

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

November 25, 2024

Paul Henchan

Fremont Environmental

PO Box 1289


Wellington, CO 80549

RE: Noble - Barton C 15-29

Work Order #2410613

Enclosed are the results of analyses for samples received by Summit Scientific on 10/31/24 16:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Jacob Wood For Paul Shrewsbury

President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Barton C 15-29

Project Number: UWRWE-A2428-ABN

Project Manager: Paul Henchan

Reported:
11/25/24 10:02

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL02 3 FT	2410613-01	Soil	10/31/24 00:00	10/31/24 16:50
FL03 3 FT	2410613-02	Soil	10/31/24 00:00	10/31/24 16:50
FL04 3 FT	2410613-03	Soil	10/31/24 00:00	10/31/24 16:50
BKG 1-0.5 FT	2410613-04	Soil	10/31/24 00:00	10/31/24 16:50
FL06 3 FT	2410613-05	Soil	10/31/24 00:00	10/31/24 16:50
FL07 3 FT	2410613-06	Soil	10/31/24 00:00	10/31/24 16:50
BKG 1 3FT	2410613-07	Soil	10/31/24 00:00	10/31/24 16:50
BKG 2 3FT	2410613-08	Soil	10/31/24 00:00	10/31/24 16:50
BKG 3 4FT	2410613-09	Soil	10/31/24 00:00	10/31/24 16:50
BKG 4 3FT	2410613-10	Soil	10/31/24 00:00	10/31/24 16:50
BKG 5 5FT	2410613-11	Soil	10/31/24 00:00	10/31/24 16:50
BKG 2-0.5 FT	2410613-12	Soil	10/31/24 00:00	10/31/24 16:50
BKG 3-0.5 FT	2410613-13	Soil	10/31/24 00:00	10/31/24 16:50
BKG 4-0.5 FT	2410613-14	Soil	10/31/24 00:00	10/31/24 16:50
BKG 5-0.5 FT	2410613-15	Soil	10/31/24 00:00	10/31/24 16:50

Summit Scientific

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2410613

Client: Fremont Environmental		Project Manager:		Send Data To:		Send Invoice To:														
Address: 8305 6th St.		E-Mail: Chevron Dist. List, paulH, ethanB, joshB (@fremontenv.com)		Company: Chevron		Project Name/Location:														
City/State/Zip: Wellington, CO				AFE#:																
Phone: 83-514-7730		Project Name: Noble - Barton C 15-29		PO/Billing Codes: UWRWE-2428-ABN																
Sampler Name: Josh Belonger		Project Number: C023-263		Contact: Dan Peterson																
ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative	Matrix	Analysis Requested	Special Instructions												
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	Full Table 915-1 (Soil)	Full Table 915-1 (GW)	NBTEX, TMBs	TPH (C6-C36)	PAHs	SAR, EC, pH, Boron	Table 915-1 Metals	TDS, Chloride, Sulfate
1	FL02 3 Ft	10/31		2			X			X			X							
2	FL03 3 Ft			2			X			X			X							
3	FL04 3 Ft			2			X			X			X							
4	FL05 3 Ft BKG1-0.5 Ft			2			X			X								X	X	
5	FL06 3 Ft			2			X			X			X							
6	FL07 3 Ft			2			X			X			X							
7	BKG 1 3 Ft			2			X			X								X	X	
8	BKG 2 3 Ft			2			X			X								X	X	
9	BKG 3 4 Ft			2			X			X								X	X	
10	BKG 4 3 Ft			2			X			X								X	X	
11	BKG 5 5 Ft			2			X			X								X	X	
12	BKG2-0.5 Ft			2			X			X								X	X	
13	BKG3-0.5 Ft			2			X			X								X	X	
14	BKG4-0.5 Ft			2			X			X								X	X	
15	BKG5-0.5 Ft			2			X			X								X	X	
Relinquished by: [Signature]		Date/Time: 10/31 1400		Received by: Summit North		Date/Time: 10/31 1400		TAT Business Days		Field DO		Notes: Dist. Report to parties circled in the email line(s) only.								
Relinquished by: [Signature]		Date/Time: 10/31 24 1630		Received by: [Signature]		Date/Time: 10/31 24 1630		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: 5.7		Corrected Temperature: 6		IR gun #:		1		HNO3 lot #:												

S₂

Sample Receipt Checklist

S2 Work Order# 2410613Client: TremontClient Project ID: Noble-Barton C19-29Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐Airbill #:

<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Matrix (Check all that apply)

Air ☐Soil/Solid ☒Water ☐Other ☐

Temp (°C)

9.7

Thermometer #

1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	OUTSIDE
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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

10/31/24
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Barton C 15-29
Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

FL02 3 FT
2410613-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHK0214	11/05/24	11/06/24	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: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0409	102 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0397	99.3 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0400	100 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHK0216	11/05/24	11/08/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	9.19	73.5 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Reported:
11/25/24 10:02

FL02 3 FT
2410613-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK0183	11/05/24	11/05/24	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: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0204	61.3 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0199	59.8 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHK0404	11/08/24	11/12/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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FL02 3 FT
2410613-01 (Soil)

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Total Metals by EPA 6020B

Arsenic	7.45	0.200	mg/kg dry	1	BHK0619	11/13/24	11/21/24	EPA 6020B
Barium	186	0.400	"	"	"	"	"	"
Cadmium	0.351	0.200	"	"	"	"	"	"
Copper	20.1	0.400	"	"	"	"	"	"
Lead	14.6	0.200	"	"	"	"	"	"
Nickel	3.55	0.400	"	"	"	"	"	"
Silver	0.0631	0.0200	"	"	"	"	"	"
Zinc	74.9	0.400	"	"	"	"	"	"
Selenium	0.352	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0661	11/13/24	11/19/24	EPA 7196A	

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

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	49.0	0.0500	mg/L dry	1	BHK0500	11/11/24	11/13/24	EPA 6020B	
Magnesium	25.6	0.0500	"	"	"	"	"	"	
Sodium	224	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.46	0.00100	units	1	BHK0754	11/14/24	11/14/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Number: UWRWE-A2428-ABN
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11/25/24 10:02

