

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

July 25, 2024

Paul Henchan

Fremont Environmental

PO Box 1289

Wellington, CO 80549

RE: Noble - Ewing Robert Fed/Robert (Background)

Work Order #2405138

Enclosed are the results of analyses for samples received by Summit Scientific on 05/09/24 08:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', written in a cursive style.

Paul Shrewsbury

President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Ewing Robert Fed/Robert (Background)
Project Number: [none]
Project Manager: Paul Henchan

Reported:
07/25/24 14:48

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BKG01@6.0"	2405138-01	Soil	05/03/24 00:00	05/09/24 08:40
BKG01@4.0'	2405138-02	Soil	05/03/24 00:00	05/09/24 08:40
BKG01@5.0'	2405138-03	Soil	05/03/24 00:00	05/09/24 08:40
BKG02@6.0"	2405138-04	Soil	05/03/24 00:00	05/09/24 08:40
BKG02@4.0'	2405138-05	Soil	05/03/24 00:00	05/09/24 08:40
BKG02@5.0'	2405138-06	Soil	05/03/24 00:00	05/09/24 08:40
BKG03@6.0"	2405138-07	Soil	05/03/24 00:00	05/09/24 08:40
BKG03@4.0'	2405138-08	Soil	05/03/24 00:00	05/09/24 08:40
BKG03@5.0'	2405138-09	Soil	05/03/24 00:00	05/09/24 08:40
BKG04@6.0"	2405138-10	Soil	05/03/24 00:00	05/09/24 08:40
BKG04@4.0'	2405138-11	Soil	05/03/24 00:00	05/09/24 08:40
BKG04@5.0'	2405138-12	Soil	05/03/24 00:00	05/09/24 08:40
BKG05@6.0"	2405138-13	Soil	05/03/24 00:00	05/09/24 08:40
BKG05@4.0'	2405138-14	Soil	05/03/24 00:00	05/09/24 08:40
BKG05@5.0'	2405138-15	Soil	05/03/24 00:00	05/09/24 08:40

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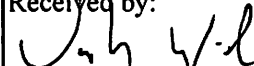
SUMMIT SCIENTIFIC

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

Lab ID	Page 1 of 1
23105138	

Send Data To:		Send Invoice To:	
Client: Fremont Env	Project Manager: Paul Henehan	Company: Noble	
Address:	E-Mail: PaulH@Fremontenv.com	Project Name/Location:	
City/State/Zip:	Jeffy@Fremontenv.com Ethan@Fremontenv.com	AFE#:	
Phone:	Project Name: Ewing Robert Fed/Robert (Background)	BO/Billing Codes: UWRWE-A3000-ABN	
Sampler Name: JG	Project Number:	Contact:	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested				Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	EC, PH, SAR, Boron	Metals (915)		
1	BK601@6.0'	5/3/24		1			X			X			X	X		
2	BK601@4.0'															
3	BK601@5.0'															
4	BK602@6.0'															
5	BK602@4.0'															
6	BK602@5.0'															
7	BK603@6.0'															
8	BK603@4.0'															
9	BK603@5.0'															
10	BK604@6.0'															
11	BK604@4.0'															
12	BK604@5.0'															
13	BK605@6.0'															
14	BK605@4.0'															
15	BK605@5.0'															

Relinquished by: 	Date/Time: 5/9/24 8:40	Received by: 	Date/Time: 5/9/24 8:40	TAT Business Days	Field DO	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
Relinquished by:	Date/Time:	Received by:	Date/Time:	2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
Temperature Upon Receipt: 14.1	Corrected Temperature	IR gun #: 2	HNO3 lot #:	Standard	X	Field Turb.

S₂

S2 Work Order# 2405138

Sample Receipt Checklist

Client: Fremont Client Project ID: Ewing Robert Fed/Robert (Backgrounds)

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

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
-------------------------------------	--------------------------	--------------------------	--------------------------	--------------------------

Matrix (Check all that apply) Air Soil/Solid Water Other Temp (°C) 14.1 Thermometer # 2

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6 °C ⁽¹⁾ ? NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.		<input checked="" type="checkbox"/>		
If custody seals are present, are they intact ⁽¹⁾ ?			<input checked="" type="checkbox"/>	
Are samples due within 48 hours present?		<input checked="" 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 checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?		<input checked="" type="checkbox"/>		<u>No Sample times</u>
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			<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 checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? Record the pH in Comments.			<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?			<input checked="" type="checkbox"/>	
<u>Additional Comments (if any):</u>				

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

W. H. Wild
Custodian Printed Name5/9/24 8:40
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Ewing Robert Fed/Robert (Background)

Project Number: [none]
Project Manager: Paul Henchan

Reported:
07/25/24 14:48

BKG01@6.0''
2405138-01 (Soil)

