

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

April 08, 2024

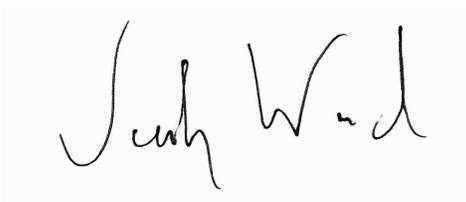
Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549

RE: Hanson BC 0-64N67W 1NESE

Work Order #2402267

Enclosed are the results of analyses for samples received by Summit Scientific on 02/14/24 17:41. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Jacob Wood For Ben Shrewsbury
Laboratory Manager



Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
04/08/24 16:24

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
(FL01-01)B01@5.0'	2402267-01	Soil	02/14/24 00:00	02/14/24 17:41
(FL01-01)N01@4.0'	2402267-02	Soil	02/14/24 00:00	02/14/24 17:41
(FL01-01)S01@4.0'	2402267-03	Soil	02/14/24 00:00	02/14/24 17:41
(FL01-01)E01@4.0'	2402267-04	Soil	02/14/24 00:00	02/14/24 17:41
(FL01-01)W01@4.0'	2402267-05	Soil	02/14/24 00:00	02/14/24 17:41
(FL01-03)B01@5.5'	2402267-06	Soil	02/14/24 00:00	02/14/24 17:41
(FL01-03)N01@4.5'	2402267-07	Soil	02/14/24 00:00	02/14/24 17:41
(FL01-03)S01@4.5'	2402267-08	Soil	02/14/24 00:00	02/14/24 17:41
(FL01-03)E01@4.5'	2402267-09	Soil	02/14/24 00:00	02/14/24 17:41
(FL01-03)W01@4.5'	2402267-10	Soil	02/14/24 00:00	02/14/24 17:41
(FL01-03) Backfill	2402267-11	Soil	02/14/24 00:00	02/14/24 17:41
(FL01-03) GW01	2402267-12	Water	02/14/24 00:00	02/14/24 17:41

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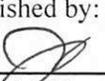
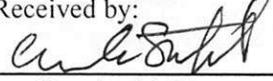
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4653 Table Mountain Drive
Golden, CO 80403
303-277-9310

Lab ID	Page 1 of 1
2402207	

Send Data To:		Send Invoice To:	
Client: Fremont Env	Project Manager: Paul Henehan	Company:	
Address:	E-Mail: Paul.h@fremontenv.com	Project Name/Location:	
City/State/Zip:	Jeff.g@fremontenv.com Ethen.b@fremontenv.com	AFE#:	
Phone:	Project Name: Hanson BC O-64N67W 1NESE	PO/Billing Codes: UWRWE-A2137-ABN	
Sampler Name: JG	Project Number:	Contact:	

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+N	TMBs (915)	DRO, DRO, GRO	PAHs (915)		EC, PH, SAR, ^{Boron}	Metals (915)
1	(FL01-01) B01@5.0'	2/14/24		2			X			X			X	X	X	X	X		
2	(FL01-01) N01@4.0'																		
3	(FL01-01) S01@4.0'																		
4	(FL01-01) E01@4.0'																		
5	(FL01-01) W01@4.0'																		
6																			
7	(FL01-03) B01@5.5'																		
8	(FL01-03) N01@4.5'																		
9	(FL01-03) S01@4.5'																		
10	(FL01-03) E01@4.5'																		
11	(FL01-03) W01@4.5'																		
12	(FL01-03) 6W01 ^{6W01}			2			X			X			X	X	X	X			
13	(FL01-03) 6W01			3	X				X				X	X					
14																			
15																			

Relinquished by:  Date/Time: 2/14/24	Received by:  Date/Time: 2/14/24 (7:41)	TAT Business Days	Field DO	Notes:
		Same Day	X Field EC	
Relinquished by: Date/Time:	Received by: Date/Time:	1 Day	Field ORP	
		2 Days	Field pH	
		3 Days	Field Temp.	
Relinquished by: Date/Time:	Received by: Date/Time:	Standard	Field Turb.	
Temperature Upon Receipt: 11.2	Corrected Temperature	IR gun #: 2	HNO3 lot #:	

S₂

Sample Receipt Checklist

S2 Work Order# 240 2267

Client: Fremont Client Project ID: Hanson BC 0-64N67W INESE

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

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

Temp (°C) 11.2 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"/>	in cooler
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Same day
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out completely? ⁽¹⁾	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Samples 1-5 have incomplete names
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	HCl
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.				

AS

Custodian Printed Name

2/14/24

Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
04/08/24 16:24

(FL01-01)B01@5.0'
2402267-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHB0488	02/14/24	02/14/24	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0384	96.1 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0412	103 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0416	104 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHB0487	02/14/24	02/14/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	14.7	118 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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

Reported:
04/08/24 16:24

(FL01-01)B01@5.0'
2402267-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHB0504	02/15/24	02/18/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0188	56.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0154	46.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHB0735	02/22/24	02/26/24	EPA 6020B	

Total Metals by EPA 6020B

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Number: UWRWE-A2137-ABN
 Project Manager: Paul Henchan

Reported:
 04/08/24 16:24

(FL01-01)B01@5.0'
2402267-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	7.36	0.200	mg/kg dry	1	BHC0970	03/26/24	04/05/24	EPA 6020B	
Barium	37.7	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.85	0.400	"	"	"	"	"	"	
Lead	7.92	0.200	"	"	"	"	"	"	
Nickel	5.21	0.400	"	"	"	"	"	"	
Silver	0.0499	0.0200	"	"	"	"	"	"	
Zinc	23.6	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	532	0.0500	mg/L dry	1	BHB0495	02/14/24	02/16/24	EPA 6020B	
Magnesium	272	0.0500	"	"	"	"	"	"	
Sodium	87.3	0.0500	"	"	"	"	"	"	

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.768	0.00100	units	1	BHB0639	02/20/24	02/20/24	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	92.3		%	1	BHB0536	02/16/24	02/16/24	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
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Reported:
 04/08/24 16:24

(FL01-01)B01@5.0'
2402267-01 (Soil)

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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Specific Conductance (EC)	3.66	0.0100	mmhos/cm	1	BHB0497	02/15/24	02/15/24	EPA 120.1
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Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.08			pH Units	1	BHB0496	02/15/24	02/15/24	EPA 9045D	

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Project: Hanson BC 0-64N67W INESE
Project Number: UWRWE-A2137-ABN
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Reported:
04/08/24 16:24

(FL01-01)N01@4.0'
2402267-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BHB0488	02/14/24	02/14/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0407	102 %	50-150	"	"	"	"	"	
Surrogate: Toluene-d8	0.0422	106 %	50-150	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0412	103 %	50-150	"	"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BHB0487	02/14/24	02/14/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	14.6	116 %	30-150	"	"	"	"	"	

PAH by EPA Method 8270D SIM

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(FL01-01)N01@4.0'
2402267-02 (Soil)

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PAH by EPA Method 8270D SIM

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHB0504	02/15/24	02/18/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0267	80.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0199	59.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHB0735	02/22/24	02/26/24	EPA 6020B	

Total Metals by EPA 6020B

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

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

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

Reported:
04/08/24 16:24

(FL01-01)N01@4.0'
2402267-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	7.83	0.200	mg/kg dry	1	BHC0970	03/26/24	04/05/24	EPA 6020B	
Barium	29.1	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.76	0.400	"	"	"	"	"	"	
Lead	8.49	0.200	"	"	"	"	"	"	
Nickel	5.08	0.400	"	"	"	"	"	"	
Silver	0.0573	0.0200	"	"	"	"	"	"	
Zinc	23.0	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	511	0.0500	mg/L dry	1	BHB0495	02/14/24	02/16/24	EPA 6020B	
Magnesium	322	0.0500	"	"	"	"	"	"	
Sodium	94.7	0.0500	"	"	"	"	"	"	

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.808	0.00100	units	1	BHB0639	02/20/24	02/20/24	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	95.6		%	1	BHB0536	02/16/24	02/16/24	Calculation	

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
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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 1NESE
Project Number: UWRWE-A2137-ABN
Project Manager: Paul Henchan

Reported:
04/08/24 16:24

(FL01-01)N01@4.0'
2402267-02 (Soil)

Summit Scientific

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

pH	7.83	pH Units	1	BHB0496	02/15/24	02/15/24	EPA 9045D
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Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Hanson BC 0-64N67W INESE

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

Reported:
 04/08/24 16:24

(FL01-01)N01@4.0'
2402267-02 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	2.18	0.0100	mmhos/cm	1	BHB0902	02/28/24	02/28/24	EPA 120.1	

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
04/08/24 16:24

(FL01-01)S01@4.0'
2402267-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BHB0488	02/14/24	02/14/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0400	100 %	50-150	"	"	"	"	"	
Surrogate: Toluene-d8	0.0419	105 %	50-150	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0422	106 %	50-150	"	"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BHB0487	02/14/24	02/14/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	14.7	118 %	30-150	"	"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Hanson BC 0-64N67W INESE

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

Reported:
 04/08/24 16:24

(FL01-01)S01@4.0'
2402267-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHB0504	02/15/24	02/18/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0254	76.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0199	59.8 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHB0735	02/22/24	02/26/24	EPA 6020B	

Total Metals by EPA 6020B

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

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

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
04/08/24 16:24

(FL01-01)S01@4.0'
2402267-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	6.65	0.200	mg/kg dry	1	BHC0970	03/26/24	04/05/24	EPA 6020B	
Barium	43.2	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.49	0.400	"	"	"	"	"	"	
Lead	7.48	0.200	"	"	"	"	"	"	
Nickel	4.92	0.400	"	"	"	"	"	"	
Silver	0.0459	0.0200	"	"	"	"	"	"	
Zinc	22.0	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	10.0	0.0500	mg/L dry	1	BHB0495	02/14/24	02/16/24	EPA 6020B	
Magnesium	17.2	0.0500	"	"	"	"	"	"	
Sodium	16.0	0.0500	"	"	"	"	"	"	

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.711	0.00100	units	1	BHB0639	02/20/24	02/20/24	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	91.5		%	1	BHB0536	02/16/24	02/16/24	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
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
04/08/24 16:24

(FL01-01)S01@4.0'
2402267-03 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Specific Conductance (EC)	0.250	0.0100	mmhos/cm	1	BHB0497	02/15/24	02/15/24	EPA 120.1
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Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

