

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

April 22, 2024

Paul Henchan

Fremont Environmental

PO Box 1289

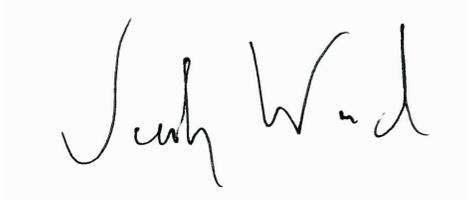
Wellington, CO 80549

RE: Hanson BC 0-64N67W 1NESE (Backgrounds)

Work Order #2402287

Enclosed are the results of analyses for samples received by Summit Scientific on 02/15/24 13:25. 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 Ben Shrewsbury
Laboratory Manager



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Hanson BC 0-64N67W 1NESE (Backgrounds)
Project Number: UWRWE-A2137-ABN
Project Manager: Paul Henchan

Reported:
04/22/24 09:27

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BKG01@5.0'	2402287-01	Soil	02/15/24 00:00	02/15/24 13:25
BKG01@4.0'	2402287-02	Soil	02/15/24 00:00	02/15/24 13:25
BKG02@5.0'	2402287-03	Soil	02/15/24 00:00	02/15/24 13:25
BKG02@4.0'	2402287-04	Soil	02/15/24 00:00	02/15/24 13:25
BKG03@5.0'	2402287-05	Soil	02/15/24 00:00	02/15/24 13:25
BKG03@4.0'	2402287-06	Soil	02/15/24 00:00	02/15/24 13:25
BKG04@5.0'	2402287-07	Soil	02/15/24 00:00	02/15/24 13:25
BKG04@4.0'	2402287-08	Soil	02/15/24 00:00	02/15/24 13:25
BKG05@5.0'	2402287-09	Soil	02/15/24 00:00	02/15/24 13:25
BKG05@4.0'	2402287-10	Soil	02/15/24 00:00	02/15/24 13:25
BKG06@5.0'	2402287-11	Soil	02/14/24 00:00	02/15/24 13:25
BKG07@5.0'	2402287-12	Soil	02/14/24 00:00	02/15/24 13:25
BKG08@5.0'	2402287-13	Soil	02/14/24 00:00	02/15/24 13:25
BKG09@5.0'	2402287-14	Soil	02/14/24 00:00	02/15/24 13:25
BKG10@5.0'	2402287-15	Soil	02/14/24 00:00	02/15/24 13:25

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

Lab ID	Page 1 of 1
2402287	

Client: Fremont Env	Project Manager: Paul Henchen	Company:
Address:	E-Mail: Paulh@fremontenv.com	Project Name/Location:
City/State/Zip:	Jeff@fremontenv.com Ethemb@fremontenv.com	AFE#:
Phone:	Project Name: Hanson BC 0-64N67W 1NESE (Backcountry)	PO/Billing Codes: VWRWE-AR137-ARN
Sampler Name: JG	Project Number:	Contact:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Air-Canister #	Other	Analysis Requested				Special Instructions
					HCl	HNO3	None	Other	Water	Soil			EC(pH), SAR, Boron	Metals (915)			
1	BK601@5.0'	2/15/24		1			X			X		X	X				
2	BK601@4.0'																
3	BK602@5.0'																
4	BK602@4.0'																
5	BK603@5.0'																
6	BK603@4.0'																
7	BK604@5.0'																
8	BK604@4.0'																
9	BK605@5.0'																
10	BK605@4.0'	2/15/24															
11	BK606@5.0'	2/14/24															
12	BK607@5.0'																
13	BK608@5.0'																
14	BK609@5.0'																
15	BK610@5.0'																

Relinquished by: <i>Jr</i>	Date/Time: 2/15/24 13:25	Received by: <i>J. H. Wald</i>	Date/Time: 2/15/24 13:25	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.	
				Standard	X Field Turb.	
Temperature Upon Receipt: 8.2	Corrected Temperature:	IR gun #: 2	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2402287

Client: Fremont Client Project ID: Hanson BLD-64N67W INESE (backgrounds)

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

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

Temp (°C) Thermometer #

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

John Wil
Custodian Printed Name

2/15/24 13:25
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Hanson BC 0-64N67W 1NESE (Backgrounds)

Project Number: UWRWE-A2137-ABN
Project Manager: Paul Henchan

Reported:
04/22/24 09:27

BKG01@5.0'
2402287-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHB0920	02/29/24	03/01/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	5.81	0.181	mg/kg dry	1	BHD0325	04/10/24	04/12/24	EPA 6020B	
Barium	78.2	0.362	"	"	"	"	"	"	
Cadmium	0.193	0.181	"	"	"	"	"	"	
Copper	6.53	0.362	"	"	"	"	"	"	
Lead	7.65	0.181	"	"	"	"	"	"	
Nickel	9.61	0.362	"	"	"	"	"	"	
Silver	0.0325	0.0181	"	"	"	"	"	"	
Zinc	22.6	0.362	"	"	"	"	"	"	
Selenium	ND	0.236	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

