

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

October 26, 2023

Paul Henchan  
Fremont Environmental  
PO Box 1289  
Wellington, CO 80549

RE: Noble - Barton C 15-19 Facility  
Work Order #2310297

Enclosed are the results of analyses for samples received by Summit Scientific on 10/16/23 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink that reads "Jacob Wood". The signature is written in a cursive style with a large initial "J" and a distinct "W".

Jacob Wood For Paul Shrewsbury  
President



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Barton C 15-19 Facility

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

**Reported:**  
10/26/23 15:22

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PWV FLOOR 5FT	2310297-01	Soil	10/14/23 00:00	10/16/23 16:30
AST W CEN. SURF.	2310297-02	Soil	10/14/23 00:00	10/16/23 16:30
AST E CEN. SURF.	2310297-03	Soil	10/14/23 00:00	10/16/23 16:30
N Dump 2FT	2310297-04	Soil	10/14/23 00:00	10/16/23 16:30
S Dump 2FT	2310297-05	Soil	10/14/23 00:00	10/16/23 16:30
N SEP RISER 3FT	2310297-06	Soil	10/14/23 00:00	10/16/23 16:30
S SEP RISER 3FT	2310297-07	Soil	10/14/23 00:00	10/16/23 16:30

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.*

# SUMMIT SCIENTIFIC

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

Lab ID 2310297 Page 1 of 1

<b>Send Data To:</b>		<b>Send Invoice To:</b>	
Client: Fremont Environmental, Inc.	Project Manager: Henehan	Company: <u>Chevron</u>	
Address: 8305 6th St.,	E-Mail: Fremont Distribution List	Project Name/Location:	
City/State/Zip: Wellington, CO, 80549		AFE#:	
Phone: 603-477-6907	Project Name: <u>Noble - Barton C15-19 (Facility)</u>	PO/Billing Codes: <u>UWRWE - A2428 - ABN</u>	
Sampler Name: Ethan Black	Project Number:	Contact: <u>Mike Montoya</u>	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Air-Canister #	Analysis Requested						Special Instructions
					HCl	HNO3	None	Other	Water	Soil		Other	BTEX, Naphthalene, TMBs	TPH (C6-C36)	PAH	SAR, EC, pH, Boron	TDS, Chloride, Sulfate	
1	PWV Floor SFT	10/14/23		2			X					X	X	X	X	X		
2	AST W CEN. SURF.																	
3	AST E CEN. SURF.																	
4	N Dump 2FT																	
5	S Dump 2FT																	
6	N SEP Riser 3FT																	
7	S SEP Riser 3FT																	
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		

Relinquished by: <u>Ethan Black</u>	Date/Time: <u>10/16/23 0630</u>	Received by: <u>S2</u>	Date/Time: <u>10/16/23 0630</u>	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by: <u>S2</u>	Date/Time: <u>10/16/23 1030</u>	Received by: <u>[Signature]</u>	Date/Time: <u>10/16/23 1030</u>	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: <u>10.9</u>	Corrected Temperature: <u>0</u>	IR gun #: <u>1</u>	HNO3 lot #:			

S<sub>2</sub>

Sample Receipt Checklist

S2 Work Order# 2310297

Client: Fremont

Client Project ID: Noble-Barton C19-19(Facility)

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

Airbill #: \_\_\_\_\_

Matrix (Check all that apply)

Air

Sol/Solid

Water

Other

Temp (°C) 109

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"/>	
If custody seals are present, are they intact? (1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	at JOE
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out completely? (1)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	no time stamps
Is the COC properly relinquished by the client w/ date and time recorded? (1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? (1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? (1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? (1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? (1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? (1) Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? (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

10/10/23  
Date/Time

2



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Barton C 15-19 Facility

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

**Reported:**  
10/26/23 15:22

**PWV FLOOR 5FT**  
**2310297-01 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGJ0679	10/17/23	10/18/23	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: **10/14/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0405	101 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0426	107 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0512	128 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGJ0678	10/17/23	10/19/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	9.89	79.1 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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: Noble - Barton C 15-19 Facility  
 Project Number: UWRWE-A2428-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 10/26/23 15:22

**PWV FLOOR 5FT**  
**2310297-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGJ0661	10/17/23	10/18/23	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: **10/14/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0152	45.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0172	51.6 %	40-150		"	"	"	"	

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

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGJ0839	10/20/23	10/24/23	EPA 6020B	

**Total Metals by EPA 6020B**

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: Noble - Barton C 15-19 Facility

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

**Reported:**  
10/26/23 15:22

**PWV FLOOR 5FT**  
**2310297-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.50	0.200	mg/kg dry	1	BGJ0924	10/24/23	10/25/23	EPA 6020B	
Barium	156	0.400	"	"	"	"	"	"	"
Cadmium	0.238	0.200	"	"	"	"	"	"	"
Copper	4.91	0.400	"	"	"	"	"	"	"
Lead	7.51	0.200	"	"	"	"	"	"	"
Nickel	1.96	0.400	"	"	"	"	"	"	"
Silver	0.0390	0.0200	"	"	"	"	"	"	"
Zinc	18.3	0.400	"	"	"	"	"	"	"
Selenium	0.511	0.260	"	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0881	10/23/23	10/23/23	EPA 7196A	