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

Reported:
 04/08/24 16:24

(FL01-01)S01@4.0'
2402267-03 (Soil)

Summit Scientific

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

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.98		pH Units	1	BHB0901	02/28/24	02/28/24	EPA 9045D	

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
04/08/24 16:24

(FL01-01)E01@4.0'
2402267-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHB0488	02/14/24	02/14/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0399	99.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0417	104 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0415	104 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHB0487	02/14/24	02/14/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	14.8	118 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
04/08/24 16:24

(FL01-01)E01@4.0'
2402267-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHB0504	02/15/24	02/18/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	0.00574	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	0.00888	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	0.00904	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	0.00719	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0271	81.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0228	68.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHB0735	02/22/24	02/26/24	EPA 6020B	

Total Metals by EPA 6020B

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

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

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
04/08/24 16:24

(FL01-01)E01@4.0'
2402267-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	7.21	0.200	mg/kg dry	1	BHC0970	03/26/24	04/05/24	EPA 6020B	
Barium	45.1	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.79	0.400	"	"	"	"	"	"	
Lead	7.42	0.200	"	"	"	"	"	"	
Nickel	4.83	0.400	"	"	"	"	"	"	
Silver	0.0444	0.0200	"	"	"	"	"	"	
Zinc	23.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	16.7	0.0500	mg/L dry	1	BHB0495	02/14/24	02/16/24	EPA 6020B	
Magnesium	17.3	0.0500	"	"	"	"	"	"	
Sodium	24.6	0.0500	"	"	"	"	"	"	

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.01	0.00100	units	1	BHB0639	02/20/24	02/20/24	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	88.3		%	1	BHB0536	02/16/24	02/16/24	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
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Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

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

Reported:
 04/08/24 16:24

(FL01-01)E01@4.0'
2402267-04 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Specific Conductance (EC)	0.420	0.0100	mmhos/cm	1	BHB0497	02/15/24	02/15/24	EPA 120.1
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Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.66			pH Units	1	BHB0496	02/15/24	02/15/24	EPA 9045D	

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
04/08/24 16:24

(FL01-01)W01@4.0'
2402267-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHB0488	02/14/24	02/15/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0400	100 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0417	104 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0431	108 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHB0487	02/14/24	02/14/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	16.9	135 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Hanson BC 0-64N67W 1NESE

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

Reported:
04/08/24 16:24

(FL01-01)W01@4.0'
2402267-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHB0504	02/15/24	02/18/24	EPA 8270D SIM	
Anthracene	0.00911	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	0.0103	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	0.00748	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	0.00775	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	0.0259	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	0.0209	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0269	80.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0206	61.9 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHB0735	02/22/24	02/26/24	EPA 6020B	

Total Metals by EPA 6020B

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	9.91	0.200	mg/kg dry	1	BHC0970	03/26/24	04/05/24	EPA 6020B	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
04/08/24 16:24

(FL01-01)W01@4.0'
2402267-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	40.9	0.400	mg/kg dry	1	BHC0970	03/26/24	04/05/24	EPA 6020B	
Cadmium	0.203	0.200	"	"	"	"	"	"	
Copper	4.53	0.400	"	"	"	"	"	"	
Lead	8.86	0.200	"	"	"	"	"	"	
Nickel	4.97	0.400	"	"	"	"	"	"	
Silver	0.0484	0.0200	"	"	"	"	"	"	
Zinc	23.6	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	23.6	0.0500	mg/L dry	1	BHB0495	02/14/24	02/16/24	EPA 6020B	
Magnesium	47.5	0.0500	"	"	"	"	"	"	
Sodium	44.3	0.0500	"	"	"	"	"	"	

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.21	0.00100	units	1	BHB0639	02/20/24	02/20/24	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	95.0		%	1	BHB0536	02/16/24	02/16/24	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)	0.747	0.0100	mmhos/cm	1	BHB0497	02/15/24	02/15/24	EPA 120.1	

Summit Scientific

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Fremont Environmental
 PO Box 1289
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Project: Hanson BC 0-64N67W 1NESE

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

Reported:
 04/08/24 16:24

(FL01-01)W01@4.0'
2402267-05 (Soil)

Summit Scientific

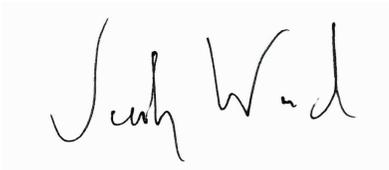
Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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	8.51		pH Units	1	BHB0496	02/15/24	02/15/24	EPA 9045D	

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

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

Reported:
 04/08/24 16:24

(FL01-01)W01@4.0'
2402267-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

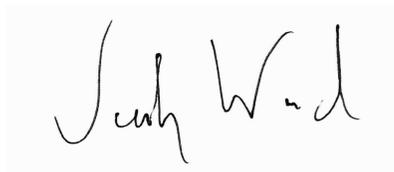
Date Sampled: **02/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzo (a) anthracene	ND	0.00500	mg/kg	1	BHB0884	02/15/24	02/29/24	EPA 8270D SIM	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0198	59.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0138	41.3 %	40-150		"	"	"	"	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Hanson BC 0-64N67W INESE

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

Reported:
04/08/24 16:24

(FL01-03)B01@5.5'
2402267-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.20	mg/kg	100	BHB0488	02/14/24	02/15/24	EPA 8260B	R-05
Toluene	ND	0.50	"	"	"	"	"	"	R-05
Ethylbenzene	ND	0.50	"	"	"	"	"	"	R-05
Xylenes (total)	ND	1.0	"	"	"	"	"	"	R-05
1,2,4-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	R-05
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	R-05
Naphthalene	ND	0.38	"	"	"	"	"	"	R-05

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0379	94.8 %	50-150	"	"	"	"	"	
Surrogate: Toluene-d8	0.0420	105 %	50-150	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0541	135 %	50-150	"	"	"	"	"	

PAH by EPA Method 8270D SIM

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Acenaphthene	ND	0.00500	mg/kg	1	BHB0504	02/15/24	02/18/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	0.0103	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	0.00574	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	0.00503	0.00500	"	"	"	"	"	"	
Fluorene	0.0231	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

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Fremont Environmental
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Wellington CO, 80549

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

Reported:
04/08/24 16:24

(FL01-03)B01@5.5'
2402267-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

2-Methylnaphthalene ND 0.00500 mg/kg 1 BHB0504 02/15/24 02/18/24 EPA 8270D SIM

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0368	110 %	40-150	"	"	"	"	"	
Surrogate: Fluoranthene-d10	0.0203	60.9 %	40-150	"	"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHB0735	02/22/24	02/26/24	EPA 6020B	

Total Metals by EPA 6020B

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.17	0.200	mg/kg dry	1	BHC0970	03/26/24	04/05/24	EPA 6020B	
Barium	10.5	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.34	0.400	"	"	"	"	"	"	
Lead	1.60	0.200	"	"	"	"	"	"	
Nickel	3.64	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	10.3	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	31.3	0.0500	mg/L dry	1	BHB0495	02/14/24	02/16/24	EPA 6020B	
Magnesium	52.5	0.0500	"	"	"	"	"	"	

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Wellington CO, 80549

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

Reported:
04/08/24 16:24

(FL01-03)B01@5.5'
2402267-06 (Soil)

Summit Scientific

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

Sodium	65.1	0.0500	mg/L dry	1	BHB0495	02/14/24	02/16/24	EPA 6020B
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Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.65	0.00100	units	1	BHB0639	02/20/24	02/20/24	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	88.2		%	1	BHB0536	02/16/24	02/16/24	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)	0.807	0.0100	mmhos/cm	1	BHB0497	02/15/24	02/15/24	EPA 120.1	

Summit Scientific

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Wellington CO, 80549

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

Reported:
04/08/24 16:24

(FL01-03)B01@5.5'
2402267-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Hydrocarbons	76	0.50	mg/kg	1	BHB0558	02/16/24	02/17/24	EPA 8260B	E

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0343	85.6 %	50-150	"	"	"	"	"	
Surrogate: Toluene-d8	0.0391	97.7 %	50-150	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.213	532 %	50-150	"	"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	360	50	mg/kg	1	BHB0559	"	02/16/24	EPA 8015M	
C28-C36 (ORO)	53	50	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	6.71	53.7 %	30-150	"	"	"	"	"	

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	8.69		pH Units	1	BHB0901	02/28/24	02/28/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
04/08/24 16:24

(FL01-03)N01@4.5'
2402267-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHB0488	02/14/24	02/15/24	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0390	97.4 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0401	100 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0411	103 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHB0487	02/14/24	02/15/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	12.1	96.7 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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

Reported:
04/08/24 16:24

(FL01-03)N01@4.5'
2402267-07 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHB0504	02/15/24	02/18/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0263	78.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0188	56.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHB0735	02/22/24	02/26/24	EPA 6020B	

Total Metals by EPA 6020B

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

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

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

Reported:
04/08/24 16:24

(FL01-03)N01@4.5'
2402267-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.11	0.200	mg/kg dry	1	BHC0970	03/26/24	04/05/24	EPA 6020B	
Barium	22.3	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.10	0.400	"	"	"	"	"	"	
Lead	2.60	0.200	"	"	"	"	"	"	
Nickel	3.08	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	9.57	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	42.1	0.0500	mg/L dry	1	BHB0495	02/14/24	02/16/24	EPA 6020B	
Magnesium	39.9	0.0500	"	"	"	"	"	"	
Sodium	39.7	0.0500	"	"	"	"	"	"	

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.05	0.00100	units	1	BHB0639	02/20/24	02/20/24	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	92.7		%	1	BHB0536	02/16/24	02/16/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

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

Reported:
 04/08/24 16:24

(FL01-03)N01@4.5'
2402267-07 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.714	0.0100		mmhos/cm	1	BHB0497	02/15/24	02/15/24	EPA 120.1	

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

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.14			pH Units	1	BHB0496	02/15/24	02/15/24	EPA 9045D	

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
04/08/24 16:24

(FL01-03)S01@4.5'
2402267-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHB0488	02/14/24	02/15/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0390	97.4 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0401	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0411	103 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHB0487	02/14/24	02/15/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	11.8	94.0 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
04/08/24 16:24