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2410613-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	76.1	%	1	BHK0277	11/06/24	11/07/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.17	0.0100	mmhos/cm	1	BHK0523	11/11/24	11/13/24	EPA 120.1	

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

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.25		pH Units	1	BHK0524	11/11/24	11/13/24	EPA 9045D	

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Reported:
11/25/24 10:02

FL03 3 FT
2410613-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHK0214	11/05/24	11/06/24	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: **10/31/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0407	102 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0398	99.4 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0395	98.8 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHK0216	11/05/24	11/08/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	11.5	91.7 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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PAH by EPA Method 8270D SIM

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BHK0183	11/05/24	11/05/24	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: **10/31/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0234	70.3 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0242	72.5 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHK0404	11/08/24	11/12/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

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Project Manager: Paul Henchan

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11/25/24 10:02

FL03 3 FT
2410613-02 (Soil)

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Total Metals by EPA 6020B

Arsenic	4.32	0.200	mg/kg dry	1	BHK0619	11/13/24	11/21/24	EPA 6020B
Barium	202	0.400	"	"	"	"	"	"
Cadmium	0.211	0.200	"	"	"	"	"	"
Copper	17.9	0.400	"	"	"	"	"	"
Lead	10.4	0.200	"	"	"	"	"	"
Nickel	2.40	0.400	"	"	"	"	"	"
Silver	0.0630	0.0200	"	"	"	"	"	"
Zinc	64.6	0.400	"	"	"	"	"	"
Selenium	0.562	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0661	11/13/24	11/19/24	EPA 7196A	

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

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	248	0.0500	mg/L dry	1	BHK0500	11/11/24	11/13/24	EPA 6020B	
Magnesium	41.3	0.0500	"	"	"	"	"	"	
Sodium	300	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.65	0.00100	units	1	BHK0754	11/14/24	11/14/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/31/24 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: Noble - Barton C 15-29
Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

FL03 3 FT
2410613-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	74.5	%	1	BHK0277	11/06/24	11/07/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.99	0.0100	mmhos/cm	1	BHK0523	11/11/24	11/13/24	EPA 120.1	

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

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.12		pH Units	1	BHK0524	11/11/24	11/13/24	EPA 9045D	

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Project: Noble - Barton C 15-29
Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

FL04 3 FT
2410613-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHK0214	11/05/24	11/06/24	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: **10/31/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0431	108 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0401	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0404	101 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHK0216	11/05/24	11/09/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	9.08	72.6 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Wellington CO, 80549

Project: Noble - Barton C 15-29
Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

FL04 3 FT
2410613-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK0183	11/05/24	11/05/24	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: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0144	43.1 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0157	47.1 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	3.72	2.00	mg/L	1	BHK0404	11/08/24	11/12/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/31/24 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: Noble - Barton C 15-29
Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

FL04 3 FT
2410613-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	6.66	0.200	mg/kg dry	1	BHK0619	11/13/24	11/21/24	EPA 6020B	
Barium	196	0.400	"	"	"	"	"	"	
Cadmium	0.287	0.200	"	"	"	"	"	"	
Copper	24.6	0.400	"	"	"	"	"	"	
Lead	13.9	0.200	"	"	"	"	"	"	
Nickel	2.83	0.400	"	"	"	"	"	"	
Silver	0.0986	0.0200	"	"	"	"	"	"	
Zinc	80.7	0.400	"	"	"	"	"	"	
Selenium	0.632	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 10/31/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0661	11/13/24	11/19/24	EPA 7196A	

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

Date Sampled: 10/31/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	78.3	0.0500	mg/L dry	1	BHK0500	11/11/24	11/13/24	EPA 6020B	
Magnesium	26.8	0.0500	"	"	"	"	"	"	
Sodium	284	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 10/31/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	7.07	0.00100	units	1	BHK0754	11/14/24	11/14/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 10/31/24 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: Noble - Barton C 15-29
Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

FL04 3 FT
2410613-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	67.2	%	1	BHK0277	11/06/24	11/07/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.28	0.0100	mmhos/cm	1	BHK0523	11/11/24	11/13/24	EPA 120.1	

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

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.55		pH Units	1	BHK0524	11/11/24	11/13/24	EPA 9045D	

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PO Box 1289
Wellington CO, 80549

Project: Noble - Barton C 15-29
Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

BKG 1-0.5 FT
2410613-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	6.68	2.00		mg/L	1	BHK0404	11/08/24	11/12/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	4.17	0.200		mg/kg dry	1	BHK0619	11/13/24	11/21/24	EPA 6020B	
Barium	133	0.400		"	"	"	"	"	"	
Cadmium	0.252	0.200		"	"	"	"	"	"	
Copper	14.8	0.400		"	"	"	"	"	"	
Lead	10.3	0.200		"	"	"	"	"	"	
Nickel	2.42	0.400		"	"	"	"	"	"	
Silver	0.0669	0.0200		"	"	"	"	"	"	
Zinc	55.7	0.400		"	"	"	"	"	"	
Selenium	0.458	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHK0661	11/13/24	11/19/24	EPA 7196A	

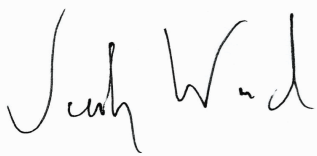
Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	103	0.0500		mg/L dry	1	BHK0500	11/11/24	11/14/24	EPA 6020B	
Magnesium	16.6	0.0500		"	"	"	"	"	"	
Sodium	199	0.0500		"	"	"	"	"	"	

Calculated Analysis

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Barton C 15-29
Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

BKG 1-0.5 FT
2410613-04 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.80	0.00100	units	1	BHK0754	11/14/24	11/14/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.1		%	1	BHK0277	11/06/24	11/07/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.22	0.0100	mmhos/cm	1	BHK0523	11/11/24	11/13/24	EPA 120.1	

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

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.17		pH Units	1	BHK0524	11/11/24	11/13/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Barton C 15-29
Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