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

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	50.9	0.0500	mg/L dry	1	BGJ0842	10/20/23	10/24/23	EPA 6020B	
Magnesium	34.7	0.0500	"	"	"	"	"	"	"
Sodium	190	0.0500	"	"	"	"	"	"	"

**Calculated Analysis**

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	5.03	0.00100	units	1	BGJ1015	10/25/23	10/25/23	Calculation	

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: Noble - Barton C 15-19 Facility  
 Project Number: UWRWE-A2428-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 10/26/23 15:22

**PWV FLOOR 5FT**  
**2310297-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	84.1			%	1	BGJ0973	10/25/23	10/25/23	Calculation	

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

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	1.34	0.0100		mmhos/cm	1	BGJ0894	10/23/23	10/23/23	EPA 120.1	

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

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.88			pH Units	1	BGJ0895	10/23/23	10/23/23	EPA 9045D	

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: Noble - Barton C 15-19 Facility  
Project Number: UWRWE-A2428-ABN  
Project Manager: Paul Henchan

**Reported:**  
10/26/23 15:22

**AST W CEN. SURF.**  
**2310297-02 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGJ0679	10/17/23	10/18/23	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: **10/14/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0454	114 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0412	103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0421	105 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGJ0678	10/17/23	10/19/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	14.2	114 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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: Noble - Barton C 15-19 Facility

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

**Reported:**  
10/26/23 15:22

**AST W CEN. SURF.**  
**2310297-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGJ0661	10/17/23	10/18/23	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: **10/14/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0151	45.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0234	70.2 %	40-150		"	"	"	"	

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

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGJ0839	10/20/23	10/24/23	EPA 6020B	

**Total Metals by EPA 6020B**

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: Noble - Barton C 15-19 Facility

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

**Reported:**  
10/26/23 15:22

**AST W CEN. SURF.**  
**2310297-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Arsenic</b>	<b>0.622</b>	0.200	mg/kg dry	1	BGJ0924	10/24/23	10/25/23	EPA 6020B	
<b>Barium</b>	<b>6.97</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
<b>Copper</b>	<b>1.22</b>	0.400	"	"	"	"	"	"	
<b>Lead</b>	<b>0.867</b>	0.200	"	"	"	"	"	"	
Nickel	ND	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
<b>Zinc</b>	<b>5.04</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0881	10/23/23	10/23/23	EPA 7196A	

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

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>62.5</b>	0.0500	mg/L dry	1	BGJ0842	10/20/23	10/24/23	EPA 6020B	
<b>Magnesium</b>	<b>21.0</b>	0.0500	"	"	"	"	"	"	
<b>Sodium</b>	<b>83.9</b>	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Sodium Adsorption Ratio</b>	<b>2.34</b>	0.00100	units	1	BGJ1015	10/25/23	10/25/23	Calculation	

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: Noble - Barton C 15-19 Facility

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

**Reported:**  
 10/26/23 15:22

**AST W CEN. SURF.**  
**2310297-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	97.9			%	1	BGJ0973	10/25/23	10/25/23	Calculation	

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

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	1.01	0.0100		mmhos/cm	1	BGJ0894	10/23/23	10/23/23	EPA 120.1	

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

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.65			pH Units	1	BGJ0895	10/23/23	10/23/23	EPA 9045D	

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: Noble - Barton C 15-19 Facility  
Project Number: UWRWE-A2428-ABN  
Project Manager: Paul Henchan

**Reported:**  
10/26/23 15:22

**AST E CEN. SURE.**  
**2310297-03 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGJ0679	10/17/23	10/18/23	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: **10/14/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0486	121 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0411	103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0388	96.9 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGJ0678	10/17/23	10/19/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	8.90	71.2 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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: Noble - Barton C 15-19 Facility  
Project Number: UWRWE-A2428-ABN  
Project Manager: Paul Henchan

**Reported:**  
10/26/23 15:22

**AST E CEN. SURE.**  
**2310297-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGJ0661	10/17/23	10/18/23	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: **10/14/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0142	42.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0175	52.4 %	40-150		"	"	"	"	

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

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGJ0839	10/20/23	10/24/23	EPA 6020B	

**Total Metals by EPA 6020B**

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: Noble - Barton C 15-19 Facility

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

**Reported:**  
10/26/23 15:22

**AST E CEN. SURE.**  
**2310297-03 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Arsenic</b>	<b>0.891</b>	0.200	mg/kg dry	1	BGJ0924	10/24/23	10/25/23	EPA 6020B	
<b>Barium</b>	<b>65.1</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
<b>Copper</b>	<b>2.49</b>	0.400	"	"	"	"	"	"	
<b>Lead</b>	<b>3.99</b>	0.200	"	"	"	"	"	"	
<b>Nickel</b>	<b>0.403</b>	0.400	"	"	"	"	"	"	
<b>Silver</b>	<b>0.0241</b>	0.0200	"	"	"	"	"	"	
<b>Zinc</b>	<b>10.4</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0881	10/23/23	10/23/23	EPA 7196A	