(FL01-03)S01@4.5'
2402267-08 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHB0504	02/15/24	02/18/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0168	50.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0139	41.8 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHB0735	02/22/24	02/26/24	EPA 6020B	

Total Metals by EPA 6020B

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

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

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

Reported:
04/08/24 16:24

(FL01-03)S01@4.5'
2402267-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.67	0.200	mg/kg dry	1	BHC0970	03/26/24	04/05/24	EPA 6020B	
Barium	34.4	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.36	0.400	"	"	"	"	"	"	
Lead	2.75	0.200	"	"	"	"	"	"	
Nickel	4.14	0.400	"	"	"	"	"	"	
Silver	0.0234	0.0200	"	"	"	"	"	"	
Zinc	13.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	53.7	0.0500	mg/L dry	1	BHB0495	02/14/24	02/16/24	EPA 6020B	
Magnesium	64.6	0.0500	"	"	"	"	"	"	
Sodium	122	0.0500	"	"	"	"	"	"	

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.65	0.00100	units	1	BHB0639	02/20/24	02/20/24	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	87.2		%	1	BHB0536	02/16/24	02/16/24	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
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Project: Hanson BC 0-64N67W 1NESE
 Project Number: UWRWE-A2137-ABN
 Project Manager: Paul Henchan

Reported:
 04/08/24 16:24

(FL01-03)S01@4.5'
2402267-08 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Specific Conductance (EC)	1.22	0.0100	mmhos/cm	1	BHB0497	02/15/24	02/15/24	EPA 120.1
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Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.89			pH Units	1	BHB0496	02/15/24	02/15/24	EPA 9045D	

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

Reported:
04/08/24 16:24

(FL01-03)E01@4.5'
2402267-09 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHB0488	02/14/24	02/15/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0514	128 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0381	95.2 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0270	67.4 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHB0487	02/14/24	02/15/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	10.3	82.4 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Project: Hanson BC 0-64N67W INESE

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

Reported:
04/08/24 16:24

(FL01-03)E01@4.5'
2402267-09 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHB0504	02/15/24	02/18/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0223	66.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0195	58.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHB0735	02/22/24	02/26/24	EPA 6020B	

Total Metals by EPA 6020B

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
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Project: Hanson BC 0-64N67W 1NESE
Project Number: UWRWE-A2137-ABN
Project Manager: Paul Henchan

Reported:
04/08/24 16:24

(FL01-03)E01@4.5'
2402267-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	3.87	0.200	mg/kg dry	1	BHC0970	03/26/24	04/05/24	EPA 6020B
Barium	92.3	0.400	"	"	"	"	"	"
Cadmium	0.242	0.200	"	"	"	"	"	"
Copper	6.42	0.400	"	"	"	"	"	"
Lead	7.76	0.200	"	"	"	"	"	"
Nickel	8.44	0.400	"	"	"	"	"	"
Silver	0.0619	0.0200	"	"	"	"	"	"
Zinc	27.2	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	111	0.0500	mg/L dry	1	BHB0495	02/14/24	02/16/24	EPA 6020B	
Magnesium	100	0.0500	"	"	"	"	"	"	
Sodium	191	0.0500	"	"	"	"	"	"	

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.17	0.00100	units	1	BHB0639	02/20/24	02/20/24	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	80.2		%	1	BHB0536	02/16/24	02/16/24	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
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 PO Box 1289
 Wellington CO, 80549

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

Reported:
 04/08/24 16:24

(FL01-03)E01@4.5'
2402267-09 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Specific Conductance (EC)	1.68	0.0100	mmhos/cm	1	BHB0497	02/15/24	02/15/24	EPA 120.1
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Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.71			pH Units	1	BHB0496	02/15/24	02/15/24	EPA 9045D	

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Project: Hanson BC 0-64N67W INESE
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Reported:
04/08/24 16:24

(FL01-03)W01@4.5'
2402267-10 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHB0488	02/14/24	02/15/24	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0408	102 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0422	106 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0408	102 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHB0487	02/14/24	02/15/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	9.66	77.3 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Hanson BC 0-64N67W 1NESE
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Reported:
04/08/24 16:24

(FL01-03)W01@4.5'
2402267-10 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHB0504	02/15/24	02/18/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0158	47.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0164	49.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHB0735	02/22/24	02/26/24	EPA 6020B	

Total Metals by EPA 6020B

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Hanson BC 0-64N67W 1NESE
Project Number: UWRWE-A2137-ABN
Project Manager: Paul Henchan

Reported:
04/08/24 16:24

(FL01-03)W01@4.5'
2402267-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	4.65	0.200	mg/kg dry	1	BHC0970	03/26/24	04/05/24	EPA 6020B	
Barium	92.0	0.400	"	"	"	"	"	"	
Cadmium	0.261	0.200	"	"	"	"	"	"	
Copper	5.12	0.400	"	"	"	"	"	"	
Lead	6.94	0.200	"	"	"	"	"	"	
Nickel	5.82	0.400	"	"	"	"	"	"	
Silver	0.0499	0.0200	"	"	"	"	"	"	
Zinc	25.6	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	86.6	0.0500	mg/L dry	1	BHB0495	02/14/24	02/16/24	EPA 6020B	
Magnesium	109	0.0500	"	"	"	"	"	"	
Sodium	125	0.0500	"	"	"	"	"	"	

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.11	0.00100	units	1	BHB0639	02/20/24	02/20/24	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	85.8		%	1	BHB0536	02/16/24	02/16/24	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
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Fremont Environmental
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Project: Hanson BC 0-64N67W 1NESE

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

Reported:
 04/08/24 16:24

(FL01-03)W01@4.5'
2402267-10 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Specific Conductance (EC)	1.54	0.0100	mmhos/cm	1	BHB0497	02/15/24	02/15/24	EPA 120.1
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Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.91			pH Units	1	BHB0496	02/15/24	02/15/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
04/08/24 16:24

(FL01-03) Backfill
2402267-11 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHB0488	02/14/24	02/15/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0394	98.5 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0413	103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0424	106 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHB0487	02/14/24	02/15/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	12.6	101 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
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Wellington CO, 80549

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

Reported:
04/08/24 16:24

**(FL01-03) Backfill
2402267-11 (Soil)**

Summit Scientific

PAH by EPA Method 8270D SIM

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHB0504	02/15/24	02/18/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0215	64.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0196	58.9 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHB0735	02/22/24	02/26/24	EPA 6020B	

Total Metals by EPA 6020B

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

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

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

Reported:
04/08/24 16:24

**(FL01-03) Backfill
2402267-11 (Soil)**

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.51	0.200	mg/kg dry	1	BHC0970	03/26/24	04/05/24	EPA 6020B	
Barium	65.7	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	4.57	0.400	"	"	"	"	"	"	
Lead	5.95	0.200	"	"	"	"	"	"	
Nickel	5.23	0.400	"	"	"	"	"	"	
Silver	0.0363	0.0200	"	"	"	"	"	"	
Zinc	18.3	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	38.0	0.0500	mg/L dry	1	BHB0495	02/14/24	02/16/24	EPA 6020B	
Magnesium	8.74	0.0500	"	"	"	"	"	"	
Sodium	11.0	0.0500	"	"	"	"	"	"	

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.418	0.00100	units	1	BHB0639	02/20/24	02/20/24	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	90.4		%	1	BHB0536	02/16/24	02/16/24	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
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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Hanson BC 0-64N67W 1NESE

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

Reported:
 04/08/24 16:24

**(FL01-03) Backfill
 2402267-11 (Soil)**

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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

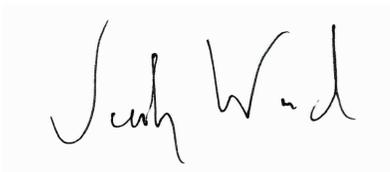
Specific Conductance (EC)	0.321	0.0100	mmhos/cm	1	BHB0497	02/15/24	02/15/24	EPA 120.1
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Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.03			pH Units	1	BHB0496	02/15/24	02/15/24	EPA 9045D	

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

Reported:
 04/08/24 16:24

(FL01-03) GW01
2402267-12 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BHB0481	02/14/24	02/15/24	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	
Naphthalene	ND	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	14.3	107 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	13.5	101 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	18.0	135 %		21-167		"	"	"	"	

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Fremont Environmental
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Project: Hanson BC 0-64N67W INESE
Project Number: UWRWE-A2137-ABN
Project Manager: Paul Henchan

Reported:
04/08/24 16:24

Volatile Organic Compounds by EPA Method 8260B - Quality Control

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

Batch BHB0481 - EPA 5030 Water MS

Blank (BHB0481-BLK1)

Prepared & Analyzed: 02/14/24

Benzene	ND	1.0	ug/l								
Toluene	ND	1.0	"								
Ethylbenzene	ND	1.0	"								
Xylenes (total)	ND	2.0	"								
Naphthalene	ND	1.0	"								
1,2,4-Trimethylbenzene	ND	1.0	"								
1,3,5-Trimethylbenzene	ND	1.0	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	13.6		"	13.3		102		23-173			
<i>Surrogate: Toluene-d8</i>	13.1		"	13.3		98.4		20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	12.8		"	13.3		95.8		21-167			

LCS (BHB0481-BS1)

Prepared & Analyzed: 02/14/24

Benzene	26.4	1.0	ug/l	25.0		106		51-132			
Toluene	25.5	1.0	"	25.0		102		51-138			
Ethylbenzene	28.9	1.0	"	25.0		115		58-146			
m,p-Xylene	67.4	2.0	"	50.0		135		57-144			
o-Xylene	32.1	1.0	"	25.0		128		53-146			
Naphthalene	20.9	1.0	"	25.0		83.4		70-130			
1,2,4-Trimethylbenzene	25.1	1.0	"	25.0		100		70-130			
1,3,5-Trimethylbenzene	25.3	1.0	"	25.0		101		70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	13.4		"	13.3		101		23-173			
<i>Surrogate: Toluene-d8</i>	13.4		"	13.3		100		20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	12.7		"	13.3		95.3		21-167			

Matrix Spike (BHB0481-MS1)