I-04

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0615	04/18/24	04/18/24	EPA 7196A	

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

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	7.49	0.0500	mg/L dry	1	BHB0673	02/21/24	02/29/24	EPA 6020B	
Magnesium	2.24	0.0500	"	"	"	"	"	"	
Sodium	4.46	0.0500	"	"	"	"	"	"	

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Project: Hanson BC 0-64N67W INESE (Backgrounds)

Project Number: UWRWE-A2137-ABN
Project Manager: Paul Henchan

Reported:
04/22/24 09:27

BKG01@5.0'
2402287-01 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.367	0.00100	units	1	BHC0013	03/01/24	03/01/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.2		%	1	BHB0854	02/27/24	02/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.85	0.0100	mmhos/cm	1	BHB0732	02/22/24	02/25/24	EPA 120.1	

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

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.93		pH Units	1	BHB0730	02/22/24	02/25/24	EPA 9045D	

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Wellington CO, 80549

Project: Hanson BC 0-64N67W 1NESE (Backgrounds)

Project Number: UWRWE-A2137-ABN
Project Manager: Paul Henchan

Reported:
04/22/24 09:27

BKG01@4.0'
2402287-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHB0920	02/29/24	03/01/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	6.49	0.200	mg/kg dry	1	BHD0325	04/10/24	04/12/24	EPA 6020B	
Barium	97.3	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	6.56	0.400	"	"	"	"	"	"	
Lead	8.36	0.200	"	"	"	"	"	"	
Nickel	9.69	0.400	"	"	"	"	"	"	
Silver	0.0394	0.0200	"	"	"	"	"	"	
Zinc	23.9	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

I-04

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0615	04/18/24	04/18/24	EPA 7196A	

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

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	4.84	0.0500	mg/L dry	1	BHB0673	02/21/24	02/29/24	EPA 6020B	
Magnesium	1.96	0.0500	"	"	"	"	"	"	
Sodium	7.16	0.0500	"	"	"	"	"	"	

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Project: Hanson BC 0-64N67W INESE (Backgrounds)

Project Number: UWRWE-A2137-ABN
Project Manager: Paul Henchan

Reported:
04/22/24 09:27

BKG01@4.0'
2402287-02 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.694	0.00100	units	1	BHC0013	03/01/24	03/01/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.1		%	1	BHB0854	02/27/24	02/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.66	0.0100	mmhos/cm	1	BHB0732	02/22/24	02/25/24	EPA 120.1	

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

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.61		pH Units	1	BHB0730	02/22/24	02/25/24	EPA 9045D	

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Project: Hanson BC 0-64N67W INESE (Backgrounds)

Project Number: UWRWE-A2137-ABN
Project Manager: Paul Henchan

Reported:
04/22/24 09:27

BKG02@5.0'
2402287-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHB0920	02/29/24	03/01/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	5.65	0.200	mg/kg dry	1	BHD0325	04/10/24	04/12/24	EPA 6020B	
Barium	92.2	0.400	"	"	"	"	"	"	
Cadmium	0.244	0.200	"	"	"	"	"	"	
Copper	9.30	0.400	"	"	"	"	"	"	
Lead	8.08	0.200	"	"	"	"	"	"	
Nickel	12.8	0.400	"	"	"	"	"	"	
Silver	0.0382	0.0200	"	"	"	"	"	"	
Zinc	26.2	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

I-04

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0615	04/18/24	04/18/24	EPA 7196A	

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

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	9.80	0.0500	mg/L dry	1	BHB0673	02/21/24	02/29/24	EPA 6020B	
Magnesium	4.00	0.0500	"	"	"	"	"	"	
Sodium	7.02	0.0500	"	"	"	"	"	"	

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Project: Hanson BC 0-64N67W INESE (Backgrounds)
Project Number: UWRWE-A2137-ABN
Project Manager: Paul Henchan

Reported:
04/22/24 09:27

BKG02@5.0'
2402287-03 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.477	0.00100	units	1	BHC0013	03/01/24	03/01/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.0		%	1	BHB0854	02/27/24	02/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.68	0.0100	mmhos/cm	1	BHB0732	02/22/24	02/25/24	EPA 120.1	

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

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.83		pH Units	1	BHB0730	02/22/24	02/25/24	EPA 9045D	

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Project: Hanson BC 0-64N67W 1NESE (Backgrounds)