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

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>62.9</b>	0.0500	mg/L dry	1	BGJ0842	10/20/23	10/24/23	EPA 6020B	
<b>Magnesium</b>	<b>25.2</b>	0.0500	"	"	"	"	"	"	
<b>Sodium</b>	<b>130</b>	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Sodium Adsorption Ratio</b>	<b>3.50</b>	0.00100	units	1	BGJ1015	10/25/23	10/25/23	Calculation	

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: Noble - Barton C 15-19 Facility  
Project Number: UWRWE-A2428-ABN  
Project Manager: Paul Henchan

**Reported:**  
10/26/23 15:22

**AST E CEN. SURE.**  
**2310297-03 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	86.4			%	1	BGJ0973	10/25/23	10/25/23	Calculation	

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

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	1.11	0.0100		mmhos/cm	1	BGJ0894	10/23/23	10/23/23	EPA 120.1	

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

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.02			pH Units	1	BGJ0895	10/23/23	10/23/23	EPA 9045D	

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: Noble - Barton C 15-19 Facility  
Project Number: UWRWE-A2428-ABN  
Project Manager: Paul Henchan

**Reported:**  
10/26/23 15:22

**N Dump 2FT**  
**2310297-04 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGJ0679	10/17/23	10/18/23	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: **10/14/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0456	114 %	50-150	"	"	"	"	"	
Surrogate: Toluene-d8	0.0412	103 %	50-150	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0391	97.6 %	50-150	"	"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGJ0678	10/17/23	10/19/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	13.4	107 %	30-150	"	"	"	"	"	

**PAH by EPA Method 8270D SIM**

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: Noble - Barton C 15-19 Facility  
Project Number: UWRWE-A2428-ABN  
Project Manager: Paul Henchan

**Reported:**  
10/26/23 15:22

**N Dump 2FT**  
**2310297-04 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGJ0661	10/17/23	10/18/23	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: **10/14/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0145	43.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0156	46.7 %	40-150		"	"	"	"	

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

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGJ0839	10/20/23	10/24/23	EPA 6020B	

**Total Metals by EPA 6020B**

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: Noble - Barton C 15-19 Facility  
Project Number: UWRWE-A2428-ABN  
Project Manager: Paul Henchan

**Reported:**  
10/26/23 15:22

**N Dump 2FT**  
**2310297-04 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.25	0.200	mg/kg dry	1	BGJ0924	10/24/23	10/25/23	EPA 6020B	
Barium	82.3	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.11	0.400	"	"	"	"	"	"	
Lead	4.54	0.200	"	"	"	"	"	"	
Nickel	0.592	0.400	"	"	"	"	"	"	
Silver	0.0255	0.0200	"	"	"	"	"	"	
Zinc	11.5	0.400	"	"	"	"	"	"	
Selenium	0.477	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0881	10/23/23	10/23/23	EPA 7196A	

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

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	413	0.0500	mg/L dry	1	BGJ0842	10/20/23	10/24/23	EPA 6020B	
Magnesium	84.8	0.0500	"	"	"	"	"	"	
Sodium	218	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	2.55	0.00100	units	1	BGJ1015	10/25/23	10/25/23	Calculation	

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: Noble - Barton C 15-19 Facility  
 Project Number: UWRWE-A2428-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 10/26/23 15:22

**N Dump 2FT**  
**2310297-04 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	86.2			%	1	BGJ0973	10/25/23	10/25/23	Calculation	

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

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	2.95	0.0100		mmhos/cm	1	BGJ0894	10/23/23	10/23/23	EPA 120.1	

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

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.79			pH Units	1	BGJ0895	10/23/23	10/23/23	EPA 9045D	

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: Noble - Barton C 15-19 Facility  
Project Number: UWRWE-A2428-ABN  
Project Manager: Paul Henchan

**Reported:**  
10/26/23 15:22

**S Dump 2FT**  
**2310297-05 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGJ0679	10/17/23	10/18/23	EPA 8260B	
<b>Toluene</b>	<b>0.013</b>	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>0.015</b>	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: **10/14/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0393	98.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0413	103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0394	98.5 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGJ0678	10/17/23	10/19/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/14/23 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**

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: Noble - Barton C 15-19 Facility  
Project Number: UWRWE-A2428-ABN  
Project Manager: Paul Henchan

**Reported:**  
10/26/23 15:22

**S Dump 2FT**  
**2310297-05 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGJ0661	10/17/23	10/18/23	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: **10/14/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0137	41.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0162	48.6 %	40-150		"	"	"	"	

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

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGJ0839	10/20/23	10/24/23	EPA 6020B	

**Total Metals by EPA 6020B**

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: Noble - Barton C 15-19 Facility

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

**Reported:**  
10/26/23 15:22

**S Dump 2FT**  
**2310297-05 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Arsenic</b>	<b>1.19</b>	0.200	mg/kg dry	1	BGJ0924	10/24/23	10/25/23	EPA 6020B	
<b>Barium</b>	<b>44.7</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
<b>Copper</b>	<b>2.44</b>	0.400	"	"	"	"	"	"	
<b>Lead</b>	<b>2.92</b>	0.200	"	"	"	"	"	"	
Nickel	ND	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
<b>Zinc</b>	<b>9.67</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0881	10/23/23	10/23/23	EPA 7196A	