FL06 3 FT
2410613-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHK0214	11/05/24	11/06/24	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: **10/31/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0406	102 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0397	99.2 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0402	101 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHK0216	11/05/24	11/09/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	11.4	91.0 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Wellington CO, 80549

Project: Noble - Barton C 15-29
Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

FL06 3 FT
2410613-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK0183	11/05/24	11/05/24	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: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0135	40.6 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0144	43.3 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHK0404	11/08/24	11/12/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/31/24 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: Noble - Barton C 15-29
Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

FL06 3 FT
2410613-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	4.45	0.200	mg/kg dry	1	BHK0619	11/13/24	11/21/24	EPA 6020B
Barium	141	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	15.0	0.400	"	"	"	"	"	"
Lead	8.93	0.200	"	"	"	"	"	"
Nickel	2.40	0.400	"	"	"	"	"	"
Silver	0.0507	0.0200	"	"	"	"	"	"
Zinc	51.9	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0661	11/13/24	11/19/24	EPA 7196A	

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

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	45.5	0.0500	mg/L dry	1	BHK0500	11/11/24	11/14/24	EPA 6020B	
Magnesium	10.7	0.0500	"	"	"	"	"	"	
Sodium	80.0	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.77	0.00100	units	1	BHK0754	11/14/24	11/14/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
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Project: Noble - Barton C 15-29
Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

FL06 3 FT
2410613-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	74.0			%	1	BHK0277	11/06/24	11/07/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.531	0.0100		mmhos/cm	1	BHK0523	11/11/24	11/13/24	EPA 120.1	

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

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.54			pH Units	1	BHK0524	11/11/24	11/13/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Barton C 15-29
Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

FL07 3 FT
2410613-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHK0214	11/05/24	11/07/24	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: **10/31/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0411	103 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0401	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0380	95.1 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHK0216	11/05/24	11/09/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	10.3	82.3 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Barton C 15-29
Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

FL07 3 FT
2410613-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK0183	11/05/24	11/06/24	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: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0144	43.2 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0164	49.2 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHK0404	11/08/24	11/12/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/31/24 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: Noble - Barton C 15-29
Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

FL07 3 FT
2410613-06 (Soil)

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Total Metals by EPA 6020B

Arsenic	4.39	0.200	mg/kg dry	1	BHK0619	11/13/24	11/21/24	EPA 6020B
Barium	226	0.400	"	"	"	"	"	"
Cadmium	0.231	0.200	"	"	"	"	"	"
Copper	18.4	0.400	"	"	"	"	"	"
Lead	11.0	0.200	"	"	"	"	"	"
Nickel	2.59	0.400	"	"	"	"	"	"
Silver	0.0746	0.0200	"	"	"	"	"	"
Zinc	58.3	0.400	"	"	"	"	"	"
Selenium	0.430	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 10/31/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0661	11/13/24	11/19/24	EPA 7196A	

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

Date Sampled: 10/31/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	16.0	0.0500	mg/L dry	1	BHK0500	11/11/24	11/14/24	EPA 6020B	
Magnesium	8.30	0.0500	"	"	"	"	"	"	
Sodium	235	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 10/31/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	11.9	0.00100	units	1	BHK0754	11/14/24	11/14/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 10/31/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Barton C 15-29
Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

FL07 3 FT
2410613-06 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	71.4	%	1	BHK0277	11/06/24	11/07/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.873	0.0100	mmhos/cm	1	BHK0523	11/11/24	11/13/24	EPA 120.1	

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

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.93		pH Units	1	BHK0524	11/11/24	11/13/24	EPA 9045D	

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Project: Noble - Barton C 15-29
Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

BKG 1 3FT
2410613-07 (Soil)

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Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHK0404	11/08/24	11/12/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	4.85	0.200	mg/kg dry	1	BHK0619	11/13/24	11/21/24	EPA 6020B	
Barium	110	0.400	"	"	"	"	"	"	
Cadmium	0.232	0.200	"	"	"	"	"	"	
Copper	18.4	0.400	"	"	"	"	"	"	
Lead	10.9	0.200	"	"	"	"	"	"	
Nickel	2.63	0.400	"	"	"	"	"	"	
Silver	0.0748	0.0200	"	"	"	"	"	"	
Zinc	64.0	0.400	"	"	"	"	"	"	
Selenium	0.307	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0661	11/13/24	11/19/24	EPA 7196A	

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

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	130	0.0500	mg/L dry	1	BHK0500	11/11/24	11/14/24	EPA 6020B	
Magnesium	27.1	0.0500	"	"	"	"	"	"	
Sodium	179	0.0500	"	"	"	"	"	"	

Calculated Analysis

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Project: Noble - Barton C 15-29
Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

BKG 1 3FT
2410613-07 (Soil)

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Calculated Analysis

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.73	0.00100	units	1	BHK0754	11/14/24	11/14/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	73.8		%	1	BHK0277	11/06/24	11/07/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.22	0.0100	mmhos/cm	1	BHK0523	11/11/24	11/13/24	EPA 120.1	

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

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.01		pH Units	1	BHK0524	11/11/24	11/13/24	EPA 9045D	

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Project: Noble - Barton C 15-29
Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

BKG 2 3FT
2410613-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHK0404	11/08/24	11/12/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	2.81	0.200	mg/kg dry	1	BHK0619	11/13/24	11/21/24	EPA 6020B	
Barium	79.8	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	8.94	0.400	"	"	"	"	"	"	
Lead	6.72	0.200	"	"	"	"	"	"	
Nickel	1.94	0.400	"	"	"	"	"	"	
Silver	0.0448	0.0200	"	"	"	"	"	"	
Zinc	35.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0661	11/13/24	11/19/24	EPA 7196A	

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

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	13.8	0.0500	mg/L dry	1	BHK0500	11/11/24	11/14/24	EPA 6020B	
Magnesium	5.30	0.0500	"	"	"	"	"	"	
Sodium	193	0.0500	"	"	"	"	"	"	

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Project: Noble - Barton C 15-29
Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