Project Number: UWRWE-A2137-ABN
Project Manager: Paul Henchan

Reported:
04/22/24 09:27

BKG02@4.0'
2402287-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHB0920	02/29/24	03/01/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	6.20	0.200	mg/kg dry	1	BHD0325	04/10/24	04/12/24	EPA 6020B	
Barium	98.4	0.400	"	"	"	"	"	"	
Cadmium	0.212	0.200	"	"	"	"	"	"	
Copper	7.79	0.400	"	"	"	"	"	"	
Lead	8.12	0.200	"	"	"	"	"	"	
Nickel	10.9	0.400	"	"	"	"	"	"	
Silver	0.0427	0.0200	"	"	"	"	"	"	
Zinc	25.2	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

I-04

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0615	04/18/24	04/18/24	EPA 7196A	

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

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	8.34	0.0500	mg/L dry	1	BHB0673	02/21/24	02/29/24	EPA 6020B	
Magnesium	5.21	0.0500	"	"	"	"	"	"	
Sodium	9.91	0.0500	"	"	"	"	"	"	

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Project Number: UWRWE-A2137-ABN
Project Manager: Paul Henchan

Reported:
04/22/24 09:27

BKG02@4.0'
2402287-04 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.663	0.00100	units	1	BHC0013	03/01/24	03/01/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.4		%	1	BHB0854	02/27/24	02/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.94	0.0100	mmhos/cm	1	BHB0732	02/22/24	02/25/24	EPA 120.1	

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

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.54		pH Units	1	BHB0730	02/22/24	02/25/24	EPA 9045D	

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Project: Hanson BC 0-64N67W 1NESE (Backgrounds)

Project Number: UWRWE-A2137-ABN
Project Manager: Paul Henchan

Reported:
04/22/24 09:27

BKG03@5.0'
2402287-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHB0920	02/29/24	03/01/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	5.11	0.200	mg/kg dry	1	BHD0325	04/10/24	04/12/24	EPA 6020B	
Barium	85.3	0.400	"	"	"	"	"	"	
Cadmium	0.230	0.200	"	"	"	"	"	"	
Copper	8.07	0.400	"	"	"	"	"	"	
Lead	7.28	0.200	"	"	"	"	"	"	
Nickel	11.3	0.400	"	"	"	"	"	"	
Silver	0.0395	0.0200	"	"	"	"	"	"	
Zinc	24.3	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

I-04

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0615	04/18/24	04/18/24	EPA 7196A	

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

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	11.7	0.0500	mg/L dry	1	BHB0673	02/21/24	02/29/24	EPA 6020B	
Magnesium	2.75	0.0500	"	"	"	"	"	"	
Sodium	7.64	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Hanson BC 0-64N67W INESE (Backgrounds)

Project Number: UWRWE-A2137-ABN
Project Manager: Paul Henchan

Reported:
04/22/24 09:27

BKG03@5.0'
2402287-05 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.522	0.00100	units	1	BHC0013	03/01/24	03/01/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.5		%	1	BHB0854	02/27/24	02/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	5.32	0.0100	mmhos/cm	1	BHB0732	02/22/24	02/25/24	EPA 120.1	

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

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.38		pH Units	1	BHB0730	02/22/24	02/25/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Hanson BC 0-64N67W INESE (Backgrounds)

Project Number: UWRWE-A2137-ABN
Project Manager: Paul Henchan

Reported:
04/22/24 09:27

BKG03@4.0'
2402287-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHB0920	02/29/24	03/01/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	24.1	0.200	mg/kg dry	1	BHD0325	04/10/24	04/12/24	EPA 6020B	
Barium	118	0.400	"	"	"	"	"	"	
Cadmium	0.296	0.200	"	"	"	"	"	"	
Copper	9.73	0.400	"	"	"	"	"	"	
Lead	8.29	0.200	"	"	"	"	"	"	
Nickel	12.8	0.400	"	"	"	"	"	"	
Silver	0.0481	0.0200	"	"	"	"	"	"	
Zinc	25.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

I-04

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0615	04/18/24	04/18/24	EPA 7196A	

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

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	7.48	0.0500	mg/L dry	1	BHB0673	02/21/24	02/29/24	EPA 6020B	
Magnesium	1.94	0.0500	"	"	"	"	"	"	
Sodium	3.61	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Hanson BC 0-64N67W INESE (Backgrounds)

Project Number: UWRWE-A2137-ABN
Project Manager: Paul Henchan

Reported:
04/22/24 09:27

BKG03@4.0'
2402287-06 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.304	0.00100	units	1	BHC0013	03/01/24	03/01/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.1		%	1	BHB0854	02/27/24	02/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.71	0.0100	mmhos/cm	1	BHB0732	02/22/24	02/25/24	EPA 120.1	