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

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>150</b>	0.0500	mg/L dry	1	BGJ0842	10/20/23	10/24/23	EPA 6020B	
<b>Magnesium</b>	<b>45.0</b>	0.0500	"	"	"	"	"	"	
<b>Sodium</b>	<b>237</b>	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Sodium Adsorption Ratio</b>	<b>4.36</b>	0.00100	units	1	BGJ1015	10/25/23	10/25/23	Calculation	

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: Noble - Barton C 15-19 Facility  
 Project Number: UWRWE-A2428-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 10/26/23 15:22

**S Dump 2FT**  
**2310297-05 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	83.6			%	1	BGJ0973	10/25/23	10/25/23	Calculation	

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

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	1.84	0.0100		mmhos/cm	1	BGJ0894	10/23/23	10/23/23	EPA 120.1	

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

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.93			pH Units	1	BGJ0895	10/23/23	10/23/23	EPA 9045D	

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: Noble - Barton C 15-19 Facility  
Project Number: UWRWE-A2428-ABN  
Project Manager: Paul Henchan

**Reported:**  
10/26/23 15:22

**N SEP RISER 3FT**  
**2310297-06 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGJ0679	10/17/23	10/18/23	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: **10/14/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0473	118 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0411	103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0386	96.4 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGJ0678	10/17/23	10/19/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	12.7	102 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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: Noble - Barton C 15-19 Facility  
Project Number: UWRWE-A2428-ABN  
Project Manager: Paul Henchan

**Reported:**  
10/26/23 15:22

**N SEP RISER 3FT**  
**2310297-06 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGJ0661	10/17/23	10/18/23	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: **10/14/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0184	55.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0198	59.5 %	40-150		"	"	"	"	

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

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGJ0839	10/20/23	10/24/23	EPA 6020B	

**Total Metals by EPA 6020B**

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: Noble - Barton C 15-19 Facility  
Project Number: UWRWE-A2428-ABN  
Project Manager: Paul Henchan

**Reported:**  
10/26/23 15:22

**N SEP RISER 3FT**  
**2310297-06 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Arsenic</b>	<b>0.989</b>	0.200	mg/kg dry	1	BGJ0924	10/24/23	10/25/23	EPA 6020B	
<b>Barium</b>	<b>33.8</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
<b>Copper</b>	<b>1.84</b>	0.400	"	"	"	"	"	"	
<b>Lead</b>	<b>2.53</b>	0.200	"	"	"	"	"	"	
Nickel	ND	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
<b>Zinc</b>	<b>8.38</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0881	10/23/23	10/23/23	EPA 7196A	

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

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>142</b>	0.0500	mg/L dry	1	BGJ0842	10/20/23	10/24/23	EPA 6020B	
<b>Magnesium</b>	<b>33.8</b>	0.0500	"	"	"	"	"	"	
<b>Sodium</b>	<b>118</b>	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Sodium Adsorption Ratio</b>	<b>2.31</b>	0.00100	units	1	BGJ1015	10/25/23	10/25/23	Calculation	

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: Noble - Barton C 15-19 Facility  
 Project Number: UWRWE-A2428-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 10/26/23 15:22

**N SEP RISER 3FT**  
**2310297-06 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	94.3			%	1	BGJ0973	10/25/23	10/25/23	Calculation	

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

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	1.51	0.0100		mmhos/cm	1	BGJ0894	10/23/23	10/23/23	EPA 120.1	

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

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.87			pH Units	1	BGJ0895	10/23/23	10/23/23	EPA 9045D	

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: Noble - Barton C 15-19 Facility  
Project Number: UWRWE-A2428-ABN  
Project Manager: Paul Henchan

**Reported:**  
10/26/23 15:22

**S SEP RISER 3FT**  
**2310297-07 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGJ0679	10/17/23	10/18/23	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: **10/14/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0360	90.1 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0392	98.1 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0388	97.1 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGJ0678	10/17/23	10/19/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	10.7	85.6 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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: Noble - Barton C 15-19 Facility  
Project Number: UWRWE-A2428-ABN  
Project Manager: Paul Henchan

**Reported:**  
10/26/23 15:22

**S SEPRISER 3FT**  
**2310297-07 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGJ0661	10/17/23	10/19/23	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: **10/14/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0152	45.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0183	54.8 %	40-150		"	"	"	"	

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

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGJ0839	10/20/23	10/24/23	EPA 6020B	

**Total Metals by EPA 6020B**

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: Noble - Barton C 15-19 Facility

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

**Reported:**  
10/26/23 15:22

**S SEPRISER 3FT**  
**2310297-07 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.08	0.200	mg/kg dry	1	BGJ0924	10/24/23	10/25/23	EPA 6020B	
Barium	43.0	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.37	0.400	"	"	"	"	"	"	
Lead	3.12	0.200	"	"	"	"	"	"	
Nickel	0.401	0.400	"	"	"	"	"	"	
Silver	0.0261	0.0200	"	"	"	"	"	"	
Zinc	10.1	0.400	"	"	"	"	"	"	
Selenium	0.266	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGJ0881	10/23/23	10/23/23	EPA 7196A	