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Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHE0349	05/10/24	05/21/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	103	0.400	mg/kg dry	1	BHE0362	05/10/24	06/01/24	EPA 6020B	
Cadmium	1.03	0.200	"	"	"	"	"	"	
Copper	21.2	0.400	"	"	"	"	"	"	
Lead	36.9	0.200	"	"	"	"	"	"	
Nickel	5.24	0.400	"	"	"	"	"	"	
Silver	0.524	0.0200	"	"	"	"	"	"	
Zinc	69.7	0.400	"	"	"	"	"	"	
Selenium	0.307	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHE0351	05/10/24	05/10/24	EPA 7196A	

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

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	50.2	0.0500	mg/L dry	1	BHE0360	05/10/24	06/12/24	EPA 6020B	
Magnesium	13.1	0.0500	"	"	"	"	"	"	
Sodium	18.6	0.0500	"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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 Wellington CO, 80549

Project: Noble - Ewing Robert Fed/Robert (Background)

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 07/25/24 14:48

BKG01@6.0"
2405138-01 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.604	0.00100	units	1	BHF0327	06/12/24	06/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.7		%	1	BHE0335	05/10/24	05/10/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.160	0.0100	mmhos/cm	1	BHE0366	05/10/24	05/13/24	EPA 120.1	

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

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.16		pH Units	1	BHE0367	05/10/24	05/13/24	EPA 9045D	

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 Wellington CO, 80549

Project: Noble - Ewing Robert Fed/Robert (Background)

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 07/25/24 14:48

BKG01@6.0"
2405138-01RE1 (Soil)

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Total Metals by EPA 6020B

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	6.53	0.200	mg/kg dry	1	BHF0533	06/18/24	06/21/24	EPA 6020B	

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PO Box 1289
Wellington CO, 80549

Project: Noble - Ewing Robert Fed/Robert (Background)

Project Number: [none]
Project Manager: Paul Henchan

Reported:
07/25/24 14:48

BKG01@4.0'
2405138-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHE0349	05/10/24	05/21/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Barium	101	0.400	mg/kg dry	1	BHE0362	05/10/24	06/01/24	EPA 6020B	
Cadmium	0.224	0.200	"	"	"	"	"	"	
Copper	5.02	0.400	"	"	"	"	"	"	
Lead	10.1	0.200	"	"	"	"	"	"	
Nickel	5.87	0.400	"	"	"	"	"	"	
Silver	0.0614	0.0200	"	"	"	"	"	"	
Zinc	22.9	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHE0351	05/10/24	05/10/24	EPA 7196A	

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

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	73.7	0.0500	mg/L dry	1	BHE0360	05/10/24	06/12/24	EPA 6020B	
Magnesium	16.7	0.0500	"	"	"	"	"	"	
Sodium	12.6	0.0500	"	"	"	"	"	"	

Calculated Analysis

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Wellington CO, 80549

Project: Noble - Ewing Robert Fed/Robert (Background)

Project Number: [none]
Project Manager: Paul Henchan

Reported:
07/25/24 14:48

BKG01@4.0'
2405138-02 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.345	0.00100	units	1	BHF0327	06/12/24	06/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.1		%	1	BHE0335	05/10/24	05/10/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0512	0.0100	mmhos/cm	1	BHE0366	05/10/24	05/13/24	EPA 120.1	

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

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.21		pH Units	1	BHE0367	05/10/24	05/13/24	EPA 9045D	

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 PO Box 1289
 Wellington CO, 80549

Project: Noble - Ewing Robert Fed/Robert (Background)

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 07/25/24 14:48

BKG01@4.0'
2405138-02RE1 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.77	0.200	mg/kg dry	1	BHF0533	06/18/24	06/21/24	EPA 6020B	

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PO Box 1289
Wellington CO, 80549

Project: Noble - Ewing Robert Fed/Robert (Background)

Project Number: [none]
Project Manager: Paul Henchan

Reported:
07/25/24 14:48

BKG01@5.0'
2405138-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHE0349	05/10/24	05/21/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Barium	82.1	0.400	mg/kg dry	1	BHE0362	05/10/24	06/01/24	EPA 6020B	
Cadmium	0.207	0.200	"	"	"	"	"	"	
Copper	4.93	0.400	"	"	"	"	"	"	
Lead	8.36	0.200	"	"	"	"	"	"	
Nickel	5.12	0.400	"	"	"	"	"	"	
Silver	0.0454	0.0200	"	"	"	"	"	"	
Zinc	20.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHE0351	05/10/24	05/10/24	EPA 7196A	

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

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	84.8	0.0500	mg/L dry	1	BHE0360	05/10/24	06/12/24	EPA 6020B	
Magnesium	18.4	0.0500	"	"	"	"	"	"	
Sodium	13.5	0.0500	"	"	"	"	"	"	

Calculated Analysis

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Ewing Robert Fed/Robert (Background)

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 07/25/24 14:48

BKG01@5.0'
2405138-03 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.346	0.00100	units	1	BHF0327	06/12/24	06/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.5		%	1	BHE0335	05/10/24	05/10/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0514	0.0100	mmhos/cm	1	BHE0366	05/10/24	05/13/24	EPA 120.1	