Source: 2402225-01

Prepared & Analyzed: 02/14/24

Benzene	36.3	1.0	ug/l	25.0	ND	145		34-141			QM-07
Toluene	35.4	1.0	"	25.0	ND	141		27-151			
Ethylbenzene	39.0	1.0	"	25.0	ND	156		29-160			
m,p-Xylene	77.1	2.0	"	50.0	ND	154		20-166			
o-Xylene	32.4	1.0	"	25.0	ND	129		33-159			
Naphthalene	36.9	1.0	"	25.0	ND	148		70-130			QM-07
1,2,4-Trimethylbenzene	35.3	1.0	"	25.0	ND	141		70-130			QM-07
1,3,5-Trimethylbenzene	35.4	1.0	"	25.0	ND	142		70-130			QM-07
<i>Surrogate: 1,2-Dichloroethane-d4</i>	13.8		"	13.3		103		23-173			
<i>Surrogate: Toluene-d8</i>	13.5		"	13.3		102		20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	12.3		"	13.3		92.3		21-167			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
04/08/24 16:24

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

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

Batch BHB0481 - EPA 5030 Water MS

Matrix Spike Dup (BHB0481-MSD1)	Source: 2402225-01			Prepared & Analyzed: 02/14/24						
Benzene	35.8	1.0	ug/l	25.0	ND	143	34-141	1.50	30	QM-07
Toluene	34.9	1.0	"	25.0	ND	140	27-151	1.31	30	
Ethylbenzene	39.1	1.0	"	25.0	ND	156	29-160	0.282	30	
m,p-Xylene	77.0	2.0	"	50.0	ND	154	20-166	0.169	30	
o-Xylene	32.2	1.0	"	25.0	ND	129	33-159	0.527	30	
Naphthalene	37.0	1.0	"	25.0	ND	148	70-130	0.0541	30	QM-07
1,2,4-Trimethylbenzene	35.3	1.0	"	25.0	ND	141	70-130	0.113	30	QM-07
1,3,5-Trimethylbenzene	35.4	1.0	"	25.0	ND	141	70-130	0.170	30	QM-07
Surrogate: 1,2-Dichloroethane-d4	13.9		"	13.3		104	23-173			
Surrogate: Toluene-d8	13.5		"	13.3		101	20-170			
Surrogate: 4-Bromofluorobenzene	12.5		"	13.3		94.1	21-167			

Batch BHB0488 - EPA 5030 Soil MS

Blank (BHB0488-BLK1)	Prepared: 02/14/24 Analyzed: 02/15/24									
Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0380		"	0.0400		95.0	50-150			
Surrogate: Toluene-d8	0.0416		"	0.0400		104	50-150			
Surrogate: 4-Bromofluorobenzene	0.0417		"	0.0400		104	50-150			

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Wellington CO, 80549

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

Reported:
04/08/24 16:24

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

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

Batch BHB0488 - EPA 5030 Soil MS

LCS (BHB0488-BS1)

Prepared: 02/14/24 Analyzed: 02/15/24

Benzene	0.0944	0.0020	mg/kg	0.100		94.4	70-130			
Toluene	0.0876	0.0050	"	0.100		87.6	70-130			
Ethylbenzene	0.0838	0.0050	"	0.100		83.8	70-130			
m,p-Xylene	0.160	0.010	"	0.200		79.9	70-130			
o-Xylene	0.0821	0.0050	"	0.100		82.1	70-130			
1,2,4-Trimethylbenzene	0.0823	0.0050	"	0.100		82.3	70-130			
1,3,5-Trimethylbenzene	0.0784	0.0050	"	0.100		78.4	70-130			
Naphthalene	0.0948	0.0038	"	0.100		94.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0363		"	0.0400		90.7	50-150			
Surrogate: Toluene-d8	0.0404		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0418		"	0.0400		105	50-150			

Matrix Spike (BHB0488-MS1)

Source: 2402267-01

Prepared: 02/14/24 Analyzed: 02/15/24

Benzene	0.0878	0.0020	mg/kg	0.100	ND	87.8	70-130			
Toluene	0.0828	0.0050	"	0.100	ND	82.8	70-130			
Ethylbenzene	0.0754	0.0050	"	0.100	ND	75.4	70-130			
m,p-Xylene	0.143	0.010	"	0.200	ND	71.7	70-130			
o-Xylene	0.0743	0.0050	"	0.100	ND	74.3	70-130			
1,2,4-Trimethylbenzene	0.0717	0.0050	"	0.100	ND	71.7	70-130			
1,3,5-Trimethylbenzene	0.0704	0.0050	"	0.100	ND	70.4	70-130			
Naphthalene	0.0805	0.0038	"	0.100	ND	80.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0375		"	0.0400		93.8	50-150			
Surrogate: Toluene-d8	0.0416		"	0.0400		104	50-150			
Surrogate: 4-Bromofluorobenzene	0.0428		"	0.0400		107	50-150			

Matrix Spike Dup (BHB0488-MSD1)

Source: 2402267-01

Prepared: 02/14/24 Analyzed: 02/15/24

Benzene	0.0833	0.0020	mg/kg	0.100	ND	83.3	70-130	5.29	30	
Toluene	0.0778	0.0050	"	0.100	ND	77.8	70-130	6.16	30	
Ethylbenzene	0.0733	0.0050	"	0.100	ND	73.3	70-130	2.86	30	
m,p-Xylene	0.141	0.010	"	0.200	ND	70.4	70-130	1.90	30	
o-Xylene	0.0726	0.0050	"	0.100	ND	72.6	70-130	2.33	30	
1,2,4-Trimethylbenzene	0.0708	0.0050	"	0.100	ND	70.8	70-130	1.26	30	
1,3,5-Trimethylbenzene	0.0681	0.0050	"	0.100	ND	68.1	70-130	3.25	30	QM-07
Naphthalene	0.0825	0.0038	"	0.100	ND	82.5	70-130	2.43	30	
Surrogate: 1,2-Dichloroethane-d4	0.0398		"	0.0400		99.4	50-150			
Surrogate: Toluene-d8	0.0413		"	0.0400		103	50-150			
Surrogate: 4-Bromofluorobenzene	0.0428		"	0.0400		107	50-150			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
04/08/24 16:24

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

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

Batch BHB0558 - EPA 5030 Soil MS

Blank (BHB0558-BLK1)

Prepared & Analyzed: 02/16/24

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0374</i>		<i>"</i>	<i>0.0400</i>		<i>93.6</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0391</i>		<i>"</i>	<i>0.0400</i>		<i>97.6</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0396</i>		<i>"</i>	<i>0.0400</i>		<i>99.1</i>	<i>50-150</i>			

LCS (BHB0558-BS1)

Prepared & Analyzed: 02/16/24

Benzene	0.100	0.0020	mg/kg	0.100		100	70-130			
Toluene	0.0952	0.0050	"	0.100		95.2	70-130			
Ethylbenzene	0.0916	0.0050	"	0.100		91.6	70-130			
m,p-Xylene	0.175	0.010	"	0.200		87.3	70-130			
o-Xylene	0.0885	0.0050	"	0.100		88.5	70-130			
1,2,4-Trimethylbenzene	0.0866	0.0050	"	0.100		86.6	70-130			
1,3,5-Trimethylbenzene	0.0836	0.0050	"	0.100		83.6	70-130			
Naphthalene	0.105	0.0038	"	0.100		105	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0382</i>		<i>"</i>	<i>0.0400</i>		<i>95.6</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0400</i>		<i>"</i>	<i>0.0400</i>		<i>100</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0400</i>		<i>"</i>	<i>0.0400</i>		<i>99.9</i>	<i>50-150</i>			

Matrix Spike (BHB0558-MS1)

Source: 2402268-01

Prepared & Analyzed: 02/16/24

Benzene	0.0967	0.0020	mg/kg	0.100	ND	96.7	70-130			
Toluene	0.0975	0.0050	"	0.100	ND	97.5	70-130			
Ethylbenzene	0.0830	0.0050	"	0.100	ND	83.0	70-130			
m,p-Xylene	0.176	0.010	"	0.200	ND	88.0	70-130			
o-Xylene	0.0853	0.0050	"	0.100	ND	85.3	70-130			
1,2,4-Trimethylbenzene	0.0799	0.0050	"	0.100	ND	79.9	70-130			
1,3,5-Trimethylbenzene	0.0793	0.0050	"	0.100	ND	79.3	70-130			
Naphthalene	0.103	0.0038	"	0.100	ND	103	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0371</i>		<i>"</i>	<i>0.0400</i>		<i>92.8</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0394</i>		<i>"</i>	<i>0.0400</i>		<i>98.4</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0396</i>		<i>"</i>	<i>0.0400</i>		<i>99.1</i>	<i>50-150</i>			

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

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

Reported:
 04/08/24 16:24

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BHB0558 - EPA 5030 Soil MS

Matrix Spike Dup (BHB0558-MSD1)	Source: 2402268-01			Prepared & Analyzed: 02/16/24						
Benzene	0.0979	0.0020	mg/kg	0.100	ND	97.9	70-130	1.20	30	
Toluene	0.0998	0.0050	"	0.100	ND	99.8	70-130	2.25	30	
Ethylbenzene	0.0870	0.0050	"	0.100	ND	87.0	70-130	4.70	30	
m,p-Xylene	0.179	0.010	"	0.200	ND	89.5	70-130	1.71	30	
o-Xylene	0.0856	0.0050	"	0.100	ND	85.6	70-130	0.386	30	
1,2,4-Trimethylbenzene	0.0826	0.0050	"	0.100	ND	82.6	70-130	3.32	30	
1,3,5-Trimethylbenzene	0.0806	0.0050	"	0.100	ND	80.6	70-130	1.58	30	
Naphthalene	0.102	0.0038	"	0.100	ND	102	70-130	1.11	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0355</i>		<i>"</i>	<i>0.0400</i>		<i>88.8</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0389</i>		<i>"</i>	<i>0.0400</i>		<i>97.2</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0386</i>		<i>"</i>	<i>0.0400</i>		<i>96.4</i>	<i>50-150</i>			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
04/08/24 16:24

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BHB0487 - EPA 3550A

Blank (BHB0487-BLK1)

Prepared: 02/14/24 Analyzed: 02/15/24

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	17.9		"	12.5		143		30-150			

LCS (BHB0487-BS1)

Prepared: 02/14/24 Analyzed: 02/15/24

C10-C28 (DRO)	439	50	mg/kg	500		87.8		70-130			
Surrogate: <i>o</i> -Terphenyl	9.47		"	12.5		75.8		30-150			

Matrix Spike (BHB0487-MS1)