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

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	68.9	0.0500	mg/L dry	1	BGJ0842	10/20/23	10/25/23	EPA 6020B	
Magnesium	10.6	0.0500	"	"	"	"	"	"	
Sodium	17.6	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	0.521	0.00100	units	1	BGJ1015	10/25/23	10/25/23	Calculation	

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: Noble - Barton C 15-19 Facility  
Project Number: UWRWE-A2428-ABN  
Project Manager: Paul Henchan

**Reported:**  
10/26/23 15:22

**S SEPRISER 3FT**  
**2310297-07 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	93.5			%	1	BGJ0973	10/25/23	10/25/23	Calculation	

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

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.546	0.0100		mmhos/cm	1	BGJ0894	10/23/23	10/23/23	EPA 120.1	

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

Date Sampled: **10/14/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.91			pH Units	1	BGJ0895	10/23/23	10/23/23	EPA 9045D	

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: Noble - Barton C 15-19 Facility

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

**Reported:**  
10/26/23 15:22

### 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 BGJ0679 - EPA 5030 Soil MS

##### Blank (BGJ0679-BLK1)

Prepared: 10/17/23 Analyzed: 10/18/23

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>	0.0386		"	0.0400		96.4	50-150			
<i>Surrogate: Toluene-d8</i>	0.0398		"	0.0400		99.4	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0393		"	0.0400		98.2	50-150			

##### LCS (BGJ0679-BS1)

Prepared: 10/17/23 Analyzed: 10/18/23

Benzene	0.109	0.0020	mg/kg	0.100	109	70-130				
Toluene	0.108	0.0050	"	0.100	108	70-130				
Ethylbenzene	0.103	0.0050	"	0.100	103	70-130				
m,p-Xylene	0.204	0.010	"	0.200	102	70-130				
o-Xylene	0.101	0.0050	"	0.100	101	70-130				
1,2,4-Trimethylbenzene	0.0962	0.0050	"	0.100	96.2	70-130				
1,3,5-Trimethylbenzene	0.0975	0.0050	"	0.100	97.5	70-130				
Naphthalene	0.0862	0.0038	"	0.100	86.2	70-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0385		"	0.0400	96.2	50-150				
<i>Surrogate: Toluene-d8</i>	0.0404		"	0.0400	101	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0379		"	0.0400	94.8	50-150				

##### Matrix Spike (BGJ0679-MS1)

Source: 2310291-01

Prepared: 10/17/23 Analyzed: 10/18/23

Benzene	0.0943	0.0020	mg/kg	0.100	ND	94.3	70-130			
Toluene	0.0846	0.0050	"	0.100	ND	84.6	70-130			
Ethylbenzene	0.0796	0.0050	"	0.100	ND	79.6	70-130			
m,p-Xylene	0.159	0.010	"	0.200	ND	79.3	70-130			
o-Xylene	0.0821	0.0050	"	0.100	ND	82.1	70-130			
1,2,4-Trimethylbenzene	0.0991	0.0050	"	0.100	ND	99.1	70-130			
1,3,5-Trimethylbenzene	0.0729	0.0050	"	0.100	ND	72.9	70-130			
Naphthalene	0.118	0.0038	"	0.100	ND	118	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0463		"	0.0400		116	50-150			
<i>Surrogate: Toluene-d8</i>	0.0401		"	0.0400		100	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0390		"	0.0400		97.5	50-150			

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: Noble - Barton C 15-19 Facility

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

**Reported:**  
 10/26/23 15:22

**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 BGJ0679 - EPA 5030 Soil MS**

<b>Matrix Spike Dup (BGJ0679-MSD1)</b>	<b>Source: 2310291-01</b>			Prepared: 10/17/23 Analyzed: 10/18/23						
Benzene	0.0865	0.0020	mg/kg	0.100	ND	86.5	70-130	8.63	30	
Toluene	0.0752	0.0050	"	0.100	ND	75.2	70-130	11.8	30	
Ethylbenzene	0.0721	0.0050	"	0.100	ND	72.1	70-130	9.85	30	
m,p-Xylene	0.147	0.010	"	0.200	ND	73.5	70-130	7.58	30	
o-Xylene	0.0751	0.0050	"	0.100	ND	75.1	70-130	8.97	30	
1,2,4-Trimethylbenzene	0.0915	0.0050	"	0.100	ND	91.5	70-130	7.97	30	
1,3,5-Trimethylbenzene	0.0959	0.0050	"	0.100	ND	95.9	70-130	27.2	30	
Naphthalene	0.108	0.0038	"	0.100	ND	108	70-130	8.35	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0458</i>		<i>"</i>	<i>0.0400</i>		<i>114</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0394</i>		<i>"</i>	<i>0.0400</i>		<i>98.6</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0387</i>		<i>"</i>	<i>0.0400</i>		<i>96.8</i>	<i>50-150</i>			

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: Noble - Barton C 15-19 Facility  
 Project Number: UWRWE-A2428-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 10/26/23 15:22