BKG 2 3FT
2410613-08 (Soil)

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Calculated Analysis

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	11.2	0.00100	units	1	BHK0754	11/14/24	11/14/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	76.8		%	1	BHK0277	11/06/24	11/07/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.704	0.0100	mmhos/cm	1	BHK0523	11/11/24	11/13/24	EPA 120.1	

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

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.82		pH Units	1	BHK0524	11/11/24	11/13/24	EPA 9045D	

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Project: Noble - Barton C 15-29
Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

BKG 3 4FT
2410613-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHK0404	11/08/24	11/12/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	4.16	0.200	mg/kg dry	1	BHK0619	11/13/24	11/21/24	EPA 6020B	
Barium	123	0.400	"	"	"	"	"	"	
Cadmium	0.247	0.200	"	"	"	"	"	"	
Copper	16.5	0.400	"	"	"	"	"	"	
Lead	10.8	0.200	"	"	"	"	"	"	
Nickel	2.17	0.400	"	"	"	"	"	"	
Silver	0.0694	0.0200	"	"	"	"	"	"	
Zinc	57.8	0.400	"	"	"	"	"	"	
Selenium	0.501	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0661	11/13/24	11/19/24	EPA 7196A	

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

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	169	0.0500	mg/L dry	1	BHK0500	11/11/24	11/14/24	EPA 6020B	
Magnesium	52.0	0.0500	"	"	"	"	"	"	
Sodium	564	0.0500	"	"	"	"	"	"	

Calculated Analysis

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Project: Noble - Barton C 15-29
Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

BKG 3 4FT
2410613-09 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	9.73	0.00100	units	1	BHK0754	11/14/24	11/14/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.7		%	1	BHK0277	11/06/24	11/07/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.71	0.0100	mmhos/cm	1	BHK0523	11/11/24	11/13/24	EPA 120.1	

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

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.13		pH Units	1	BHK0524	11/11/24	11/13/24	EPA 9045D	

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Project: Noble - Barton C 15-29
Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

BKG 4 3FT
2410613-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHK0404	11/08/24	11/12/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	2.70	0.200	mg/kg dry	1	BHK0619	11/13/24	11/21/24	EPA 6020B	
Barium	63.8	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	6.16	0.400	"	"	"	"	"	"	
Lead	5.16	0.200	"	"	"	"	"	"	
Nickel	1.83	0.400	"	"	"	"	"	"	
Silver	0.0240	0.0200	"	"	"	"	"	"	
Zinc	24.3	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0661	11/13/24	11/19/24	EPA 7196A	

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

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	22.2	0.0500	mg/L dry	1	BHK0500	11/11/24	11/14/24	EPA 6020B	
Magnesium	15.6	0.0500	"	"	"	"	"	"	
Sodium	107	0.0500	"	"	"	"	"	"	

Summit Scientific

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Project: Noble - Barton C 15-29
Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

BKG 4 3FT
2410613-10 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.26	0.00100	units	1	BHK0754	11/14/24	11/14/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	79.3		%	1	BHK0277	11/06/24	11/07/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.536	0.0100	mmhos/cm	1	BHK0523	11/11/24	11/13/24	EPA 120.1	

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

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.53		pH Units	1	BHK0524	11/11/24	11/13/24	EPA 9045D	

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Project: Noble - Barton C 15-29
Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

BKG 5 5FT
2410613-11 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHK0404	11/08/24	11/12/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	5.79	0.200		mg/kg dry	1	BHK0619	11/13/24	11/21/24	EPA 6020B	
Barium	213	0.400		"	"	"	"	"	"	
Cadmium	0.384	0.200		"	"	"	"	"	"	
Copper	17.5	0.400		"	"	"	"	"	"	
Lead	11.8	0.200		"	"	"	"	"	"	
Nickel	3.18	0.400		"	"	"	"	"	"	
Silver	0.0925	0.0200		"	"	"	"	"	"	
Zinc	78.5	0.400		"	"	"	"	"	"	
Selenium	0.359	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHK0661	11/13/24	11/19/24	EPA 7196A	

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

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	59.3	0.0500		mg/L dry	1	BHK0500	11/11/24	11/14/24	EPA 6020B	
Magnesium	7.50	0.0500		"	"	"	"	"	"	
Sodium	162	0.0500		"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Barton C 15-29
Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

BKG 5 5FT
2410613-11 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.27	0.00100	units	1	BHK0754	11/14/24	11/14/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	72.5		%	1	BHK0277	11/06/24	11/07/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.615	0.0100	mmhos/cm	1	BHK0523	11/11/24	11/13/24	EPA 120.1	

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

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.79		pH Units	1	BHK0524	11/11/24	11/13/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Barton C 15-29
Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

BKG 2-0.5 FT
2410613-12 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	5.54	2.00	mg/L	1	BHK0404	11/08/24	11/12/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	5.18	0.200	mg/kg dry	1	BHK0619	11/13/24	11/21/24	EPA 6020B	
Barium	189	0.400	"	"	"	"	"	"	
Cadmium	0.220	0.200	"	"	"	"	"	"	
Copper	20.1	0.400	"	"	"	"	"	"	
Lead	11.9	0.200	"	"	"	"	"	"	
Nickel	2.72	0.400	"	"	"	"	"	"	
Silver	0.0827	0.0200	"	"	"	"	"	"	
Zinc	70.9	0.400	"	"	"	"	"	"	
Selenium	0.532	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0661	11/13/24	11/19/24	EPA 7196A	

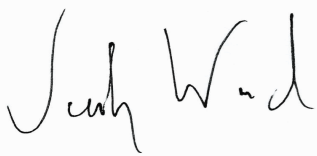
Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	149	0.0500	mg/L dry	1	BHK0500	11/11/24	11/14/24	EPA 6020B	
Magnesium	38.6	0.0500	"	"	"	"	"	"	
Sodium	907	0.0500	"	"	"	"	"	"	

Calculated Analysis

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Barton C 15-29
Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

