/13/25 11:38

BKG01 - 8Ft
2411481-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIA0300	01/08/25	01/10/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.23	0.200	mg/kg dry	1	BIA0208	01/07/25	01/11/25	EPA 6020B	
Barium	36.7	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.73	0.400	"	"	"	"	"	"	
Lead	3.26	0.200	"	"	"	"	"	"	
Nickel	2.85	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	12.1	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0658	12/15/24	12/15/24	EPA 7196A	

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

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	9.49	0.0500	mg/L dry	1	BHL0945	12/19/24	12/28/24	EPA 6020B	
Magnesium	12.7	0.0500	"	"	"	"	"	"	
Sodium	14.9	0.0500	"	"	"	"	"	"	

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Project Number: UWRWE-A3469-ABN C024-021
Project Manager: Paul Henchan

Reported:
01/13/25 11:38

BKG01 - 8Ft
2411481-02 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.744	0.00100	units	1	BHL1268	12/28/24	12/28/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.7		%	1	BHL0618	12/13/24	12/15/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.725	0.0100	mmhos/cm	1	BHL0964	12/19/24	12/27/24	EPA 120.1	

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

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.83		pH Units	1	BHL0956	12/19/24	12/27/24	EPA 9045D	

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Project: Noble - Knaub 64N65W 9SWW Facility (BKG)

Project Number: UWRWE-A3469-ABN C024-021
Project Manager: Paul Henchan

Reported:
01/13/25 11:38

BKG02 - 3Ft
2411481-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIA0300	01/08/25	01/10/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.32	0.200	mg/kg dry	1	BIA0208	01/07/25	01/11/25	EPA 6020B	
Barium	46.1	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.53	0.400	"	"	"	"	"	"	
Lead	4.44	0.200	"	"	"	"	"	"	
Nickel	3.53	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	13.8	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0658	12/15/24	12/15/24	EPA 7196A	

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

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	12.7	0.0500	mg/L dry	1	BHL0945	12/19/24	12/28/24	EPA 6020B	
Magnesium	10.6	0.0500	"	"	"	"	"	"	
Sodium	7.21	0.0500	"	"	"	"	"	"	

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Project Number: UWRWE-A3469-ABN C024-021
Project Manager: Paul Henchan

Reported:
01/13/25 11:38

BKG02 - 3Ft
2411481-03 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.361	0.00100	units	1	BHL1268	12/28/24	12/28/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.6		%	1	BHL0618	12/13/24	12/15/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.389	0.0100	mmhos/cm	1	BHL0964	12/19/24	12/27/24	EPA 120.1	

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

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.05		pH Units	1	BHL0956	12/19/24	12/27/24	EPA 9045D	

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Wellington CO, 80549

Project: Noble - Knaub 64N65W 9SWW Facility (BKG)

Project Number: UWRWE-A3469-ABN C024-021
Project Manager: Paul Henchan

Reported:
01/13/25 11:38

BKG02 - 8Ft
2411481-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIA0300	01/08/25	01/10/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.27	0.200	mg/kg dry	1	BIA0208	01/07/25	01/11/25	EPA 6020B	
Barium	54.5	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.06	0.400	"	"	"	"	"	"	
Lead	3.94	0.200	"	"	"	"	"	"	
Nickel	4.48	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	14.1	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0658	12/15/24	12/15/24	EPA 7196A	

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

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	13.9	0.0500	mg/L dry	1	BHL0945	12/19/24	12/28/24	EPA 6020B	
Magnesium	22.4	0.0500	"	"	"	"	"	"	
Sodium	1.36	0.0500	"	"	"	"	"	"	

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 Project Manager: Paul Henchan

Reported:
 01/13/25 11:38

BKG02 - 8Ft
2411481-04 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0525	0.00100	units	1	BHL1268	12/28/24	12/28/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.2		%	1	BHL0618	12/13/24	12/15/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.270	0.0100	mmhos/cm	1	BHL0964	12/19/24	12/27/24	EPA 120.1	

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

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.27		pH Units	1	BHL0956	12/19/24	12/27/24	EPA 9045D	

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Project Number: UWRWE-A3469-ABN C024-021
Project Manager: Paul Henchan