Source: 2402267-01

Prepared: 02/14/24 Analyzed: 02/15/24

C10-C28 (DRO)	496	50	mg/kg	500	31.7	92.8		70-130			
Surrogate: <i>o</i> -Terphenyl	12.5		"	12.5		100		30-150			

Matrix Spike Dup (BHB0487-MSD1)

Source: 2402267-01

Prepared: 02/14/24 Analyzed: 02/15/24

C10-C28 (DRO)	463	50	mg/kg	500	31.7	86.2		70-130	6.93	20	
Surrogate: <i>o</i> -Terphenyl	9.58		"	12.5		76.7		30-150			

Batch BHB0559 - EPA 3550A

Blank (BHB0559-BLK1)

Prepared & Analyzed: 02/16/24

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	9.11		"	12.5		72.9		30-150			

LCS (BHB0559-BS1)

Prepared & Analyzed: 02/16/24

C10-C28 (DRO)	391	50	mg/kg	500		78.2		70-130			
Surrogate: <i>o</i> -Terphenyl	8.99		"	12.5		71.9		30-150			

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

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

Reported:
 04/08/24 16:24

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BHB0559 - EPA 3550A

Matrix Spike (BHB0559-MS1)

Source: 2402305-01

Prepared & Analyzed: 02/16/24

C10-C28 (DRO)	389	50	mg/kg	500	11.1	75.6	70-130			
Surrogate: o-Terphenyl	6.49		"	12.5		51.9	30-150			

Matrix Spike Dup (BHB0559-MSD1)

Source: 2402305-01

Prepared & Analyzed: 02/16/24

C10-C28 (DRO)	388	50	mg/kg	500	11.1	75.4	70-130	0.164	20	
Surrogate: o-Terphenyl	6.45		"	12.5		51.6	30-150			

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

Reported:
04/08/24 16:24

PAH by EPA Method 8270D SIM - Quality Control
Summit Scientific

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

Batch BHB0504 - EPA 5030 Soil MS

Blank (BHB0504-BLK1)

Prepared: 02/15/24 Analyzed: 02/18/24

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0385</i>		"	<i>0.0333</i>		<i>115</i>		<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0273</i>		"	<i>0.0333</i>		<i>81.8</i>		<i>40-150</i>		

LCS (BHB0504-BS1)

Prepared: 02/15/24 Analyzed: 02/18/24

Acenaphthene	0.0297	0.00500	mg/kg	0.0333		89.1		31-137		
Anthracene	0.0285	0.00500	"	0.0333		85.4		30-120		
Benzo (a) anthracene	0.0182	0.00500	"	0.0333		54.5		30-120		
Benzo (a) pyrene	0.0232	0.00500	"	0.0333		69.7		30-120		
Benzo (b) fluoranthene	0.0221	0.00500	"	0.0333		66.3		30-120		
Benzo (k) fluoranthene	0.0280	0.00500	"	0.0333		84.0		30-120		
Chrysene	0.0297	0.00500	"	0.0333		89.2		30-120		
Dibenz (a,h) anthracene	0.0216	0.00500	"	0.0333		64.7		30-120		
Fluoranthene	0.0272	0.00500	"	0.0333		81.6		30-120		
Fluorene	0.0287	0.00500	"	0.0333		86.0		30-120		
Indeno (1,2,3-cd) pyrene	0.0219	0.00500	"	0.0333		65.6		30-120		
Pyrene	0.0311	0.00500	"	0.0333		93.2		35-142		
1-Methylnaphthalene	0.0417	0.00500	"	0.0333		125		35-142		
2-Methylnaphthalene	0.0305	0.00500	"	0.0333		91.6		35-142		
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0369</i>		"	<i>0.0333</i>		<i>111</i>		<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0284</i>		"	<i>0.0333</i>		<i>85.1</i>		<i>40-150</i>		

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
04/08/24 16:24

PAH by EPA Method 8270D SIM - Quality Control
Summit Scientific

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

Batch BHB0504 - EPA 5030 Soil MS

Matrix Spike (BHB0504-MS1)	Source: 2402267-01			Prepared: 02/15/24 Analyzed: 02/18/24						
Acenaphthene	0.0178	0.00500	mg/kg	0.0333	ND	53.5	31-137			
Anthracene	0.0181	0.00500	"	0.0333	ND	54.3	30-120			
Benzo (a) anthracene	0.0158	0.00500	"	0.0333	ND	47.4	30-120			
Benzo (a) pyrene	0.0176	0.00500	"	0.0333	ND	52.7	30-120			
Benzo (b) fluoranthene	0.0128	0.00500	"	0.0333	ND	38.5	30-120			
Benzo (k) fluoranthene	0.0155	0.00500	"	0.0333	ND	46.4	30-120			
Chrysene	0.0182	0.00500	"	0.0333	ND	54.7	30-120			
Dibenz (a,h) anthracene	0.0180	0.00500	"	0.0333	ND	54.1	30-120			
Fluoranthene	0.0180	0.00500	"	0.0333	ND	54.0	30-120			
Fluorene	0.0179	0.00500	"	0.0333	ND	53.8	30-120			
Indeno (1,2,3-cd) pyrene	0.0178	0.00500	"	0.0333	ND	53.4	30-120			
Pyrene	0.0189	0.00500	"	0.0333	ND	56.8	35-142			
1-Methylnaphthalene	0.0259	0.00500	"	0.0333	ND	77.6	15-130			
2-Methylnaphthalene	0.0191	0.00500	"	0.0333	ND	57.3	15-130			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0242</i>		<i>"</i>	<i>0.0333</i>		<i>72.5</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0190</i>		<i>"</i>	<i>0.0333</i>		<i>56.9</i>	<i>40-150</i>			

Matrix Spike Dup (BHB0504-MSD1)	Source: 2402267-01			Prepared: 02/15/24 Analyzed: 02/18/24						
Acenaphthene	0.0139	0.00500	mg/kg	0.0333	ND	41.8	31-137	24.7	30	
Anthracene	0.0154	0.00500	"	0.0333	ND	46.2	30-120	16.2	30	
Benzo (a) anthracene	0.0214	0.00500	"	0.0333	ND	64.1	30-120	29.9	30	
Benzo (a) pyrene	0.0137	0.00500	"	0.0333	ND	41.0	30-120	24.8	30	
Benzo (b) fluoranthene	0.0186	0.00500	"	0.0333	ND	55.9	30-120	36.9	30	QR-02
Benzo (k) fluoranthene	0.0160	0.00500	"	0.0333	ND	48.1	30-120	3.71	30	
Chrysene	0.0159	0.00500	"	0.0333	ND	47.6	30-120	14.0	30	
Dibenz (a,h) anthracene	0.0156	0.00500	"	0.0333	ND	46.9	30-120	14.2	30	
Fluoranthene	0.0134	0.00500	"	0.0333	ND	40.3	30-120	29.1	30	
Fluorene	0.0144	0.00500	"	0.0333	ND	43.1	30-120	22.1	30	
Indeno (1,2,3-cd) pyrene	0.0153	0.00500	"	0.0333	ND	45.8	30-120	15.2	30	
Pyrene	0.0135	0.00500	"	0.0333	ND	40.5	35-142	33.5	30	QR-02
1-Methylnaphthalene	0.0151	0.00500	"	0.0333	ND	45.2	15-130	52.9	50	QR-02
2-Methylnaphthalene	0.0149	0.00500	"	0.0333	ND	44.8	15-130	24.5	50	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0163</i>		<i>"</i>	<i>0.0333</i>		<i>48.8</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0141</i>		<i>"</i>	<i>0.0333</i>		<i>42.4</i>	<i>40-150</i>			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
04/08/24 16:24

PAH by EPA Method 8270D SIM - Quality Control
Summit Scientific

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

Batch BHB0884 - EPA 5030 Soil MS

Blank (BHB0884-BLK1)

Prepared: 02/28/24 Analyzed: 02/29/24

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0355</i>		<i>"</i>	<i>0.0333</i>		<i>107</i>		<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0314</i>		<i>"</i>	<i>0.0333</i>		<i>94.3</i>		<i>40-150</i>		

LCS (BHB0884-BS1)

Prepared: 02/28/24 Analyzed: 02/29/24

Acenaphthene	0.0351	0.00500	mg/kg	0.0333	105	31-137
Anthracene	0.0387	0.00500	"	0.0333	116	30-120
Benzo (a) anthracene	0.0392	0.00500	"	0.0333	118	30-120
Benzo (a) pyrene	0.0381	0.00500	"	0.0333	114	30-120
Benzo (b) fluoranthene	0.0374	0.00500	"	0.0333	112	30-120
Benzo (k) fluoranthene	0.0350	0.00500	"	0.0333	105	30-120
Chrysene	0.0337	0.00500	"	0.0333	101	30-120
Dibenz (a,h) anthracene	0.0354	0.00500	"	0.0333	106	30-120
Fluoranthene	0.0359	0.00500	"	0.0333	108	30-120
Fluorene	0.0346	0.00500	"	0.0333	104	30-120
Indeno (1,2,3-cd) pyrene	0.0368	0.00500	"	0.0333	110	30-120
Pyrene	0.0344	0.00500	"	0.0333	103	35-142
1-Methylnaphthalene	0.0392	0.00500	"	0.0333	118	35-142
2-Methylnaphthalene	0.0242	0.00500	"	0.0333	72.7	35-142
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0273</i>		<i>"</i>	<i>0.0333</i>	<i>81.9</i>	<i>40-150</i>
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0313</i>		<i>"</i>	<i>0.0333</i>	<i>93.8</i>	<i>40-150</i>

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
04/08/24 16:24

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHB0884 - EPA 5030 Soil MS

Matrix Spike (BHB0884-MS1)