**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 BGJ0678 - EPA 3550A**

**Blank (BGJ0678-BLK1)**

Prepared: 10/17/23 Analyzed: 10/18/23

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	12.4		"	12.5		99.2	30-150				

**LCS (BGJ0678-BS1)**

Prepared: 10/17/23 Analyzed: 10/18/23

C10-C28 (DRO)	553	50	mg/kg	500		111	70-130				
Surrogate: <i>o</i> -Terphenyl	12.3		"	12.5		98.2	30-150				

**Matrix Spike (BGJ0678-MS1)**

Source: 2310291-01

Prepared: 10/17/23 Analyzed: 10/18/23

C10-C28 (DRO)	418	50	mg/kg	500	16.1	80.4	70-130				
Surrogate: <i>o</i> -Terphenyl	9.60		"	12.5		76.8	30-150				

**Matrix Spike Dup (BGJ0678-MSD1)**

Source: 2310291-01

Prepared: 10/17/23 Analyzed: 10/19/23

C10-C28 (DRO)	450	50	mg/kg	500	16.1	86.8	70-130	7.31	20		
Surrogate: <i>o</i> -Terphenyl	11.7		"	12.5		93.5	30-150				

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: Noble - Barton C 15-19 Facility  
Project Number: UWRWE-A2428-ABN  
Project Manager: Paul Henchan

**Reported:**  
10/26/23 15:22

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

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

**Batch BGJ0661 - EPA 5030 Soil MS**

**Blank (BGJ0661-BLK1)**

Prepared: 10/17/23 Analyzed: 10/18/23

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	0.0324		"	0.0333		97.2		40-150			
Surrogate: Fluoranthene-d10	0.0360		"	0.0333		108		40-150			

**LCS (BGJ0661-BS1)**

Prepared: 10/17/23 Analyzed: 10/18/23

Acenaphthene	0.0337	0.00500	mg/kg	0.0333	101	31-137					
Anthracene	0.0351	0.00500	"	0.0333	105	30-120					
Benzo (a) anthracene	0.0339	0.00500	"	0.0333	102	30-120					
Benzo (a) pyrene	0.0326	0.00500	"	0.0333	97.7	30-120					
Benzo (b) fluoranthene	0.0333	0.00500	"	0.0333	99.9	30-120					
Benzo (k) fluoranthene	0.0342	0.00500	"	0.0333	103	30-120					
Chrysene	0.0356	0.00500	"	0.0333	107	30-120					
Dibenz (a,h) anthracene	0.0306	0.00500	"	0.0333	91.9	30-120					
Fluoranthene	0.0350	0.00500	"	0.0333	105	30-120					
Fluorene	0.0337	0.00500	"	0.0333	101	30-120					
Indeno (1,2,3-cd) pyrene	0.0302	0.00500	"	0.0333	90.6	30-120					
Pyrene	0.0353	0.00500	"	0.0333	106	35-142					
1-Methylnaphthalene	0.0332	0.00500	"	0.0333	99.7	35-142					
2-Methylnaphthalene	0.0342	0.00500	"	0.0333	103	35-142					
Surrogate: 2-Methylnaphthalene-d10	0.0353		"	0.0333	106	40-150					
Surrogate: Fluoranthene-d10	0.0350		"	0.0333	105	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: Noble - Barton C 15-19 Facility

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

**Reported:**  
10/26/23 15:22

**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 BGJ0661 - EPA 5030 Soil MS**

**Matrix Spike (BGJ0661-MS1)**

Source: 2310269-05

Prepared: 10/17/23 Analyzed: 10/18/23

Acenaphthene	0.0229	0.00500	mg/kg	0.0333	ND	68.6	31-137			
Anthracene	0.0200	0.00500	"	0.0333	ND	60.0	30-120			
Benzo (a) anthracene	0.0214	0.00500	"	0.0333	ND	64.1	30-120			
Benzo (a) pyrene	0.0194	0.00500	"	0.0333	ND	58.3	30-120			
Benzo (b) fluoranthene	0.0197	0.00500	"	0.0333	ND	59.0	30-120			
Benzo (k) fluoranthene	0.0197	0.00500	"	0.0333	ND	59.1	30-120			
Chrysene	0.0216	0.00500	"	0.0333	ND	64.9	30-120			
Dibenz (a,h) anthracene	0.0160	0.00500	"	0.0333	ND	48.1	30-120			
Fluoranthene	0.0229	0.00500	"	0.0333	ND	68.7	30-120			
Fluorene	0.0199	0.00500	"	0.0333	ND	59.7	30-120			
Indeno (1,2,3-cd) pyrene	0.0178	0.00500	"	0.0333	ND	53.3	30-120			
Pyrene	0.0222	0.00500	"	0.0333	ND	66.7	35-142			
1-Methylnaphthalene	0.0192	0.00500	"	0.0333	ND	57.6	15-130			
2-Methylnaphthalene	0.0202	0.00500	"	0.0333	ND	60.6	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0197		"	0.0333		59.1	40-150			
Surrogate: Fluoranthene-d10	0.0207		"	0.0333		62.1	40-150			