Reported:
01/13/25 11:38

BKG03 - 3Ft
2411481-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIA0300	01/08/25	01/10/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.35	0.200	mg/kg dry	1	BIA0208	01/07/25	01/11/25	EPA 6020B	
Barium	44.9	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.93	0.400	"	"	"	"	"	"	
Lead	4.41	0.200	"	"	"	"	"	"	
Nickel	3.75	0.400	"	"	"	"	"	"	
Silver	0.0289	0.0200	"	"	"	"	"	"	
Zinc	14.2	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0658	12/15/24	12/15/24	EPA 7196A	

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

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	11.9	0.0500	mg/L dry	1	BHL0945	12/19/24	12/28/24	EPA 6020B	
Magnesium	19.7	0.0500	"	"	"	"	"	"	
Sodium	1.18	0.0500	"	"	"	"	"	"	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Knaub 64N65W 9SWSW Facility (BKG)
Project Number: UWRWE-A3469-ABN C024-021
Project Manager: Paul Henchan

Reported:
01/13/25 11:38

BKG03 - 3Ft
2411481-05 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0488	0.00100	units	1	BHL1268	12/28/24	12/28/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.5		%	1	BHL0618	12/13/24	12/15/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.134	0.0100	mmhos/cm	1	BHL0964	12/19/24	12/27/24	EPA 120.1	

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

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.06		pH Units	1	BHL0956	12/19/24	12/27/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Knaub 64N65W 9SWW Facility (BKG)

Project Number: UWRWE-A3469-ABN C024-021
Project Manager: Paul Henchan

Reported:
01/13/25 11:38

BKG03 - 8Ft
2411481-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIA0300	01/08/25	01/10/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.987	0.200	mg/kg dry	1	BIA0208	01/07/25	01/11/25	EPA 6020B	
Barium	34.3	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.48	0.400	"	"	"	"	"	"	
Lead	3.54	0.200	"	"	"	"	"	"	
Nickel	2.34	0.400	"	"	"	"	"	"	
Silver	0.0269	0.0200	"	"	"	"	"	"	
Zinc	13.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0658	12/15/24	12/15/24	EPA 7196A	

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

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	17.4	0.0500	mg/L dry	1	BHL0945	12/19/24	12/28/24	EPA 6020B	
Magnesium	3.58	0.0500	"	"	"	"	"	"	
Sodium	36.2	0.0500	"	"	"	"	"	"	

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Project: Noble - Knaub 64N65W 9SWSW Facility (BKG)
Project Number: UWRWE-A3469-ABN C024-021
Project Manager: Paul Henchan

Reported:
01/13/25 11:38

BKG03 - 8Ft
2411481-06 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.06	0.00100	units	1	BHL1268	12/28/24	12/28/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.0		%	1	BHL0618	12/13/24	12/15/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.353	0.0100	mmhos/cm	1	BHL0964	12/19/24	12/27/24	EPA 120.1	

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

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.48		pH Units	1	BHL0956	12/19/24	12/27/24	EPA 9045D	

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Project: Noble - Knaub 64N65W 9SWW Facility (BKG)

Project Number: UWRWE-A3469-ABN C024-021
Project Manager: Paul Henchan

Reported:
01/13/25 11:38

BKG04 - 3Ft
2411481-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIA0300	01/08/25	01/10/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.68	0.200	mg/kg dry	1	BIA0208	01/07/25	01/11/25	EPA 6020B	
Barium	40.9	0.400	"	"	"	"	"	"	
Cadmium	0.208	0.200	"	"	"	"	"	"	
Copper	5.03	0.400	"	"	"	"	"	"	
Lead	8.34	0.200	"	"	"	"	"	"	
Nickel	2.81	0.400	"	"	"	"	"	"	
Silver	0.0525	0.0200	"	"	"	"	"	"	
Zinc	18.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0658	12/15/24	12/15/24	EPA 7196A	

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

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	19.5	0.0500	mg/L dry	1	BHL0945	12/19/24	12/28/24	EPA 6020B	
Magnesium	24.3	0.0500	"	"	"	"	"	"	
Sodium	1.03	0.0500	"	"	"	"	"	"	

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PO Box 1289
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Project: Noble - Knaub 64N65W 9SWSW Facility (BKG)
Project Number: UWRWE-A3469-ABN C024-021
Project Manager: Paul Henchan

Reported:
01/13/25 11:38

BKG04 - 3Ft
2411481-07 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0368	0.00100	units	1	BHL1268	12/28/24	12/28/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.1		%	1	BHL0618	12/13/24	12/15/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.241	0.0100	mmhos/cm	1	BHL0964	12/19/24	12/27/24	EPA 120.1	