Source: 2402458-01

Prepared: 02/28/24 Analyzed: 02/29/24

Acenaphthene	0.0166	0.00500	mg/kg	0.0333	ND	49.9	31-137			
Anthracene	0.0192	0.00500	"	0.0333	ND	57.5	30-120			
Benzo (a) anthracene	0.0158	0.00500	"	0.0333	ND	47.5	30-120			
Benzo (a) pyrene	0.0158	0.00500	"	0.0333	ND	47.3	30-120			
Benzo (b) fluoranthene	0.0150	0.00500	"	0.0333	ND	45.1	30-120			
Benzo (k) fluoranthene	0.0183	0.00500	"	0.0333	ND	54.9	30-120			
Chrysene	0.0180	0.00500	"	0.0333	ND	54.1	30-120			
Dibenz (a,h) anthracene	0.0157	0.00500	"	0.0333	ND	47.1	30-120			
Fluoranthene	0.0183	0.00500	"	0.0333	ND	55.0	30-120			
Fluorene	0.0166	0.00500	"	0.0333	ND	49.9	30-120			
Indeno (1,2,3-cd) pyrene	0.0166	0.00500	"	0.0333	ND	49.7	30-120			
Pyrene	0.0186	0.00500	"	0.0333	ND	55.7	35-142			
1-Methylnaphthalene	0.0166	0.00500	"	0.0333	ND	49.9	15-130			
2-Methylnaphthalene	0.0167	0.00500	"	0.0333	ND	50.0	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0134		"	0.0333		40.2	40-150			
Surrogate: Fluoranthene-d10	0.0147		"	0.0333		44.0	40-150			

Matrix Spike Dup (BHB0884-MSD1)

Source: 2402458-01

Prepared: 02/28/24 Analyzed: 02/29/24

Acenaphthene	0.0289	0.00500	mg/kg	0.0333	ND	86.6	31-137	53.8	30	QR-02
Anthracene	0.0311	0.00500	"	0.0333	ND	93.4	30-120	47.7	30	QR-02
Benzo (a) anthracene	0.0255	0.00500	"	0.0333	ND	76.6	30-120	46.8	30	QR-02
Benzo (a) pyrene	0.0268	0.00500	"	0.0333	ND	80.4	30-120	51.8	30	QR-02
Benzo (b) fluoranthene	0.0255	0.00500	"	0.0333	ND	76.4	30-120	51.5	30	QR-02
Benzo (k) fluoranthene	0.0283	0.00500	"	0.0333	ND	84.9	30-120	42.9	30	QR-02
Chrysene	0.0285	0.00500	"	0.0333	ND	85.6	30-120	45.1	30	QR-02
Dibenz (a,h) anthracene	0.0228	0.00500	"	0.0333	ND	68.5	30-120	36.9	30	QR-02
Fluoranthene	0.0303	0.00500	"	0.0333	ND	91.0	30-120	49.3	30	QR-02
Fluorene	0.0285	0.00500	"	0.0333	ND	85.4	30-120	52.4	30	QR-02
Indeno (1,2,3-cd) pyrene	0.0230	0.00500	"	0.0333	ND	69.0	30-120	32.5	30	QR-02
Pyrene	0.0288	0.00500	"	0.0333	ND	86.4	35-142	43.2	30	QR-02
1-Methylnaphthalene	0.0305	0.00500	"	0.0333	ND	91.6	15-130	59.0	50	QR-02
2-Methylnaphthalene	0.0341	0.00500	"	0.0333	ND	102	15-130	68.6	50	QR-02
Surrogate: 2-Methylnaphthalene-d10	0.0192		"	0.0333		57.7	40-150			
Surrogate: Fluoranthene-d10	0.0203		"	0.0333		61.0	40-150			

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 1NESE
 Project Number: UWRWE-A2137-ABN
 Project Manager: Paul Henchan

Reported:
 04/08/24 16:24

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 BHB0735 - EPA 3050B

Blank (BHB0735-BLK1)

Prepared: 02/22/24 Analyzed: 02/26/24

Boron ND 2.00 mg/L

LCS (BHB0735-BS1)

Prepared: 02/22/24 Analyzed: 02/26/24

Boron 7.61 2.00 mg/L 5.00 152 80-120 QLCS-01

Duplicate (BHB0735-DUP1)

Source: 2402184-01

Prepared: 02/22/24 Analyzed: 02/26/24

Boron 0.792 2.00 mg/L 0.861 8.34 20

Matrix Spike (BHB0735-MS1)

Source: 2402184-01

Prepared: 02/22/24 Analyzed: 02/26/24

Boron 9.44 2.00 mg/L 5.00 0.861 172 75-125 QLCS-01

Matrix Spike Dup (BHB0735-MSD1)

Source: 2402184-01

Prepared: 02/22/24 Analyzed: 02/26/24

Boron 9.28 2.00 mg/L 5.00 0.861 168 75-125 1.71 25 QLCS-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
Project Number: UWRWE-A2137-ABN
Project Manager: Paul Henchan

Reported:
04/08/24 16:24

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 BHC0970 - EPA 3050B

Blank (BHC0970-BLK1)

Prepared: 03/26/24 Analyzed: 04/05/24

Arsenic	ND	0.200	mg/kg wet							
Barium	ND	0.400	"							
Cadmium	ND	0.200	"							
Copper	ND	0.400	"							
Lead	ND	0.200	"							
Nickel	ND	0.400	"							
Silver	ND	0.0200	"							
Zinc	ND	0.400	"							
Selenium	ND	0.260	"							

LCS (BHC0970-BS1)

Prepared: 03/26/24 Analyzed: 04/05/24

Arsenic	38.3	0.200	mg/kg wet	40.0	95.8	80-120
Barium	39.2	0.400	"	40.0	98.1	80-120
Cadmium	1.98	0.200	"	2.00	99.2	80-120
Copper	40.5	0.400	"	40.0	101	80-120
Lead	19.4	0.200	"	20.0	96.9	80-120
Nickel	39.9	0.400	"	40.0	99.7	80-120
Silver	1.97	0.0200	"	2.00	98.4	80-120
Zinc	40.5	0.400	"	40.0	101	80-120
Selenium	4.04	0.260	"	4.00	101	80-120

Duplicate (BHC0970-DUP1)

Source: 2402267-01

Prepared: 03/26/24 Analyzed: 04/05/24

Arsenic	7.65	0.200	mg/kg dry	7.36	3.92	20
Barium	38.6	0.400	"	37.7	2.23	20
Cadmium	0.186	0.200	"	0.171	8.48	20
Copper	3.90	0.400	"	3.85	1.21	20
Lead	8.23	0.200	"	7.92	3.77	20
Nickel	5.21	0.400	"	5.21	0.00	20
Silver	0.0546	0.0200	"	0.0499	9.13	20
Zinc	23.5	0.400	"	23.6	0.637	20
Selenium	ND	0.260	"	ND		20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Hanson BC 0-64N67W INESE

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

Reported:
04/08/24 16:24

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 BHC0970 - EPA 3050B

Matrix Spike (BHC0970-MS1)

Source: 2402267-01

Prepared: 03/26/24 Analyzed: 04/05/24

Arsenic	48.1	0.200	mg/kg dry	43.4	7.36	93.9	75-125			
Barium	75.2	0.400	"	43.4	37.7	86.4	75-125			
Cadmium	2.30	0.200	"	2.17	0.171	98.4	75-125			
Copper	27.9	0.400	"	43.4	3.85	55.4	75-125			QM-05
Lead	29.0	0.200	"	21.7	7.92	97.2	75-125			
Nickel	29.1	0.400	"	43.4	5.21	55.0	75-125			QM-05
Silver	2.10	0.0200	"	2.17	0.0499	94.4	75-125			
Zinc	48.6	0.400	"	43.4	23.6	57.6	75-125			QM-05
Selenium	3.39	0.260	"	4.34	ND	78.1	75-125			

Matrix Spike Dup (BHC0970-MSD1)

Source: 2402267-01

Prepared: 03/26/24 Analyzed: 04/05/24

Arsenic	48.4	0.200	mg/kg dry	43.4	7.36	94.7	75-125	0.694	25	
Barium	75.5	0.400	"	43.4	37.7	87.3	75-125	0.516	25	
Cadmium	2.32	0.200	"	2.17	0.171	99.1	75-125	0.638	25	
Copper	27.4	0.400	"	43.4	3.85	54.3	75-125	1.76	25	QM-05
Lead	29.1	0.200	"	21.7	7.92	97.6	75-125	0.276	25	
Nickel	28.6	0.400	"	43.4	5.21	53.9	75-125	1.68	25	QM-05
Silver	2.12	0.0200	"	2.17	0.0499	95.3	75-125	0.885	25	
Zinc	47.5	0.400	"	43.4	23.6	55.0	75-125	2.30	25	QM-05
Selenium	3.39	0.260	"	4.34	ND	78.1	75-125	0.00	25	

Post Spike (BHC0970-PS1)

Source: 2402267-01

Prepared: 03/26/24 Analyzed: 04/05/24

Arsenic	114		ug/l	100	17.0	97.2	75-125			
Barium	174		"	100	87.0	87.2	75-125			
Cadmium	5.32		"	5.00	0.395	98.4	75-125			

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Hanson BC 0-64N67W 1NESE

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

Reported:
 04/08/24 16:24

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 BHB0495 - General Preparation

Blank (BHB0495-BLK1)

Prepared: 02/14/24 Analyzed: 02/16/24

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

LCS (BHB0495-BS1)

Prepared: 02/14/24 Analyzed: 02/16/24

Calcium	5.74	0.0500	mg/L wet	5.00		115	70-130			
Magnesium	5.32	0.0500	"	5.00		106	70-130			
Sodium	5.18	0.0500	"	5.00		104	70-130			

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Hanson BC 0-64N67W 1NESE

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

Reported:
 04/08/24 16:24

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

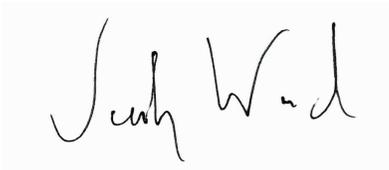
Summit Scientific

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

Batch BHB0536 - General Preparation

Duplicate (BHB0536-DUP1)	Source: 2402062-04			Prepared & Analyzed: 02/16/24		
% Solids	86.6	%		86.3		0.266 20

Summit Scientific



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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

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

Reported:
 04/08/24 16:24

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 BHB0497 - General Preparation

Blank (BHB0497-BLK1)		Prepared & Analyzed: 02/15/24									
Specific Conductance (EC)	ND	0.0100	mmhos/cm								
LCS (BHB0497-BS1)		Prepared & Analyzed: 02/15/24									
Specific Conductance (EC)	0.152	0.0100	mmhos/cm	0.150	101	95-105					
Duplicate (BHB0497-DUP1)		Source: 2402267-01		Prepared & Analyzed: 02/15/24							
Specific Conductance (EC)	3.66	0.0100	mmhos/cm	3.66			0.00	20			