**Matrix Spike Dup (BGJ0661-MSD1)**

Source: 2310269-05

Prepared: 10/17/23 Analyzed: 10/18/23

Acenaphthene	0.0238	0.00500	mg/kg	0.0333	ND	71.5	31-137	4.19	30	
Anthracene	0.0259	0.00500	"	0.0333	ND	77.7	30-120	25.6	30	
Benzo (a) anthracene	0.0276	0.00500	"	0.0333	ND	82.8	30-120	25.5	30	
Benzo (a) pyrene	0.0244	0.00500	"	0.0333	ND	73.3	30-120	22.8	30	
Benzo (b) fluoranthene	0.0247	0.00500	"	0.0333	ND	74.2	30-120	22.8	30	
Benzo (k) fluoranthene	0.0249	0.00500	"	0.0333	ND	74.8	30-120	23.3	30	
Chrysene	0.0274	0.00500	"	0.0333	ND	82.1	30-120	23.3	30	
Dibenz (a,h) anthracene	0.0205	0.00500	"	0.0333	ND	61.5	30-120	24.3	30	
Fluoranthene	0.0303	0.00500	"	0.0333	ND	91.0	30-120	27.9	30	
Fluorene	0.0230	0.00500	"	0.0333	ND	69.0	30-120	14.4	30	
Indeno (1,2,3-cd) pyrene	0.0215	0.00500	"	0.0333	ND	64.4	30-120	19.0	30	
Pyrene	0.0288	0.00500	"	0.0333	ND	86.5	35-142	25.9	30	
1-Methylnaphthalene	0.0238	0.00500	"	0.0333	ND	71.4	15-130	21.5	50	
2-Methylnaphthalene	0.0247	0.00500	"	0.0333	ND	74.0	15-130	19.9	50	
Surrogate: 2-Methylnaphthalene-d10	0.0247		"	0.0333		74.2	40-150			
Surrogate: Fluoranthene-d10	0.0273		"	0.0333		81.9	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: Noble - Barton C 15-19 Facility

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

**Reported:**  
 10/26/23 15:22

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

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

**Batch BGJ0839 - EPA 3050B**

**Blank (BGJ0839-BLK1)**

Prepared: 10/20/23 Analyzed: 10/24/23

Boron ND 2.00 mg/L

**LCS (BGJ0839-BS1)**

Prepared: 10/20/23 Analyzed: 10/24/23

Boron 4.81 2.00 mg/L 5.00 96.1 80-120

**Duplicate (BGJ0839-DUP1)**

Source: 2310295-01

Prepared: 10/20/23 Analyzed: 10/24/23

Boron 0.477 2.00 mg/L 0.489 2.45 20

**Matrix Spike (BGJ0839-MS1)**

Source: 2310295-01

Prepared: 10/20/23 Analyzed: 10/24/23

Boron 4.26 2.00 mg/L 5.00 0.489 75.4 75-125

**Matrix Spike Dup (BGJ0839-MSD1)**

Source: 2310295-01

Prepared: 10/20/23 Analyzed: 10/24/23

Boron 4.24 2.00 mg/L 5.00 0.489 75.0 75-125 0.460 25

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: Noble - Barton C 15-19 Facility

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

**Reported:**  
 10/26/23 15:22

**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 BGJ0924 - EPA 3050B**

**Blank (BGJ0924-BLK1)**

Prepared: 10/24/23 Analyzed: 10/25/23

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 (BGJ0924-BS1)**

Prepared: 10/24/23 Analyzed: 10/25/23

Arsenic	36.4	0.200	mg/kg wet	40.0	91.0	80-120
Barium	35.0	0.400	"	40.0	87.6	80-120
Cadmium	1.91	0.200	"	2.00	95.7	80-120
Copper	37.4	0.400	"	40.0	93.5	80-120
Lead	23.6	0.200	"	20.0	118	80-120
Nickel	37.7	0.400	"	40.0	94.1	80-120
Silver	1.93	0.0200	"	2.00	96.3	80-120
Zinc	37.7	0.400	"	40.0	94.3	80-120
Selenium	4.42	0.260	"	4.00	110	80-120

**Duplicate (BGJ0924-DUP1)**

Source: 2310190-01

Prepared: 10/24/23 Analyzed: 10/25/23

Arsenic	1.33	0.200	mg/kg dry	1.66	22.2	20	QR-01
Barium	36.7	0.400	"	39.8	8.18	20	
Cadmium	0.0586	0.200	"	0.0662	12.2	20	
Copper	1.54	0.400	"	1.74	11.8	20	
Lead	120	0.200	"	4.53	185	20	QR-01
Nickel	1.28	0.400	"	1.53	17.7	20	
Silver	0.0215	0.0200	"	0.00886	83.3	20	QR-01
Zinc	6.51	0.400	"	7.67	16.4	20	
Selenium	ND	0.260	"	ND		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: Noble - Barton C 15-19 Facility

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

**Reported:**  
 10/26/23 15:22

**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 BGJ0924 - EPA 3050B**

**Matrix Spike (BGJ0924-MS1)**

Source: 2310190-01

Prepared: 10/24/23 Analyzed: 10/25/23

Arsenic	38.3	0.200	mg/kg dry	42.2	1.66	86.8	75-125			
Barium	67.9	0.400	"	42.2	39.8	66.5	75-125			QM-07
Cadmium	1.61	0.200	"	2.11	0.0662	73.4	75-125			QM-07
Copper	27.2	0.400	"	42.2	1.74	60.3	75-125			QM-07
Lead	19.3	0.200	"	21.1	4.53	69.8	75-125			QM-07
Nickel	27.8	0.400	"	42.2	1.53	62.2	75-125			QM-07
Silver	1.55	0.0200	"	2.11	0.00886	73.1	75-125			QM-07
Zinc	31.9	0.400	"	42.2	7.67	57.3	75-125			QM-07
Selenium	4.88	0.260	"	4.22	ND	116	75-125			