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

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.63		pH Units	1	BHB0730	02/22/24	02/25/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Hanson BC 0-64N67W INESE (Backgrounds)

Project Number: UWRWE-A2137-ABN
Project Manager: Paul Henchan

Reported:
04/22/24 09:27

BKG04@5.0'
2402287-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHB0920	02/29/24	03/01/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.89	0.200	mg/kg dry	1	BHD0325	04/10/24	04/12/24	EPA 6020B	
Barium	105	0.400	"	"	"	"	"	"	
Cadmium	0.245	0.200	"	"	"	"	"	"	
Copper	11.1	0.400	"	"	"	"	"	"	
Lead	6.93	0.200	"	"	"	"	"	"	
Nickel	15.2	0.400	"	"	"	"	"	"	
Silver	0.0440	0.0200	"	"	"	"	"	"	
Zinc	24.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

I-04

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0615	04/18/24	04/18/24	EPA 7196A	

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

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	6.74	0.0500	mg/L dry	1	BHB0673	02/21/24	02/29/24	EPA 6020B	
Magnesium	3.95	0.0500	"	"	"	"	"	"	
Sodium	4.18	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Hanson BC 0-64N67W INESE (Backgrounds)

Project Number: UWRWE-A2137-ABN
Project Manager: Paul Henchan

Reported:
04/22/24 09:27

BKG04@5.0'
2402287-07 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.316	0.00100	units	1	BHC0013	03/01/24	03/01/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.2		%	1	BHB0854	02/27/24	02/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.44	0.0100	mmhos/cm	1	BHB0732	02/22/24	02/25/24	EPA 120.1	

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

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.08		pH Units	1	BHB0730	02/22/24	02/25/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Hanson BC 0-64N67W 1NESE (Backgrounds)

Project Number: UWRWE-A2137-ABN
Project Manager: Paul Henchan

Reported:
04/22/24 09:27

BKG04@4.0'
2402287-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHB0920	02/29/24	03/01/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.61	0.200	mg/kg dry	1	BHD0325	04/10/24	04/12/24	EPA 6020B	
Barium	93.1	0.400	"	"	"	"	"	"	
Cadmium	0.222	0.200	"	"	"	"	"	"	
Copper	9.55	0.400	"	"	"	"	"	"	
Lead	7.56	0.200	"	"	"	"	"	"	
Nickel	13.1	0.400	"	"	"	"	"	"	
Silver	0.0489	0.0200	"	"	"	"	"	"	
Zinc	24.8	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

I-04

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0615	04/18/24	04/18/24	EPA 7196A	

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

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	13.1	0.0500	mg/L dry	1	BHB0673	02/21/24	02/29/24	EPA 6020B	
Magnesium	5.17	0.0500	"	"	"	"	"	"	
Sodium	6.38	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Hanson BC 0-64N67W INESE (Backgrounds)

Project Number: UWRWE-A2137-ABN
Project Manager: Paul Henchan

Reported:
04/22/24 09:27

BKG04@4.0'
2402287-08 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.378	0.00100	units	1	BHC0013	03/01/24	03/01/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.1		%	1	BHB0854	02/27/24	02/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.24	0.0100	mmhos/cm	1	BHB0732	02/22/24	02/25/24	EPA 120.1	

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

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.53		pH Units	1	BHB0730	02/22/24	02/25/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Hanson BC 0-64N67W 1NESE (Backgrounds)

Project Number: UWRWE-A2137-ABN
Project Manager: Paul Henchan

Reported:
04/22/24 09:27

BKG05@5.0'
2402287-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHB0920	02/29/24	03/01/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.810	0.200	mg/kg dry	1	BHD0325	04/10/24	04/12/24	EPA 6020B	
Barium	31.3	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.43	0.400	"	"	"	"	"	"	
Lead	2.18	0.200	"	"	"	"	"	"	
Nickel	5.54	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	12.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

I-04

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0615	04/18/24	04/18/24	EPA 7196A	

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

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	0.620	0.0500	mg/L dry	1	BHB0673	02/21/24	02/29/24	EPA 6020B	
Magnesium	0.829	0.0500	"	"	"	"	"	"	
Sodium	2.39	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Hanson BC 0-64N67W INESE (Backgrounds)

Project Number: UWRWE-A2137-ABN
Project Manager: Paul Henchan

Reported:
04/22/24 09:27

BKG05@5.0'
2402287-09 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.467	0.00100	units	1	BHC0013	03/01/24	03/01/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	98.1		%	1	BHB0854	02/27/24	02/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	5.09	0.0100	mmhos/cm	1	BHB0732	02/22/24	02/25/24	EPA 120.1	