Batch BHB0902 - General Preparation

Blank (BHB0902-BLK1)		Prepared & Analyzed: 02/28/24									
Specific Conductance (EC)	ND	0.0100	mmhos/cm								
LCS (BHB0902-BS1)		Prepared & Analyzed: 02/28/24									
Specific Conductance (EC)	0.148	0.0100	mmhos/cm	0.150	98.9	95-105					
Duplicate (BHB0902-DUP1)		Source: 2402267-02RE1		Prepared & Analyzed: 02/28/24							
Specific Conductance (EC)	2.22	0.0100	mmhos/cm	2.18			2.05	20			

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

Reported:
04/08/24 16:24

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 BHB0496 - General Preparation

LCS (BHB0496-BS1)

Prepared & Analyzed: 02/15/24

pH	9.14		pH Units	9.18		99.6	95-105			
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Duplicate (BHB0496-DUP1)

Source: 2402267-01

Prepared & Analyzed: 02/15/24

pH	8.08		pH Units		8.08			0.00	20	
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Batch BHB0901 - General Preparation

LCS (BHB0901-BS1)

Prepared & Analyzed: 02/28/24

pH	9.13		pH Units	9.18		99.5	95-105			
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Duplicate (BHB0901-DUP1)

Source: 2402267-03RE1

Prepared & Analyzed: 02/28/24

pH	8.96		pH Units		8.98			0.223	20	
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Batch BHC0932 - General Preparation

LCS (BHC0932-BS1)

Prepared & Analyzed: 03/25/24

pH	9.14		pH Units	9.18		99.6	95-105			
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Duplicate (BHC0932-DUP1)

Source: 2402267-03RE2

Prepared & Analyzed: 03/25/24

pH	8.99		pH Units		9.01			0.222	20	
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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.



Division of Environmental Testing

2115 N Scranton St Suite 3040A
Aurora, CO 80045
800-440-5184

March 14, 2024

4653 Table Mountain Drive
Golden, CO 80403
303-277-9310
reports@s2scientific.com

Project Manager : Mikayla Axtell
Project Name : 2402267
Project Number : N/A

Attached are the analytical results for 2402267 N/A received by Elevation Diagnostics, Division of Environmental Testing on February 22, 2024. This is associated with Elevation's number AA05622 .

The results were analyzed under the guidelines of various methods. These methods are identified in the report as follows: "SW" is referring to the EPA's SW-846 Compendium; "EPA" is referring to 40 CFR part 136; "HACH" is referring to a method which was validated by HACH®; "SM" is referring to a revision of the Standard Methods For the Examination of Water and Wastewater; and "ASTM" is referring to the standard test method set forth by ASTM International.

The analytical results in this report apply specifically to the samples listed in the attached Chain of Custody. This report may only be duplicated in full.

Any deviations to sample integrity, method specifications, or Elevation Diagnostics's standard operating procedures are documented in the report below.

Please contact us for any questions or comments concerning the content of this report.

Thank you,

Elevation Diagnostics, Division of Environmental Testing

Kristen Reichel
Laboratory Director
CSO,CCO



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

Lab ID	Page	of

Send Data To:		Send Invoice To:	
Client: Summit Scientific	Project Manager: Mikayla Axtell	Company:	
Address:	E-Mail: reports@s2scientific.com	Project Name/Location:	
City/State/Zip:		AFE#:	
Phone:	Project Name: 2402267	PO/Billing Codes:	
Sampler Name:	Project Number:	Contact:	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested			Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	915 Metals			
1	(FL01-01) B01@5.0'	2/14/2024		1						X			X			
2	(FL01-01) N01@4.0'	2/14/2024		1						X			X			
3	(FL01-01) S01@4.0'	2/14/2024		1						X			X			
4	(FL01-01) E01@4.0'	2/14/2024		1						X			X			
5	(FL01-01) W01@4.0'	2/14/2024		1						X			X			
6	(FL01-03) B01@5.5'	2/14/2024		1						X			X			
7	(FL01-03) N01@4.5'	2/14/2024		1						X			X			
8	(FL01-03) S01@4.5'	2/14/2024		1						X			X			
9	(FL01-03) E01@4.5'	2/14/2024		1						X			X			
10	(FL01-03) W01@4.5'	2/14/2024		1						X			X			
11	(FL01-03) BACKFILL	2/14/2024		1						X			X			
12																
13																
14																
15																

Relinquished by:	Date/Time: 2/22/24 1130	Received by:	Date/Time:	TAT Business Days	Field DO	Notes: Samples Intact Sample temp: 13.7 C Corrected temp: 15.7 C no pH measured no pH correction Thermometer: EDX.EQ.248 SA 2.22.2024 2024-02-22-040
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
Relinquished by:	Date/Time:	Received by:	Date/Time:	2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
Temperature Upon Receipt: 9.0	Corrected Temperature: 9	IR gun #:		Standard	X	Field Turb.
				HNO3 lot #:		

The results listed pertain only to the samples submitted to Elevation Diagnostics, Division of Environmental Testing as per the Chain of Custody attached. This report may only be duplicated in full.



Division of Environmental Testing

2115 N Scranton St Suite 3040A
 Aurora, CO 80045
 800-440-5184

Report Date : 3/14/2024

Report Time : 14:36

FINAL RESULTS REPORT

REPORT TO
4653 Table Mountain Drive Golden, CO 80403 303-277-9310 reports@s2scientific.com

Project Manager : Mikayla Axtell
Project Name : 2402267
Project Number : N/A

Sample ID	Customer ID	Analyte Name Analysis Start	Dilution	Result	Units	Reporting Limit	Method Reference
AA05622-1	(FL01-01) B01@5.0' Collected : 02/14/2024 15:19	Chromium VI, Soil 03/04/2024 08:37		<0.080	mg/kg	0.080	EPA 3060A & EPA 7199
AA05623-1	(FL01-01) N01@4.0' Collected : 02/14/2024 15:19	Chromium VI, Soil 03/04/2024 11:37		<0.080	mg/kg	0.080	EPA 3060A & EPA 7199
AA05624-1	(FL01-01) S01@4.0' Collected : 02/14/2024 15:19	Chromium VI, Soil 03/04/2024 11:37		<0.080	mg/kg	0.080	EPA 3060A & EPA 7199
AA05625-1	(FL01-01) E01@4.0' Collected : 02/14/2024 15:19	Chromium VI, Soil 03/04/2024 11:37		<0.080	mg/kg	0.080	EPA 3060A & EPA 7199
AA05626-1	(FL01-01) W01@4.0' Collected : 02/14/2024 15:19	Chromium VI, Soil 03/04/2024 11:37		<0.080	mg/kg	0.080	EPA 3060A & EPA 7199
AA05627-1	(FL01-03) B01@5.5' Collected : 02/14/2024 15:19	Chromium VI, Soil 03/04/2024 11:37		<0.080	mg/kg	0.080	EPA 3060A & EPA 7199
AA05628-1	(FL01-03) N01@4.5' Collected : 02/14/2024 15:19	Chromium VI, Soil 03/04/2024 11:37		<0.080	mg/kg	0.080	EPA 3060A & EPA 7199



Division of Environmental Testing

2115 N Scranton St Suite 3040A
 Aurora, CO 80045
 800-440-5184

Report Date : 3/14/2024

Report Time : 14:36

FINAL RESULTS REPORT

REPORT TO
4653 Table Mountain Drive Golden, CO 80403 303-277-9310 reports@s2scientific.com

Project Manager : Mikayla Axtell
Project Name : 2402267
Project Number : N/A

Sample ID	Customer ID	Analyte Name Analysis Start	Dilution	Result	Units	Reporting Limit	Method Reference
AA05629-1	(FL01-03) S01@4.5' Collected : 02/14/2024 15:19	Chromium VI, Soil 03/04/2024 11:37		0.092	mg/kg	0.080	EPA 3060A & EPA 7199
AA05630-1	(FL01-03) E01@4.5' Collected : 02/14/2024 15:19	Chromium VI, Soil 03/04/2024 11:37		0.096	mg/kg	0.080	EPA 3060A & EPA 7199
AA05631-1	(FL01-03) W01@4.5' Collected : 02/14/2024 15:19	Chromium VI, Soil 03/04/2024 11:37		0.086	mg/kg	0.080	EPA 3060A & EPA 7199
AA05632-1	(FL01-03) BACKFILL Collected : 02/14/2024 15:19	Chromium VI, Soil 03/04/2024 11:37		0.137	mg/kg	0.080	EPA 3060A & EPA 7199



Division of Environmental Testing

2115 N Scranton St Suite 3040A

Aurora, CO 80045

800-440-5184

Report Date : 3/14/2024

Report Time : 14:36

FINAL RESULTS REPORT

REPORT TO
4653 Table Mountain Drive Golden, CO 80403 303-277-9310 reports@s2scientific.com

Project Manager : Mikayla Axtell

Project Name : 2402267

Project Number : N/A

Sample ID	Customer ID	Analyte Name Analysis Start	Dilution	Result	Units	Reporting Limit	Method Reference
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QC Report

CHROM_VI_SOIL-2125

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%Rec	% REC Limits	RPD	RPD Limit
DUP AA05392	0.084	0.001	mg/kg		<0.080				
DUP AA05651	0.086	0.001	mg/kg		0.120			33.010	
MB AA05963	Not Detected		ppb						
LCS AA05965	41.291		ppb	40		103.23			
LCS AA05966	39.639		ppb	40		99.098			

CHROM_VI_SOIL-2128

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%Rec	% REC Limits	RPD	RPD Limit
DUP AA05398	<0.080	0.001	mg/kg		<0.080				
DUP AA05612	<0.080	0.080	mg/kg		<0.080				
MB AA05979	0.539		ppb						
LCS AA05981	39.193		ppb	40		97.982			
LCS AA05982	39.449		ppb	40		98.622			



Division of Environmental Testing

2115 N Scranton St Suite 3040A
 Aurora, CO 80045
 800-440-5184

Report Date : 3/14/2024

Report Time : 14:36

FINAL RESULTS REPORT

REPORT TO
4653 Table Mountain Drive Golden, CO 80403 303-277-9310 reports@s2scientific.com

Project Manager : Mikayla Axtell
Project Name : 2402267
Project Number : N/A

Sample ID	Customer ID	Analyte Name Analysis Start	Dilution	Result	Units	Reporting Limit	Method Reference
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QC Report