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

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.06		pH Units	1	BHL0956	12/19/24	12/27/24	EPA 9045D	

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Fremont Environmental
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Wellington CO, 80549

Project: Noble - Knaub 64N65W 9SWW Facility (BKG)

Project Number: UWRWE-A3469-ABN C024-021
Project Manager: Paul Henchan

Reported:
01/13/25 11:38

BKG04 - 8Ft
2411481-08 (Soil)

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Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIA0300	01/08/25	01/10/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.45	0.200	mg/kg dry	1	BIA0208	01/07/25	01/11/25	EPA 6020B	
Barium	46.1	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.72	0.400	"	"	"	"	"	"	
Lead	4.12	0.200	"	"	"	"	"	"	
Nickel	2.91	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	13.0	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0658	12/15/24	12/15/24	EPA 7196A	

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

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	19.2	0.0500	mg/L dry	1	BHL0945	12/19/24	12/28/24	EPA 6020B	
Magnesium	5.23	0.0500	"	"	"	"	"	"	
Sodium	72.6	0.0500	"	"	"	"	"	"	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Knaub 64N65W 9SWSW Facility (BKG)
Project Number: UWRWE-A3469-ABN C024-021
Project Manager: Paul Henchan

Reported:
01/13/25 11:38

BKG04 - 8Ft
2411481-08 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.79	0.00100	units	1	BHL1268	12/28/24	12/28/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.6		%	1	BHL0618	12/13/24	12/15/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.738	0.0100	mmhos/cm	1	BHL0964	12/19/24	12/27/24	EPA 120.1	

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

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.16		pH Units	1	BHL0956	12/19/24	12/27/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Knaub 64N65W 9SWW Facility (BKG)

Project Number: UWRWE-A3469-ABN C024-021
Project Manager: Paul Henchan

Reported:
01/13/25 11:38

BKG05 - 3Ft
2411481-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIA0300	01/08/25	01/10/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.28	0.200	mg/kg dry	1	BIA0208	01/07/25	01/11/25	EPA 6020B	
Barium	48.1	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.98	0.400	"	"	"	"	"	"	
Lead	4.19	0.200	"	"	"	"	"	"	
Nickel	3.41	0.400	"	"	"	"	"	"	
Silver	0.0205	0.0200	"	"	"	"	"	"	
Zinc	14.8	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0658	12/15/24	12/15/24	EPA 7196A	

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

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	11.4	0.0500	mg/L dry	1	BHL0945	12/19/24	12/28/24	EPA 6020B	
Magnesium	81.9	0.0500	"	"	"	"	"	"	
Sodium	2.30	0.0500	"	"	"	"	"	"	

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Project: Noble - Knaub 64N65W 9SWSW Facility (BKG)

Project Number: UWRWE-A3469-ABN C024-021
 Project Manager: Paul Henchan

Reported:
 01/13/25 11:38

BKG05 - 3Ft
2411481-09 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0523	0.00100	units	1	BHL1268	12/28/24	12/28/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.5		%	1	BHL0618	12/13/24	12/15/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.807	0.0100	mmhos/cm	1	BHL0964	12/19/24	12/27/24	EPA 120.1	

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

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.41		pH Units	1	BHL0956	12/19/24	12/27/24	EPA 9045D	

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Project: Noble - Knaub 64N65W 9SWW Facility (BKG)

Project Number: UWRWE-A3469-ABN C024-021
Project Manager: Paul Henchan

Reported:
01/13/25 11:38

BKG05 - 8Ft
2411481-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIA0300	01/08/25	01/10/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.16	0.200	mg/kg dry	1	BIA0208	01/07/25	01/11/25	EPA 6020B	
Barium	45.7	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.68	0.400	"	"	"	"	"	"	
Lead	3.37	0.200	"	"	"	"	"	"	
Nickel	3.02	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	12.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0658	12/15/24	12/15/24	EPA 7196A	

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

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	16.8	0.0500	mg/L dry	1	BHL0945	12/19/24	12/28/24	EPA 6020B	
Magnesium	28.0	0.0500	"	"	"	"	"	"	
Sodium	6.46	0.0500	"	"	"	"	"	"	

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Project: Noble - Knaub 64N65W 9SWSW Facility (BKG)
Project Number: UWRWE-A3469-ABN C024-021
Project Manager: Paul Henchan