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

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.61		pH Units	1	BHB0730	02/22/24	02/25/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Hanson BC 0-64N67W 1NESE (Backgrounds)

Project Number: UWRWE-A2137-ABN
Project Manager: Paul Henchan

Reported:
04/22/24 09:27

BKG05@4.0'
2402287-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHB0920	02/29/24	03/01/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.89	0.200	mg/kg dry	1	BHD0325	04/10/24	04/12/24	EPA 6020B	
Barium	24.3	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.48	0.400	"	"	"	"	"	"	
Lead	1.78	0.200	"	"	"	"	"	"	
Nickel	3.84	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	9.47	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

I-04

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0615	04/18/24	04/18/24	EPA 7196A	

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

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	0.977	0.0500	mg/L dry	1	BHB0673	02/21/24	02/29/24	EPA 6020B	
Magnesium	1.05	0.0500	"	"	"	"	"	"	
Sodium	2.22	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Hanson BC 0-64N67W INESE (Backgrounds)

Project Number: UWRWE-A2137-ABN
 Project Manager: Paul Henchan

Reported:
 04/22/24 09:27

BKG05@4.0'
2402287-10 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.371	0.00100	units	1	BHC0013	03/01/24	03/01/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.4		%	1	BHB0854	02/27/24	02/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.51	0.0100	mmhos/cm	1	BHB0732	02/22/24	02/25/24	EPA 120.1	

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

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.58		pH Units	1	BHB0730	02/22/24	02/25/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
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Wellington CO, 80549

Project: Hanson BC 0-64N67W 1NESE (Backgrounds)

Project Number: UWRWE-A2137-ABN
Project Manager: Paul Henchan

Reported:
04/22/24 09:27

BKG06@5.0'
2402287-11 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHB0920	02/29/24	03/01/24	EPA 6020B	

Total Metals by EPA 6020B

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.31	0.180	mg/kg dry	1	BHD0325	04/10/24	04/12/24	EPA 6020B	
Barium	37.6	0.360	"	"	"	"	"	"	
Cadmium	ND	0.180	"	"	"	"	"	"	
Copper	2.69	0.360	"	"	"	"	"	"	
Lead	2.27	0.180	"	"	"	"	"	"	
Nickel	3.79	0.360	"	"	"	"	"	"	
Silver	ND	0.0180	"	"	"	"	"	"	
Zinc	10.6	0.360	"	"	"	"	"	"	
Selenium	ND	0.234	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

I-04

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0615	04/18/24	04/18/24	EPA 7196A	

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

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	2.50	0.0500	mg/L dry	1	BHB0673	02/21/24	02/29/24	EPA 6020B	
Magnesium	1.78	0.0500	"	"	"	"	"	"	
Sodium	1.05	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Hanson BC 0-64N67W INESE (Backgrounds)
Project Number: UWRWE-A2137-ABN
Project Manager: Paul Henchan

Reported:
04/22/24 09:27

BKG06@5.0'
2402287-11 (Soil)

Summit Scientific

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.124	0.00100	units	1	BHC0013	03/01/24	03/01/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.1		%	1	BHB0854	02/27/24	02/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.694	0.0100	mmhos/cm	1	BHB0732	02/22/24	02/25/24	EPA 120.1	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.42		pH Units	1	BHB0730	02/22/24	02/25/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Hanson BC 0-64N67W INESE (Backgrounds)

Project Number: UWRWE-A2137-ABN
Project Manager: Paul Henchan

Reported:
04/22/24 09:27

BKG07@5.0'
2402287-12 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHB0920	02/29/24	03/01/24	EPA 6020B	

Total Metals by EPA 6020B

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.63	0.200	mg/kg dry	1	BHD0325	04/10/24	04/12/24	EPA 6020B	
Barium	162	0.400	"	"	"	"	"	"	
Cadmium	0.225	0.200	"	"	"	"	"	"	
Copper	13.2	0.400	"	"	"	"	"	"	
Lead	8.65	0.200	"	"	"	"	"	"	
Nickel	10.4	0.400	"	"	"	"	"	"	
Silver	0.0523	0.0200	"	"	"	"	"	"	
Zinc	28.3	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

I-04

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0615	04/18/24	04/18/24	EPA 7196A	

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

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	7.46	0.0500	mg/L dry	1	BHB0673	02/21/24	02/29/24	EPA 6020B	
Magnesium	2.56	0.0500	"	"	"	"	"	"	
Sodium	2.68	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Hanson BC 0-64N67W INESE (Backgrounds)
Project Number: UWRWE-A2137-ABN
Project Manager: Paul Henchan