**Matrix Spike Dup (BGJ0924-MSD1)**

Source: 2310190-01

Prepared: 10/24/23 Analyzed: 10/25/23

Arsenic	40.6	0.200	mg/kg dry	42.2	1.66	92.3	75-125	5.88	25	
Barium	68.5	0.400	"	42.2	39.8	68.0	75-125	0.933	25	QM-07
Cadmium	1.63	0.200	"	2.11	0.0662	74.0	75-125	0.781	25	QM-07
Copper	28.0	0.400	"	42.2	1.74	62.2	75-125	2.94	25	QM-07
Lead	19.6	0.200	"	21.1	4.53	71.6	75-125	1.92	25	QM-07
Nickel	28.5	0.400	"	42.2	1.53	64.0	75-125	2.72	25	QM-07
Silver	1.58	0.0200	"	2.11	0.00886	74.4	75-125	1.81	25	QM-07
Zinc	32.5	0.400	"	42.2	7.67	58.9	75-125	2.07	25	QM-07
Selenium	5.01	0.260	"	4.22	ND	119	75-125	2.50	25	

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: Noble - Barton C 15-19 Facility

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

**Reported:**  
 10/26/23 15:22

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

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

**Batch BGJ0881 - 3060A Mod**

**Blank (BGJ0881-BLK1)**

Prepared & Analyzed: 10/23/23

Chromium, Hexavalent      ND      0.30    mg/kg wet

**LCS (BGJ0881-BS1)**

Prepared & Analyzed: 10/23/23

Chromium, Hexavalent      26.2      0.30    mg/kg wet      25.0      105      80-120

**Duplicate (BGJ0881-DUP1)**

**Source: 2310297-01**

Prepared & Analyzed: 10/23/23

Chromium, Hexavalent      ND      0.30    mg/kg dry      ND      20

**Matrix Spike (BGJ0881-MS1)**

**Source: 2310297-01**

Prepared & Analyzed: 10/23/23

Chromium, Hexavalent      29.6      0.30    mg/kg dry      29.7      ND      99.6      75-125

**Matrix Spike Dup (BGJ0881-MSD1)**

**Source: 2310297-01**

Prepared & Analyzed: 10/23/23

Chromium, Hexavalent      28.8      0.30    mg/kg dry      29.7      ND      97.0      75-125      2.64      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: Noble - Barton C 15-19 Facility

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

**Reported:**  
 10/26/23 15:22

**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 BGJ0842 - General Preparation**

**Blank (BGJ0842-BLK1)**

Prepared: 10/20/23 Analyzed: 10/24/23

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

**LCS (BGJ0842-BS1)**

Prepared: 10/20/23 Analyzed: 10/24/23

Calcium	5.12	0.0500	mg/L wet	5.00		102	70-130			
Magnesium	5.26	0.0500	"	5.00		105	70-130			
Sodium	5.52	0.0500	"	5.00		110	70-130			

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: Noble - Barton C 15-19 Facility

Project Number: UWRWE-A2428-ABN

Project Manager: Paul Henchan

**Reported:**  
 10/26/23 15:22

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

**Summit Scientific**

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

**Batch BGJ0973 - General Preparation**

**Duplicate (BGJ0973-DUP1)**

**Source: 2310292-04**

**Prepared & Analyzed: 10/25/23**

% Solids	94.1		%		94.0			0.0636	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: Noble - Barton C 15-19 Facility

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

**Reported:**  
 10/26/23 15:22

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

**Summit Scientific**

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

**Batch BGJ0894 - General Preparation**

**Blank (BGJ0894-BLK1)**

Prepared & Analyzed: 10/23/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BGJ0894-BS1)**

Prepared & Analyzed: 10/23/23

Specific Conductance (EC) 0.151 0.0100 mmhos/cm 0.150 101 95-105

**Duplicate (BGJ0894-DUP1)**

Source: 2310052-03

Prepared & Analyzed: 10/23/23

Specific Conductance (EC) 1.99 0.0100 mmhos/cm 1.99 0.251 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: Noble - Barton C 15-19 Facility

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

**Reported:**  
 10/26/23 15:22

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

**Summit Scientific**

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

**Batch BGJ0895 - General Preparation**

**LCS (BGJ0895-BS1)**

Prepared & Analyzed: 10/23/23

pH 9.15 pH Units 9.18 99.7 95-105

**Duplicate (BGJ0895-DUP1)**

Source: 2310292-04

Prepared & Analyzed: 10/23/23

pH 5.99 pH Units 6.02 0.500 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: Noble - Barton C 15-19 Facility

Project Number: UWRWE-A2428-ABN

Project Manager: Paul Henchan

**Reported:**  
10/26/23 15:22

### Notes and Definitions

- QR-01      Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
- 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.
- 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