Reported:
01/13/25 11:38

BKG05 - 8Ft
2411481-10 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.224	0.00100	units	1	BHL1268	12/28/24	12/28/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.7		%	1	BHL0618	12/13/24	12/15/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.404	0.0100	mmhos/cm	1	BHL0964	12/19/24	12/27/24	EPA 120.1	

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

Date Sampled: **11/25/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.40		pH Units	1	BHL0956	12/19/24	12/27/24	EPA 9045D	

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 Wellington CO, 80549

Project: Noble - Knaub 64N65W 9SWW Facility (BKG)

Project Number: UWRWE-A3469-ABN C024-021
 Project Manager: Paul Henchan

Reported:
 01/13/25 11:38

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

Summit Scientific

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

Batch BIA0300 - EPA 3050B

Blank (BIA0300-BLK1)

Prepared: 01/08/25 Analyzed: 01/09/25

Boron ND 2.00 mg/L

LCS (BIA0300-BS1)

Prepared: 01/08/25 Analyzed: 01/09/25

Boron 4.97 2.00 mg/L 5.00 99.4 80-120

Duplicate (BIA0300-DUP1)

Source: 2411480-07

Prepared: 01/08/25 Analyzed: 01/09/25

Boron 0.213 2.00 mg/L 0.254 17.5 20

Matrix Spike (BIA0300-MS1)

Source: 2411480-07

Prepared: 01/08/25 Analyzed: 01/09/25

Boron 5.16 2.00 mg/L 5.00 0.254 98.1 75-125

Matrix Spike Dup (BIA0300-MSD1)

Source: 2411480-07

Prepared: 01/08/25 Analyzed: 01/09/25

Boron 5.37 2.00 mg/L 5.00 0.254 102 75-125 3.91 25

Summit Scientific

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Project Number: UWRWE-A3469-ABN C024-021
Project Manager: Paul Henchan

Reported:
01/13/25 11:38

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BIA0208 - EPA 3050B

Blank (BIA0208-BLK1)

Prepared: 01/07/25 Analyzed: 01/11/25

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 (BIA0208-BS1)

Prepared: 01/07/25 Analyzed: 01/11/25

Arsenic	37.8	0.200	mg/kg wet	41.7	90.8	80-120
Barium	40.7	0.400	"	41.7	97.6	80-120
Cadmium	2.07	0.200	"	2.08	99.2	80-120
Copper	43.5	0.400	"	41.7	104	80-120
Lead	20.2	0.200	"	20.8	97.1	80-120
Nickel	42.8	0.400	"	41.7	103	80-120
Silver	2.12	0.0200	"	2.08	102	80-120
Zinc	44.4	0.400	"	41.7	106	80-120
Selenium	4.27	0.260	"	4.17	103	80-120

Duplicate (BIA0208-DUP1)

Source: 2411480-13

Prepared: 01/07/25 Analyzed: 01/11/25

Arsenic	2.36	0.200	mg/kg dry	2.24	4.94	20
Barium	90.6	0.400	"	87.9	2.98	20
Cadmium	0.153	0.200	"	0.147	3.61	20
Copper	2.90	0.400	"	2.73	6.07	20
Lead	5.04	0.200	"	4.34	14.9	20
Nickel	3.08	0.400	"	3.01	2.16	20
Silver	0.0808	0.0200	"	0.0739	8.87	20
Zinc	19.4	0.400	"	17.2	12.4	20
Selenium	ND	0.260	"	ND		20

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 Project Manager: Paul Henchan

Reported:
 01/13/25 11:38

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 BIA0208 - EPA 3050B

Matrix Spike (BIA0208-MS1)

Source: 2411480-13

Prepared: 01/07/25 Analyzed: 01/11/25

Arsenic	41.3	0.200	mg/kg dry	43.6	2.24	89.6	75-125			
Barium	130	0.400	"	43.6	87.9	96.1	75-125			
Cadmium	2.28	0.200	"	2.18	0.147	97.6	75-125			
Copper	38.5	0.400	"	43.6	2.73	82.0	75-125			
Lead	25.0	0.200	"	21.8	4.34	94.5	75-125			
Nickel	38.9	0.400	"	43.6	3.01	82.2	75-125			
Silver	2.13	0.0200	"	2.18	0.0739	94.3	75-125			
Zinc	54.3	0.400	"	43.6	17.2	85.0	75-125			
Selenium	4.32	0.260	"	4.36	ND	99.0	75-125			