Reported:
04/22/24 09:27

BKG07@5.0'
2402287-12 (Soil)

Summit Scientific

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.216	0.00100	units	1	BHC0013	03/01/24	03/01/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.9		%	1	BHB0854	02/27/24	02/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.242	0.0100	mmhos/cm	1	BHB0732	02/22/24	02/25/24	EPA 120.1	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.15		pH Units	1	BHB0730	02/22/24	02/25/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Hanson BC 0-64N67W 1NESE (Backgrounds)

Project Number: UWRWE-A2137-ABN
Project Manager: Paul Henchan

Reported:
04/22/24 09:27

BKG08@5.0'
2402287-13 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHB0920	02/29/24	03/01/24	EPA 6020B	

Total Metals by EPA 6020B

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.742	0.200	mg/kg dry	1	BHD0325	04/10/24	04/12/24	EPA 6020B	
Barium	23.1	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.07	0.400	"	"	"	"	"	"	
Lead	1.65	0.200	"	"	"	"	"	"	
Nickel	2.64	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	7.93	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

I-04

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0615	04/18/24	04/18/24	EPA 7196A	

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

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	1.34	0.0500	mg/L dry	1	BHB0673	02/21/24	02/29/24	EPA 6020B	
Magnesium	1.56	0.0500	"	"	"	"	"	"	
Sodium	1.14	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Hanson BC 0-64N67W INESE (Backgrounds)

Project Number: UWRWE-A2137-ABN
Project Manager: Paul Henchan

Reported:
04/22/24 09:27

BKG08@5.0'
2402287-13 (Soil)

Summit Scientific

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.159	0.00100	units	1	BHC0013	03/01/24	03/01/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.9		%	1	BHB0854	02/27/24	02/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.19	0.0100	mmhos/cm	1	BHB0732	02/22/24	02/25/24	EPA 120.1	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.12		pH Units	1	BHB0730	02/22/24	02/25/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Hanson BC 0-64N67W INESE (Backgrounds)

Project Number: UWRWE-A2137-ABN
Project Manager: Paul Henchan

Reported:
04/22/24 09:27

BKG09@5.0'
2402287-14 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHB0920	02/29/24	03/01/24	EPA 6020B	

Total Metals by EPA 6020B

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.39	0.200	mg/kg dry	1	BHD0325	04/10/24	04/12/24	EPA 6020B	
Barium	73.7	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	6.94	0.400	"	"	"	"	"	"	
Lead	5.23	0.200	"	"	"	"	"	"	
Nickel	6.72	0.400	"	"	"	"	"	"	
Silver	0.0287	0.0200	"	"	"	"	"	"	
Zinc	18.8	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

I-04

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0615	04/18/24	04/18/24	EPA 7196A	

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

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	4.89	0.0500	mg/L dry	1	BHB0673	02/21/24	02/29/24	EPA 6020B	
Magnesium	1.34	0.0500	"	"	"	"	"	"	
Sodium	3.84	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Hanson BC 0-64N67W INESE (Backgrounds)
Project Number: UWRWE-A2137-ABN
Project Manager: Paul Henchan

Reported:
04/22/24 09:27

BKG09@5.0'
2402287-14 (Soil)

Summit Scientific

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.397	0.00100	units	1	BHC0013	03/01/24	03/01/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.8		%	1	BHB0854	02/27/24	02/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.10	0.0100	mmhos/cm	1	BHB0732	02/22/24	02/25/24	EPA 120.1	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.90		pH Units	1	BHB0730	02/22/24	02/25/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Hanson BC 0-64N67W 1NESE (Backgrounds)

Project Number: UWRWE-A2137-ABN
Project Manager: Paul Henchan

Reported:
04/22/24 09:27

BKG10@5.0'
2402287-15 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHB0920	02/29/24	03/01/24	EPA 6020B	

Total Metals by EPA 6020B

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.60	0.200	mg/kg dry	1	BHD0325	04/10/24	04/12/24	EPA 6020B	
Barium	25.2	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	4.41	0.400	"	"	"	"	"	"	
Lead	3.07	0.200	"	"	"	"	"	"	
Nickel	4.66	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	13.3	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

I-04

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0615	04/18/24	04/18/24	EPA 7196A	

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

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	2.38	0.0500	mg/L dry	1	BHB0673	02/21/24	02/29/24	EPA 6020B	
Magnesium	0.877	0.0500	"	"	"	"	"	"	
Sodium	0.505	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Hanson BC 0-64N67W INESE (Backgrounds)
Project Number: UWRWE-A2137-ABN
Project Manager: Paul Henchan

Reported:
04/22/24 09:27

BKG10@5.0'
2402287-15 (Soil)