BKG 2-0.5 FT
2410613-12 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	17.1	0.00100	units	1	BHK0754	11/14/24	11/14/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	72.4		%	1	BHK0277	11/06/24	11/07/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.21	0.0100	mmhos/cm	1	BHK0523	11/11/24	11/13/24	EPA 120.1	

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

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.44		pH Units	1	BHK0524	11/11/24	11/13/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Barton C 15-29
Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

BKG 3-0.5 FT
2410613-13 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHK0404	11/08/24	11/12/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	3.76	0.200		mg/kg dry	1	BHK0619	11/13/24	11/21/24	EPA 6020B	
Barium	124	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
Copper	11.9	0.400		"	"	"	"	"	"	
Lead	8.08	0.200		"	"	"	"	"	"	
Nickel	2.26	0.400		"	"	"	"	"	"	
Silver	0.0562	0.0200		"	"	"	"	"	"	
Zinc	46.6	0.400		"	"	"	"	"	"	
Selenium	0.460	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHK0661	11/13/24	11/19/24	EPA 7196A	

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

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	61.4	0.0500		mg/L dry	1	BHK0500	11/11/24	11/14/24	EPA 6020B	
Magnesium	22.0	0.0500		"	"	"	"	"	"	
Sodium	480	0.0500		"	"	"	"	"	"	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Barton C 15-29
Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

BKG 3-0.5 FT
2410613-13 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	13.4	0.00100	units	1	BHK0754	11/14/24	11/14/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.2		%	1	BHK0277	11/06/24	11/07/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.85	0.0100	mmhos/cm	1	BHK0523	11/11/24	11/13/24	EPA 120.1	

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

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.18		pH Units	1	BHK0524	11/11/24	11/13/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Barton C 15-29
Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

BKG 4-0.5 FT
2410613-14 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	2.68	2.00	mg/L	1	BHK0404	11/08/24	11/12/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	4.73	0.200	mg/kg dry	1	BHK0619	11/13/24	11/21/24	EPA 6020B	
Barium	112	0.400	"	"	"	"	"	"	
Cadmium	0.228	0.200	"	"	"	"	"	"	
Copper	11.6	0.400	"	"	"	"	"	"	
Lead	9.27	0.200	"	"	"	"	"	"	
Nickel	2.20	0.400	"	"	"	"	"	"	
Silver	0.0501	0.0200	"	"	"	"	"	"	
Zinc	43.1	0.400	"	"	"	"	"	"	
Selenium	0.345	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0661	11/13/24	11/19/24	EPA 7196A	

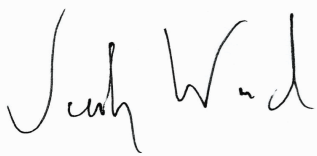
Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	65.8	0.0500	mg/L dry	1	BHK0500	11/11/24	11/14/24	EPA 6020B	
Magnesium	27.7	0.0500	"	"	"	"	"	"	
Sodium	219	0.0500	"	"	"	"	"	"	

Calculated Analysis

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Barton C 15-29
Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

BKG 4-0.5 FT
2410613-14 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.71	0.00100	units	1	BHK0754	11/14/24	11/14/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.0		%	1	BHK0277	11/06/24	11/07/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.23	0.0100	mmhos/cm	1	BHK0523	11/11/24	11/13/24	EPA 120.1	

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

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.57		pH Units	1	BHK0524	11/11/24	11/13/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Barton C 15-29
Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

BKG 5-0.5 FT
2410613-15 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	2.82	2.00		mg/L	1	BHK0404	11/08/24	11/12/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	3.75	0.200		mg/kg dry	1	BHK0619	11/13/24	11/21/24	EPA 6020B	
Barium	121	0.400		"	"	"	"	"	"	
Cadmium	0.254	0.200		"	"	"	"	"	"	
Copper	17.3	0.400		"	"	"	"	"	"	
Lead	11.4	0.200		"	"	"	"	"	"	
Nickel	2.29	0.400		"	"	"	"	"	"	
Silver	0.0714	0.0200		"	"	"	"	"	"	
Zinc	58.0	0.400		"	"	"	"	"	"	
Selenium	0.455	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHK0661	11/13/24	11/19/24	EPA 7196A	

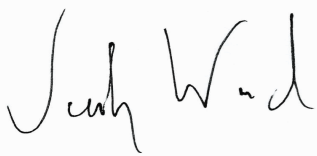
Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	55.2	0.0500		mg/L dry	1	BHK0500	11/11/24	11/14/24	EPA 6020B	
Magnesium	60.3	0.0500		"	"	"	"	"	"	
Sodium	745	0.0500		"	"	"	"	"	"	

Calculated Analysis

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Barton C 15-29
Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

BKG 5-0.5 FT
2410613-15 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	16.5	0.00100	units	1	BHK0754	11/14/24	11/14/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	78.9		%	1	BHK0277	11/06/24	11/07/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.94	0.0100	mmhos/cm	1	BHK0523	11/11/24	11/13/24	EPA 120.1	

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

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.60		pH Units	1	BHK0524	11/11/24	11/13/24	EPA 9045D	

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Project: Noble - Barton C 15-29
Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BHK0214 - EPA 5030 Soil MS

Blank (BHK0214-BLK1)

Prepared & Analyzed: 11/05/24

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	0.0417	"	0.0400	104	50-150
Surrogate: Toluene-d8	0.0403	"	0.0400	101	50-150
Surrogate: 4-Bromofluorobenzene	0.0399	"	0.0400	99.8	50-150

LCS (BHK0214-BS1)

Prepared & Analyzed: 11/05/24

Benzene	0.0990	0.0020	mg/kg	0.100	99.0	70-130
Toluene	0.0966	0.0050	"	0.100	96.6	70-130
Ethylbenzene	0.0967	0.0050	"	0.100	96.7	70-130
m,p-Xylene	0.199	0.010	"	0.200	99.4	70-130
o-Xylene	0.0981	0.0050	"	0.100	98.1	70-130
1,2,4-Trimethylbenzene	0.0959	0.0050	"	0.100	95.9	70-130
1,3,5-Trimethylbenzene	0.0980	0.0050	"	0.100	98.0	70-130
Naphthalene	0.0889	0.0038	"	0.100	88.9	70-130