Matrix Spike Dup (BIA0208-MSD1)

Source: 2411480-13

Prepared: 01/07/25 Analyzed: 01/11/25

Arsenic	40.4	0.200	mg/kg dry	42.3	2.24	90.3	75-125	2.21	25
Barium	130	0.400	"	42.3	87.9	99.2	75-125	0.0144	25
Cadmium	2.24	0.200	"	2.11	0.147	98.8	75-125	1.74	25
Copper	37.2	0.400	"	42.3	2.73	81.4	75-125	3.57	25
Lead	24.1	0.200	"	21.1	4.34	93.6	75-125	3.32	25
Nickel	37.7	0.400	"	42.3	3.01	81.9	75-125	3.22	25
Silver	2.07	0.0200	"	2.11	0.0739	94.5	75-125	2.80	25
Zinc	52.7	0.400	"	42.3	17.2	84.0	75-125	2.94	25
Selenium	4.21	0.260	"	4.23	ND	99.4	75-125	2.69	25

Summit Scientific

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 Project Manager: Paul Henchan

Reported:
 01/13/25 11:38

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 BHL0658 - 3060A Mod

Blank (BHL0658-BLK1)

Prepared & Analyzed: 12/15/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHL0658-BS1)

Prepared & Analyzed: 12/15/24

Chromium, Hexavalent 27.0 0.30 mg/kg wet 25.0 108 80-120

Duplicate (BHL0658-DUP1)

Source: 2411481-01

Prepared & Analyzed: 12/15/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHL0658-MS1)

Source: 2411481-01

Prepared & Analyzed: 12/15/24

Chromium, Hexavalent 31.9 0.30 mg/kg dry 28.4 ND 112 75-125

Matrix Spike Dup (BHL0658-MSD1)

Source: 2411481-01

Prepared & Analyzed: 12/15/24

Chromium, Hexavalent 28.6 0.30 mg/kg dry 28.4 ND 100 75-125 11.1 20

Summit Scientific

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Project Number: UWRWE-A3469-ABN C024-021
 Project Manager: Paul Henchan

Reported:
 01/13/25 11:38

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 BHL0945 - General Preparation

Blank (BHL0945-BLK1)

Prepared: 12/19/24 Analyzed: 12/27/24

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

LCS (BHL0945-BS1)

Prepared: 12/19/24 Analyzed: 12/27/24

Calcium	6.18	0.0500	mg/L wet	5.00	124	70-130				
Magnesium	5.67	0.0500	"	5.00	113	70-130				
Sodium	5.40	0.0500	"	5.00	108	70-130				

Summit Scientific

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 Project Manager: Paul Henchan

Reported:
 01/13/25 11:38

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 BHL0618 - General Preparation

Duplicate (BHL0618-DUP1)	Source: 2411481-01		Prepared: 12/13/24 Analyzed: 12/15/24	
% Solids	87.4	%	87.9	0.571 20

Summit Scientific



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Project Number: UWRWE-A3469-ABN C024-021
 Project Manager: Paul Henchan

Reported:
 01/13/25 11:38

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 BHL0964 - General Preparation

Blank (BHL0964-BLK1)

Prepared: 12/19/24 Analyzed: 12/27/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHL0964-BS1)

Prepared: 12/19/24 Analyzed: 12/27/24

Specific Conductance (EC) 0.154 0.0100 mmhos/cm 0.150 103 95-105

Duplicate (BHL0964-DUP1)

Source: 2411479-01

Prepared: 12/19/24 Analyzed: 12/27/24

Specific Conductance (EC) 0.962 0.0100 mmhos/cm 0.968 0.632 20

Summit Scientific

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Project Number: UWRWE-A3469-ABN C024-021
 Project Manager: Paul Henchan

Reported:
 01/13/25 11:38

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

Summit Scientific

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

Batch BHL0956 - General Preparation

LCS (BHL0956-BS1)

Prepared: 12/19/24 Analyzed: 12/27/24

pH 9.13 pH Units 9.18 99.5 95-105

Duplicate (BHL0956-DUP1)

Source: 2411479-01

Prepared: 12/19/24 Analyzed: 12/27/24

pH 8.21 pH Units 8.21 0.00 20

Summit Scientific

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Project: Noble - Knaub 64N65W 9SWSW Facility (BKG)

Project Number: UWRWE-A3469-ABN C024-021
Project Manager: Paul Henchan

Reported:
01/13/25 11:38

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