Summit Scientific

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0711	0.00100	units	1	BHC0013	03/01/24	03/01/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.3		%	1	BHB0854	02/27/24	02/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.06	0.0100	mmhos/cm	1	BHB0732	02/22/24	02/25/24	EPA 120.1	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.84		pH Units	1	BHB0730	02/22/24	02/25/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Hanson BC 0-64N67W INESE (Backgrounds)

Project Number: UWRWE-A2137-ABN
 Project Manager: Paul Henchan

Reported:
 04/22/24 09:27

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 BHB0920 - EPA 3050B

Blank (BHB0920-BLK1)

Prepared: 02/29/24 Analyzed: 03/01/24

Boron ND 2.00 mg/L

LCS (BHB0920-BS1)

Prepared: 02/29/24 Analyzed: 03/01/24

Boron 5.21 2.00 mg/L 5.00 104 80-120

Duplicate (BHB0920-DUP1)

Source: 2402062-04

Prepared: 02/29/24 Analyzed: 03/01/24

Boron 0.635 2.00 mg/L 0.634 0.124 20

Matrix Spike (BHB0920-MS1)

Source: 2402062-04

Prepared: 02/29/24 Analyzed: 03/01/24

Boron 5.77 2.00 mg/L 5.00 0.634 103 75-125

Matrix Spike Dup (BHB0920-MSD1)

Source: 2402062-04

Prepared: 02/29/24 Analyzed: 03/01/24

Boron 5.75 2.00 mg/L 5.00 0.634 102 75-125 0.340 25

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Hanson BC 0-64N67W INESE (Backgrounds)

Project Number: UWRWE-A2137-ABN
Project Manager: Paul Henchan

Reported:
04/22/24 09:27

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHD0325 - EPA 3050B

Blank (BHD0325-BLK1)

Prepared: 04/10/24 Analyzed: 04/12/24

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 (BHD0325-BS1)

Prepared: 04/10/24 Analyzed: 04/12/24

Arsenic	37.2	0.200	mg/kg wet	40.0	93.1	80-120
Barium	37.6	0.400	"	40.0	94.0	80-120
Cadmium	1.89	0.200	"	2.00	94.6	80-120
Copper	37.7	0.400	"	40.0	94.2	80-120
Lead	18.6	0.200	"	20.0	92.9	80-120
Nickel	37.1	0.400	"	40.0	92.8	80-120
Silver	1.90	0.0200	"	2.00	94.9	80-120
Zinc	38.5	0.400	"	40.0	96.2	80-120
Selenium	4.03	0.260	"	4.00	101	80-120

Duplicate (BHD0325-DUP1)

Source: 2402238-21

Prepared: 04/10/24 Analyzed: 04/12/24

Arsenic	7.13	0.200	mg/kg dry	7.27	1.97	20
Barium	16.4	0.400	"	16.2	0.947	20
Cadmium	0.219	0.200	"	0.197	10.6	20
Copper	4.86	0.400	"	4.80	1.39	20
Lead	4.46	0.200	"	4.26	4.51	20
Nickel	3.52	0.400	"	3.60	2.01	20
Silver	0.00944	0.0200	"	0.00616	42.1	20
Zinc	9.29	0.400	"	8.41	9.97	20
Selenium	0.503	0.260	"	0.430	15.6	20

QR-01

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Hanson BC 0-64N67W INESE (Backgrounds)

Project Number: UWRWE-A2137-ABN
Project Manager: Paul Henchan

Reported:
04/22/24 09:27

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 BHD0325 - EPA 3050B

Matrix Spike (BHD0325-MS1)

Source: 2402238-21

Prepared: 04/10/24 Analyzed: 04/12/24

Arsenic	42.3	0.200	mg/kg dry	39.3	7.27	89.0	75-125			
Barium	51.0	0.400	"	39.3	16.2	88.4	75-125			
Cadmium	2.05	0.200	"	1.97	0.197	94.3	75-125			
Copper	41.2	0.400	"	39.3	4.80	92.4	75-125			
Lead	21.1	0.200	"	19.7	4.26	85.6	75-125			
Nickel	39.5	0.400	"	39.3	3.60	91.4	75-125			
Silver	1.95	0.0200	"	1.97	0.00616	98.7	75-125			
Zinc	39.9	0.400	"	39.3	8.41	80.0	75-125			
Selenium	4.49	0.260	"	3.93	0.430	103	75-125			

Matrix Spike Dup (BHD0325-MSD1)