Surrogate: 1,2-Dichloroethane-d4	0.0403	"	0.0400	101	50-150
Surrogate: Toluene-d8	0.0393	"	0.0400	98.2	50-150
Surrogate: 4-Bromofluorobenzene	0.0398	"	0.0400	99.6	50-150

Matrix Spike (BHK0214-MS1)

Source: 2410308-01

Prepared & Analyzed: 11/05/24

Benzene	0.0977	0.0020	mg/kg	0.100	ND	97.7	70-130
Toluene	0.0963	0.0050	"	0.100	ND	96.3	70-130
Ethylbenzene	0.0940	0.0050	"	0.100	ND	94.0	70-130
m,p-Xylene	0.192	0.010	"	0.200	ND	96.0	70-130
o-Xylene	0.0932	0.0050	"	0.100	ND	93.2	70-130
1,2,4-Trimethylbenzene	0.0896	0.0050	"	0.100	ND	89.6	70-130
1,3,5-Trimethylbenzene	0.0912	0.0050	"	0.100	ND	91.2	70-130
Naphthalene	0.0862	0.0038	"	0.100	ND	86.2	70-130

Surrogate: 1,2-Dichloroethane-d4	0.0412	"	0.0400	103	50-150
Surrogate: Toluene-d8	0.0398	"	0.0400	99.5	50-150
Surrogate: 4-Bromofluorobenzene	0.0398	"	0.0400	99.5	50-150

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Barton C 15-29
Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

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

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

Batch BHK0214 - EPA 5030 Soil MS

Matrix Spike Dup (BHK0214-MSD1)	Source: 2410308-01			Prepared & Analyzed: 11/05/24						
Benzene	0.103	0.0020	mg/kg	0.100	ND	103	70-130	5.03	30	
Toluene	0.100	0.0050	"	0.100	ND	100	70-130	4.15	30	
Ethylbenzene	0.0969	0.0050	"	0.100	ND	96.9	70-130	3.02	30	
m,p-Xylene	0.197	0.010	"	0.200	ND	98.5	70-130	2.56	30	
o-Xylene	0.0963	0.0050	"	0.100	ND	96.3	70-130	3.20	30	
1,2,4-Trimethylbenzene	0.0900	0.0050	"	0.100	ND	90.0	70-130	0.401	30	
1,3,5-Trimethylbenzene	0.0925	0.0050	"	0.100	ND	92.5	70-130	1.37	30	
Naphthalene	0.0845	0.0038	"	0.100	ND	84.5	70-130	1.93	30	
Surrogate: 1,2-Dichloroethane-d4	0.0419		"	0.0400		105	50-150			
Surrogate: Toluene-d8	0.0400		"	0.0400		100	50-150			
Surrogate: 4-Bromofluorobenzene	0.0394		"	0.0400		98.4	50-150			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Barton C 15-29
Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BHK0216 - EPA 3550A

Blank (BHK0216-BLK1)

Prepared: 11/05/24 Analyzed: 11/08/24

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	12.6		"	12.5	101	30-150				

LCS (BHK0216-BS1)

Prepared: 11/05/24 Analyzed: 11/08/24

C10-C28 (DRO)	539	50	mg/kg	500	108	70-130				
Surrogate: o-Terphenyl	11.9		"	12.5	95.1	30-150				

Matrix Spike (BHK0216-MS1)

Source: 2410308-01

Prepared: 11/05/24 Analyzed: 11/08/24

C10-C28 (DRO)	528	50	mg/kg	500	17.5	102	70-130			
Surrogate: o-Terphenyl	12.5		"	12.5	99.7	30-150				

Matrix Spike Dup (BHK0216-MSD1)

Source: 2410308-01

Prepared: 11/05/24 Analyzed: 11/08/24

C10-C28 (DRO)	561	50	mg/kg	500	17.5	109	70-130	6.18	20	
Surrogate: o-Terphenyl	11.5		"	12.5	91.8	30-150				

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Project: Noble - Barton C 15-29
Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHK0183 - EPA 5030 Soil MS

Blank (BHK0183-BLK1)

Prepared & Analyzed: 11/05/24

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	"							
Surrogate: 2-Methylnaphthalene-d10	0.0224		"	0.0333		67.1	40-140			
Surrogate: Fluoranthene-d10	0.0213		"	0.0333		63.8	40-140			

LCS (BHK0183-BS1)

Prepared & Analyzed: 11/05/24

Acenaphthene	0.0237	0.00500	mg/kg	0.0333		71.1	40-140			
Anthracene	0.0244	0.00500	"	0.0333		73.3	40-140			
Benzo (a) anthracene	0.0249	0.00500	"	0.0333		74.7	40-140			
Benzo (a) pyrene	0.0235	0.00500	"	0.0333		70.4	40-140			
Benzo (b) fluoranthene	0.0230	0.00500	"	0.0333		69.0	40-140			
Benzo (k) fluoranthene	0.0221	0.00500	"	0.0333		66.2	40-140			
Chrysene	0.0251	0.00500	"	0.0333		75.4	40-140			
Dibenz (a,h) anthracene	0.0217	0.00500	"	0.0333		65.1	40-140			
Fluoranthene	0.0240	0.00500	"	0.0333		72.1	40-140			
Fluorene	0.0244	0.00500	"	0.0333		73.2	40-140			
Indeno (1,2,3-cd) pyrene	0.0224	0.00500	"	0.0333		67.2	40-140			
Pyrene	0.0279	0.00500	"	0.0333		83.7	40-140			
1-Methylnaphthalene	0.0227	0.00500	"	0.0333		68.2	40-140			
2-Methylnaphthalene	0.0259	0.00500	"	0.0333		77.8	40-140			
Surrogate: 2-Methylnaphthalene-d10	0.0232		"	0.0333		69.5	40-140			
Surrogate: Fluoranthene-d10	0.0244		"	0.0333		73.2	40-140			

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Project: Noble - Barton C 15-29
Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