METALS_S-2123

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%Rec	% REC Limits	RPD	RPD Limit
AA05384									
Arsenic									
DUP	2.288	0.025	mg/kg		2.148			6.3120	0 - 15
Matrix Spike	12.362		mg/kg	10.000	2.148	102.14			
Barium									
DUP	42.098	0.025	mg/kg		41.783			0.75106	0 - 15
Matrix Spike	50.102		mg/kg	10.000	41.783	83.190			
Cadmium									
DUP	0.030	0.001	mg/kg		0.033			9.5238	0 - 15
Matrix Spike	10.911		mg/kg	10.000	0.033	108.78			
Copper									
DUP	4.264	0.025	mg/kg		4.393			2.9802	0 - 15
Matrix Spike	15.187		mg/kg	10.000	4.393	107.94			
Lead									
DUP	3.903	0.025	mg/kg		3.552			9.4165	0 - 15
Matrix Spike	14.589		mg/kg	10.000	3.552	110.37			
Nickel									
DUP	4.763	0.025	mg/kg		4.428			7.2897	0 - 15
Matrix Spike	15.624		mg/kg	10.000	4.428	111.96			
Selenium									
DUP	1.410	0.025	mg/kg		1.561			10.165	0 - 15
Matrix Spike	12.850		mg/kg	10.000	1.561	112.89			
Silver									
DUP	<0.250	0.250	mg/kg		<0.250				
Matrix Spike	10.470		mg/kg	10.000	<0.250	104.70			



Division of Environmental Testing

2115 N Scranton St Suite 3040A
Aurora, CO 80045
800-440-5184

Report Date : 3/14/2024

Report Time : 14:36

FINAL RESULTS REPORT

REPORT TO
4653 Table Mountain Drive Golden, CO 80403 303-277-9310 reports@s2scientific.com

Project Manager : Mikayla Axtell
Project Name : 2402267
Project Number : N/A

Sample ID	Customer ID	Analyte Name Analysis Start	Dilution	Result	Units	Reporting Limit	Method Reference
Zinc							
DUP	18.907	0.025		mg/kg	17.499	7.7350	0 - 15
Matrix Spike	29.003		10.000	mg/kg	17.499	115.04	
AA05971							
Arsenic							
MB	0.100			µg/kg			
Barium							
MB	-0.003			µg/kg			
Cadmium							
MB	0.016			µg/kg			
Copper							
MB	0.067			µg/kg			
Lead							
MB	0.042			µg/kg			
Nickel							
MB	0.063			µg/kg			
Selenium							
MB	0.010			µg/kg			
Silver							
MB	0.137			µg/kg			
Zinc							
MB	-0.586			µg/kg			
AA05973							
Arsenic							
LCS	87.769		90	µg/kg	97.521	80 - 120	
Barium							
LCS	89.427		90	µg/kg	99.363	80 - 120	
Cadmium							
LCS	87.895		90	µg/kg	97.661	80 - 120	
Copper							



Division of Environmental Testing

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4653 Table Mountain Drive Golden, CO 80403 303-277-9310 reports@s2scientific.com

Project Manager : Mikayla Axtell
Project Name : 2402267
Project Number : N/A

Sample ID	Customer ID	Analyte Name Analysis Start	Dilution	Result	Units	Reporting Limit	Method Reference
LCS	97.804	µg/kg	90	108.67	80 - 120		
Lead							
LCS	100.124	µg/kg	90	111.25	80 - 120		
Nickel							
LCS	90.992	µg/kg	90	101.10	80 - 120		
Selenium							
LCS	88.474	µg/kg	90	98.304	80 - 120		
Silver							
LCS	106.140	µg/kg	90	117.93	80 - 120		
Zinc							
LCS	91.630	µg/kg	90	101.81	80 - 120		
AA05974							
Arsenic							
LCS	89.236	µg/kg	90	99.151	80 - 120		
Barium							
LCS	87.469	µg/kg	90	97.188	80 - 120		
Cadmium							
LCS	86.995	µg/kg	90	96.661	80 - 120		
Copper							
LCS	92.304	µg/kg	90	102.56	80 - 120		
Lead							
LCS	80.221	µg/kg	90	89.134	80 - 120		
Nickel							
LCS	91.083	µg/kg	90	101.20	80 - 120		
Selenium							
LCS	87.418	µg/kg	90	97.131	80 - 120		
Silver							
LCS	81.125	µg/kg	90	90.139	80 - 120		
Zinc							
LCS	90.745	µg/kg	90	100.83	80 - 120		



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Project Name : 2402267
Project Number : N/A

Sample ID	Customer ID	Analyte Name Analysis Start	Dilution	Result	Units	Reporting Limit	Method Reference
Arsenic							
DUP	2.121	25.000	µg/kg	2.133		0.56417	0 - 15
Matrix Spike	10.394		mg/kg	10.000	2.133	82.610	
Barium							
DUP	75.760	25.000	µg/kg	72.329		4.6337	0 - 15
Matrix Spike	86.455		mg/kg	10.000	72.329	141.26	
Cadmium							
DUP	0.215	1.000	µg/kg	0.200		7.2289	0 - 15
Matrix Spike	8.843		mg/kg	10.000	0.200	86.430	
Copper							
DUP	7.848	25.000	µg/kg	7.661		2.4115	0 - 15
Matrix Spike	16.602		mg/kg	10.000	7.661	89.410	
Lead							
DUP	21.485	25.000	µg/kg	23.944		10.826	0 - 15
Matrix Spike	34.652		mg/kg	10.000	23.944	107.08	
Nickel							
DUP	3.950	25.000	µg/kg	3.906		1.1202	0 - 15
Matrix Spike	12.538		mg/kg	10.000	3.906	86.320	
Selenium							
DUP	2.424	25.000	µg/kg	2.242		7.8011	0 - 15
Matrix Spike	12.316		mg/kg	10.000	2.242	100.74	
Silver							
DUP	<0.250	25.000	µg/kg	<0.250			
Matrix Spike	8.405		mg/kg	10.000	<0.250	84.050	
Zinc							
DUP	32.676	25.000	µg/kg	34.794		6.2783	0 - 15
Matrix Spike	46.038		mg/kg	10.000	34.794	112.44	
AA06098							
Arsenic							
MB	0.319		µg/kg				



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Project Manager : Mikayla Axtell
Project Name : 2402267
Project Number : N/A

Sample ID	Customer ID	Analyte Name Analysis Start	Dilution	Result	Units	Reporting Limit	Method Reference
Barium							
MB	0.425	µg/kg					
Cadmium							
MB	0.313	µg/kg					
Copper							
MB	0.410	µg/kg					
Lead							
MB	0.341	µg/kg					
Nickel							
MB	0.426	µg/kg					
Selenium							
MB	0.189	µg/kg					
Silver							
MB	1.313	µg/kg					
Zinc							
MB	-0.819	µg/kg					
AA06100							
Arsenic							
LCS	85.188	µg/kg	90	94.653		80 - 120	
Barium							
LCS	87.495	µg/kg	90	97.217		80 - 120	
Cadmium							
LCS	88.914	µg/kg	90	98.793		80 - 120	
Copper							
LCS	88.364	µg/kg	90	98.182		80 - 120	
Lead							
LCS	88.322	µg/kg	90	98.136		80 - 120	
Nickel							
LCS	86.867	µg/kg	90	96.519		80 - 120	
Selenium							



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Project Manager : Mikayla Axtell
Project Name : 2402267
Project Number : N/A

Sample ID	Customer ID	Analyte Name Analysis Start	Dilution	Result	Units	Reporting Limit	Method Reference
LCS	89.124	µg/kg	90	99.027	80 - 120		
Silver							
LCS	83.701	µg/kg	90	93.001	80 - 120		
Zinc							
LCS	89.584	µg/kg	90	99.538	80 - 120		
AA06101							
Arsenic							
LCS	84.282	µg/kg	90	93.647	80 - 120		
Barium							
LCS	89.001	µg/kg	90	98.890	80 - 120		
Cadmium							
LCS	89.416	µg/kg	90	99.351	80 - 120		
Copper							
LCS	84.240	µg/kg	90	93.600	80 - 120		
Lead							
LCS	91.898	µg/kg	90	102.11	80 - 120		
Nickel							
LCS	82.335	µg/kg	90	91.483	80 - 120		
Selenium							
LCS	86.523	µg/kg	90	96.137	80 - 120		
Silver							
LCS	81.928	µg/kg	90	91.031	80 - 120		
Zinc							
LCS	87.775	µg/kg	90	97.528	80 - 120		



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Project Manager : Mikayla Axtell
Project Name : 2402267
Project Number : N/A

Sample ID	Customer ID	Analyte Name Analysis Start	Dilution	Result	Units	Reporting Limit	Method Reference
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Qualifier	Explanation
H1	Sample received outside of regulatory holding time.
H2	Sample analyzed outside of regulatory holding time due to a laboratory error.
P1	Sample received outside temperature requirements, 0-6°C.
P2	Sample received unpreserved.
P3	Broken or leaking sample container.
P4	Sample improperly collected
P5	Sample improperly preserved
B	The same analyte is found in the associated blank
B1	Blank failed high, indicating possible high bias in sample results.
B2	Blank failed low, indicating possible low bias in sample results.
MS	Matrix Spike / Matrix Spike Duplicate recovery and/or RPD limit exceeded, indicating potential matrix interference.
QC	Associated batch quality control was outside the acceptable range
D1	Duplicate RPD limit exceeded due to low sample concentration.
D2	Duplicate RPD limit exceeded due to matrix interference.
S	Surrogate recovery failed, indicating potential matrix interference.
RL1	Reporting limits raised due to matrix interference.
RL2	Reporting limits raised due to limited sample.
U	Sample result less than method detection limit.
J	Sample result less than reporting limit but higher than method detection limit.
EST	The concentration indicated has been estimated due to high analyte content
E	Electronic loss or corruption of data.
I	Subcontracted sample



Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
04/08/24 16:24

Notes and Definitions

- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
- R-05 The sample was diluted due to the presence of high levels of non-target analytes resulting in elevated reporting limits.
- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
- QLCS-01 The spike recovery was outside acceptance limits for this analyte indicating a potential high bias. The corresponding samples did not exhibit concentrations above reporting level for this analyte. Data quality is not affected.
- E The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
- 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