Source: 2402238-21

Prepared: 04/10/24 Analyzed: 04/12/24

Arsenic	44.1	0.200	mg/kg dry	39.3	7.27	93.6	75-125	4.21	25
Barium	57.1	0.400	"	39.3	16.2	104	75-125	11.3	25
Cadmium	2.32	0.200	"	1.97	0.197	108	75-125	12.2	25
Copper	42.9	0.400	"	39.3	4.80	96.8	75-125	4.14	25
Lead	24.0	0.200	"	19.7	4.26	101	75-125	13.1	25
Nickel	41.1	0.400	"	39.3	3.60	95.4	75-125	3.94	25
Silver	2.15	0.0200	"	1.97	0.00616	109	75-125	10.0	25
Zinc	43.8	0.400	"	39.3	8.41	90.0	75-125	9.35	25
Selenium	5.15	0.260	"	3.93	0.430	120	75-125	13.6	25

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Project: Hanson BC 0-64N67W INESE (Backgrounds)

Project Number: UWRWE-A2137-ABN
 Project Manager: Paul Henchan

Reported:
 04/22/24 09:27

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 BHD0615 - 3060A Mod

Blank (BHD0615-BLK1)

Prepared & Analyzed: 04/18/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHD0615-BS1)

Prepared & Analyzed: 04/18/24

Chromium, Hexavalent 25.6 0.30 mg/kg wet 25.0 102 80-120

Duplicate (BHD0615-DUP1)

Source: 2402287-01

Prepared & Analyzed: 04/18/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHD0615-MS1)

Source: 2402287-01

Prepared & Analyzed: 04/18/24

Chromium, Hexavalent 28.5 0.30 mg/kg dry 28.0 ND 102 75-125

Matrix Spike Dup (BHD0615-MSD1)

Source: 2402287-01

Prepared & Analyzed: 04/18/24

Chromium, Hexavalent 28.5 0.30 mg/kg dry 28.0 ND 102 75-125 0.00 20

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Project: Hanson BC 0-64N67W 1NESE (Backgrounds)

Project Number: UWRWE-A2137-ABN
 Project Manager: Paul Henchan

Reported:
 04/22/24 09:27

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 BHB0673 - General Preparation

Blank (BHB0673-BLK1)

Prepared: 02/21/24 Analyzed: 02/29/24

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

LCS (BHB0673-BS1)

Prepared: 02/21/24 Analyzed: 02/29/24

Calcium	5.85	0.0500	mg/L wet	5.00	117	70-130				
Magnesium	5.53	0.0500	"	5.00	111	70-130				
Sodium	5.54	0.0500	"	5.00	111	70-130				

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Project: Hanson BC 0-64N67W 1NESE (Backgrounds)

Project Number: UWRWE-A2137-ABN
 Project Manager: Paul Henchan

Reported:
 04/22/24 09:27

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 BHB0854 - General Preparation

Duplicate (BHB0854-DUP1)	Source: 2402287-01	Prepared: 02/27/24	Analyzed: 02/28/24
% Solids	89.3	%	89.2
			0.204
			20

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Project: Hanson BC 0-64N67W INESE (Backgrounds)

Project Number: UWRWE-A2137-ABN
 Project Manager: Paul Henchan

Reported:
 04/22/24 09:27

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 BHB0732 - General Preparation

Blank (BHB0732-BLK1)

Prepared: 02/22/24 Analyzed: 02/25/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHB0732-BS1)

Prepared: 02/22/24 Analyzed: 02/25/24

Specific Conductance (EC) 0.146 0.0100 mmhos/cm 0.150 97.3 95-105

Duplicate (BHB0732-DUP1)

Source: 2402062-04

Prepared: 02/22/24 Analyzed: 02/25/24

Specific Conductance (EC) 0.469 0.0100 mmhos/cm 0.466 0.727 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Hanson BC 0-64N67W 1NESE (Backgrounds)

Project Number: UWRWE-A2137-ABN
 Project Manager: Paul Henchan

Reported:
 04/22/24 09:27

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 BHB0730 - General Preparation

LCS (BHB0730-BS1)

Prepared: 02/22/24 Analyzed: 02/25/24

pH	9.08	pH Units	9.18	98.9	95-105
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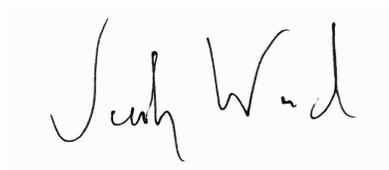
Duplicate (BHB0730-DUP1)

Source: 2402062-04

Prepared: 02/22/24 Analyzed: 02/25/24

pH	8.28	pH Units	8.35	0.842	20
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Hanson BC 0-64N67W 1NESE (Backgrounds)

Project Number: UWRWE-A2137-ABN
Project Manager: Paul Henchan

Reported:
04/22/24 09:27

Notes and Definitions

- 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.
- I-04 Sample was analyzed out of recommended holding time per clients request.
- 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