PAH by EPA Method 8270D SIM - Quality Control

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

Batch BHK0183 - EPA 5030 Soil MS

Matrix Spike (BHK0183-MS1)				Source: 2410611-01				Prepared & Analyzed: 11/05/24				QM-01
Acenaphthene	0.0402	0.00500	mg/kg	0.0333	0.0368	10.3	40-140					QM-05
Anthracene	0.0220	0.00500	"	0.0333	ND	65.9	40-140					
Benzo (a) anthracene	0.0230	0.00500	"	0.0333	ND	68.9	40-140					
Benzo (a) pyrene	0.0186	0.00500	"	0.0333	ND	55.9	40-140					
Benzo (b) fluoranthene	0.0166	0.00500	"	0.0333	ND	49.9	40-140					
Benzo (k) fluoranthene	0.0150	0.00500	"	0.0333	ND	44.9	40-140					
Chrysene	0.0282	0.00500	"	0.0333	0.00717	63.0	40-140					
Dibenz (a,h) anthracene	0.0206	0.00500	"	0.0333	ND	61.8	40-140					
Fluoranthene	0.0200	0.00500	"	0.0333	0.00668	40.1	40-140					
Fluorene	0.0468	0.00500	"	0.0333	0.0431	11.3	40-140					QM-05
Indeno (1,2,3-cd) pyrene	0.0204	0.00500	"	0.0333	ND	61.1	40-140					
Pyrene	0.0249	0.00500	"	0.0333	0.00696	53.8	40-140					
1-Methylnaphthalene	3.00	0.00500	"	0.0333	0.394	NR	40-140					QM-4X
2-Methylnaphthalene	4.84	0.00500	"	0.0333	0.945	NR	40-140					QM-4X
Surrogate: 2-Methylnaphthalene-d10	0.0554		"	0.0333		166	40-140					QM-05
Surrogate: Fluoranthene-d10	0.0162		"	0.0333		48.6	40-140					

Matrix Spike Dup (BHK0183-MSD1)				Source: 2410611-01				Prepared & Analyzed: 11/05/24				QM-01
Acenaphthene	0.0424	0.00500	mg/kg	0.0333	0.0368	16.7	40-140	5.17	30			QM-05
Anthracene	0.0206	0.00500	"	0.0333	ND	61.9	40-140	6.25	30			
Benzo (a) anthracene	0.0238	0.00500	"	0.0333	ND	71.2	40-140	3.29	30			
Benzo (a) pyrene	0.0198	0.00500	"	0.0333	ND	59.3	40-140	5.89	30			
Benzo (b) fluoranthene	0.0194	0.00500	"	0.0333	ND	58.3	40-140	15.5	30			
Benzo (k) fluoranthene	0.0171	0.00500	"	0.0333	ND	51.3	40-140	13.2	30			
Chrysene	0.0305	0.00500	"	0.0333	0.00717	70.0	40-140	8.00	30			
Dibenz (a,h) anthracene	0.0189	0.00500	"	0.0333	ND	56.6	40-140	8.71	30			
Fluoranthene	0.0195	0.00500	"	0.0333	0.00668	38.6	40-140	2.54	30			QM-05
Fluorene	0.0498	0.00500	"	0.0333	0.0431	20.3	40-140	6.25	30			QM-05
Indeno (1,2,3-cd) pyrene	0.0225	0.00500	"	0.0333	ND	67.5	40-140	9.92	30			
Pyrene	0.0279	0.00500	"	0.0333	0.00696	62.7	40-140	11.3	30			
1-Methylnaphthalene	1.78	0.00500	"	0.0333	0.394	NR	40-140	51.0	30			QM-4X
2-Methylnaphthalene	3.27	0.00500	"	0.0333	0.945	NR	40-140	38.7	30			QM-4X
Surrogate: 2-Methylnaphthalene-d10	0.0368		"	0.0333		110	40-140					
Surrogate: Fluoranthene-d10	0.0147		"	0.0333		44.2	40-140					

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Barton C 15-29
Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

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

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

Batch BHK0404 - EPA 3050B

Blank (BHK0404-BLK1)

Prepared: 11/08/24 Analyzed: 11/12/24

Boron ND 2.00 mg/L

LCS (BHK0404-BS1)

Prepared: 11/08/24 Analyzed: 11/12/24

Boron 5.09 2.00 mg/L 5.00 102 80-120

Duplicate (BHK0404-DUP1)

Source: 2410611-01

Prepared: 11/08/24 Analyzed: 11/12/24

Boron 0.0979 2.00 mg/L 0.127 25.6 20 QR-01

Matrix Spike (BHK0404-MS1)

Source: 2410611-01

Prepared: 11/08/24 Analyzed: 11/12/24

Boron 5.11 2.00 mg/L 5.00 0.127 99.7 75-125

Matrix Spike Dup (BHK0404-MSD1)

Source: 2410611-01

Prepared: 11/08/24 Analyzed: 11/12/24

Boron 5.27 2.00 mg/L 5.00 0.127 103 75-125 3.03 25

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PO Box 1289
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Project: Noble - Barton C 15-29
Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHK0619 - EPA 3050B

Blank (BHK0619-BLK1)

Prepared: 11/13/24 Analyzed: 11/21/24

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

LCS (BHK0619-BS1)

Prepared: 11/13/24 Analyzed: 11/21/24

Arsenic	41.9	0.200	mg/kg wet	41.3	101	80-120
Barium	47.7	0.400	"	41.3	115	80-120
Cadmium	2.28	0.200	"	2.07	111	80-120
Copper	43.4	0.400	"	41.3	105	80-120
Lead	22.5	0.200	"	20.7	109	80-120
Nickel	42.6	0.400	"	41.3	103	80-120
Silver	1.77	0.0200	"	2.07	85.8	80-120
Zinc	42.7	0.400	"	41.3	103	80-120
Selenium	4.39	0.260	"	4.13	106	80-120

Duplicate (BHK0619-DUP1)

Source: 2410613-01

Prepared: 11/13/24 Analyzed: 11/21/24

Arsenic	6.98	0.200	mg/kg dry	7.45	6.54	20	
Barium	105	0.400	"	186	55.9	20	QR-04
Cadmium	0.283	0.200	"	0.351	21.4	20	QR-01
Copper	14.6	0.400	"	20.1	31.6	20	QR-04
Lead	9.83	0.200	"	14.6	39.1	20	QR-04
Nickel	2.91	0.400	"	3.55	19.9	20	
Silver	0.0581	0.0200	"	0.0631	8.10	20	
Zinc	55.2	0.400	"	74.9	30.4	20	QR-04
Selenium	0.419	0.260	"	0.352	17.3	20	

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Project: Noble - Barton C 15-29
Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHK0619 - EPA 3050B

Matrix Spike (BHK0619-MS1)		Source: 2410613-01			Prepared: 11/13/24 Analyzed: 11/21/24					
Arsenic	59.8	0.200	mg/kg dry	50.5	7.45	104	75-125			
Barium	200	0.400	"	50.5	186	26.3	75-125			QM-05
Cadmium	2.93	0.200	"	2.53	0.351	102	75-125			
Copper	72.1	0.400	"	50.5	20.1	103	75-125			
Lead	34.7	0.200	"	25.3	14.6	79.6	75-125			
Nickel	12.4	0.400	"	50.5	3.55	17.6	75-125			QM-05
Silver	0.199	0.0200	"	2.53	0.0631	5.36	75-125			QM-05
Zinc	125	0.400	"	50.5	74.9	100	75-125			
Selenium	5.16	0.260	"	5.05	0.352	95.2	75-125			

Matrix Spike Dup (BHK0619-MSD1)		Source: 2410613-01			Prepared: 11/13/24 Analyzed: 11/21/24					
Arsenic	60.1	0.200	mg/kg dry	53.4	7.45	98.6	75-125	0.552	25	
Barium	238	0.400	"	53.4	186	96.3	75-125	17.4	25	
Cadmium	2.81	0.200	"	2.67	0.351	92.0	75-125	4.28	25	
Copper	74.9	0.400	"	53.4	20.1	103	75-125	3.76	25	
Lead	37.8	0.200	"	26.7	14.6	87.0	75-125	8.57	25	
Nickel	13.8	0.400	"	53.4	3.55	19.2	75-125	10.6	25	QM-05
Silver	0.180	0.0200	"	2.67	0.0631	4.38	75-125	9.83	25	QM-05
Zinc	133	0.400	"	53.4	74.9	109	75-125	6.01	25	
Selenium	5.10	0.260	"	5.34	0.352	88.9	75-125	1.29	25	

Summit Scientific

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Project: Noble - Barton C 15-29
Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BHK0661 - 3060A Mod

Blank (BHK0661-BLK1)

Prepared: 11/13/24 Analyzed: 11/19/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHK0661-BS1)

Prepared: 11/13/24 Analyzed: 11/19/24

Chromium, Hexavalent 25.4 0.30 mg/kg wet 25.0 101 80-120

Duplicate (BHK0661-DUP1)

Source: 2410611-01

Prepared: 11/13/24 Analyzed: 11/19/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHK0661-MS1)

Source: 2410611-01

Prepared: 11/13/24 Analyzed: 11/19/24

Chromium, Hexavalent 25.7 0.30 mg/kg dry 25.9 ND 99.2 75-125

Matrix Spike Dup (BHK0661-MSD1)

Source: 2410611-01

Prepared: 11/13/24 Analyzed: 11/19/24

Chromium, Hexavalent 25.8 0.30 mg/kg dry 25.9 ND 99.6 75-125 0.402 20

Summit Scientific

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Project: Noble - Barton C 15-29
Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

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

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

Batch BHK0500 - General Preparation

Blank (BHK0500-BLK1)

Prepared: 11/11/24 Analyzed: 11/13/24

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

LCS (BHK0500-BS1)

Prepared: 11/11/24 Analyzed: 11/13/24

Calcium	5.92	0.0500	mg/L wet	5.00	118	70-130
Magnesium	5.13	0.0500	"	5.00	103	70-130
Sodium	5.15	0.0500	"	5.00	103	70-130

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Project: Noble - Barton C 15-29
Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

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

Summit Scientific

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

Batch BHK0277 - General Preparation

Duplicate (BHK0277-DUP1)

Source: 2410611-01

Prepared: 11/06/24 Analyzed: 11/07/24

% Solids	96.4	%	96.4	0.0804	20
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Project: Noble - Barton C 15-29
Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

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

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

Batch BHK0523 - General Preparation

Blank (BHK0523-BLK1)

Prepared: 11/11/24 Analyzed: 11/13/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHK0523-BS1)

Prepared: 11/11/24 Analyzed: 11/13/24

Specific Conductance (EC) 0.152 0.0100 mmhos/cm 0.150 102 95-105

Duplicate (BHK0523-DUP1)

Source: 2410613-01

Prepared: 11/11/24 Analyzed: 11/13/24

Specific Conductance (EC) 1.12 0.0100 mmhos/cm 1.17 4.11 20

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PO Box 1289
Wellington CO, 80549

Project: Noble - Barton C 15-29
Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

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

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

Batch BHK0524 - General Preparation

LCS (BHK0524-BS1)

Prepared: 11/11/24 Analyzed: 11/13/24

pH	9.21	pH Units	9.18	100	95-105
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Duplicate (BHK0524-DUP1)

Source: 2410613-01

Prepared: 11/11/24 Analyzed: 11/13/24

pH	8.42	pH Units	8.25	2.04	20
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Summit Scientific

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PO Box 1289
Wellington CO, 80549

Project: Noble - Barton C 15-29

Project Number: UWRWE-A2428-ABN
Project Manager: Paul Henchan

Reported:
11/25/24 10:02

Notes and Definitions

QR-04	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
QR-01	Analyses are not controlled on RPD values from sample concentrations below the reporting limit. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
QM-4X	The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
QM-01	The spike recovery for this QC sample is outside of established control limits due to sample matrix interference. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
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