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

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.35		pH Units	1	BHE0367	05/10/24	05/13/24	EPA 9045D	

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 PO Box 1289
 Wellington CO, 80549

Project: Noble - Ewing Robert Fed/Robert (Background)

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 07/25/24 14:48

BKG01@5.0'
2405138-03RE1 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.81	0.200	mg/kg dry	1	BHF0533	06/18/24	06/21/24	EPA 6020B	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Ewing Robert Fed/Robert (Background)

Project Number: [none]
Project Manager: Paul Henchan

Reported:
07/25/24 14:48

BKG02@6.0"
2405138-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHE0349	05/10/24	05/21/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Barium	78.1	0.400	mg/kg dry	1	BHE0362	05/10/24	06/01/24	EPA 6020B	
Cadmium	0.439	0.200	"	"	"	"	"	"	
Copper	12.0	0.400	"	"	"	"	"	"	
Lead	17.0	0.200	"	"	"	"	"	"	
Nickel	5.00	0.400	"	"	"	"	"	"	
Silver	0.183	0.0200	"	"	"	"	"	"	
Zinc	47.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHE0351	05/10/24	05/10/24	EPA 7196A	

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

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	86.8	0.0500	mg/L dry	1	BHE0360	05/10/24	06/12/24	EPA 6020B	
Magnesium	18.7	0.0500	"	"	"	"	"	"	
Sodium	13.8	0.0500	"	"	"	"	"	"	

Calculated Analysis

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Ewing Robert Fed/Robert (Background)

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 07/25/24 14:48

BKG02@6.0"
2405138-04 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.350	0.00100	units	1	BHF0327	06/12/24	06/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.6		%	1	BHE0335	05/10/24	05/10/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.260	0.0100	mmhos/cm	1	BHE0366	05/10/24	05/13/24	EPA 120.1	

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

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.40		pH Units	1	BHE0367	05/10/24	05/13/24	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 - Ewing Robert Fed/Robert (Background)

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 07/25/24 14:48

BKG02@6.0"
2405138-04RE1 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	4.09	0.200	mg/kg dry	1	BHF0533	06/18/24	06/21/24	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 - Ewing Robert Fed/Robert (Background)

Project Number: [none]
Project Manager: Paul Henchan

Reported:
07/25/24 14:48

BKG02@4.0'
2405138-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHE0349	05/10/24	05/21/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Barium	78.9	0.400	mg/kg dry	1	BHE0362	05/10/24	06/01/24	EPA 6020B	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	4.04	0.400	"	"	"	"	"	"	
Lead	6.04	0.200	"	"	"	"	"	"	
Nickel	4.05	0.400	"	"	"	"	"	"	
Silver	0.0317	0.0200	"	"	"	"	"	"	
Zinc	16.2	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHE0351	05/10/24	05/10/24	EPA 7196A	

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

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	70.8	0.0500	mg/L dry	1	BHE0360	05/10/24	06/12/24	EPA 6020B	
Magnesium	4.69	0.0500	"	"	"	"	"	"	
Sodium	44.4	0.0500	"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Ewing Robert Fed/Robert (Background)

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 07/25/24 14:48

BKG02@4.0'
2405138-05 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.38	0.00100	units	1	BHF0327	06/12/24	06/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.0		%	1	BHE0335	05/10/24	05/10/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.354	0.0100	mmhos/cm	1	BHE0366	05/10/24	05/13/24	EPA 120.1	

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

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.06		pH Units	1	BHE0367	05/10/24	05/13/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Ewing Robert Fed/Robert (Background)

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 07/25/24 14:48

BKG02@4.0'
2405138-05RE1 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.77	0.200	mg/kg dry	1	BHF0533	06/18/24	06/21/24	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 - Ewing Robert Fed/Robert (Background)

Project Number: [none]
Project Manager: Paul Henchan

Reported:
07/25/24 14:48

BKG02@5.0'
2405138-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHE0349	05/10/24	05/21/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Barium	64.6	0.400	mg/kg dry	1	BHE0362	05/10/24	06/01/24	EPA 6020B	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.83	0.400	"	"	"	"	"	"	
Lead	5.63	0.200	"	"	"	"	"	"	
Nickel	3.73	0.400	"	"	"	"	"	"	
Silver	0.0292	0.0200	"	"	"	"	"	"	
Zinc	15.1	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHE0351	05/10/24	05/10/24	EPA 7196A	

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

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	44.5	0.0500	mg/L dry	1	BHE0360	05/10/24	06/12/24	EPA 6020B	
Magnesium	4.44	0.0500	"	"	"	"	"	"	
Sodium	49.0	0.0500	"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Ewing Robert Fed/Robert (Background)

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 07/25/24 14:48

BKG02@5.0'
2405138-06 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.87	0.00100	units	1	BHF0327	06/12/24	06/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.7		%	1	BHE0335	05/10/24	05/10/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.401	0.0100	mmhos/cm	1	BHE0366	05/10/24	05/13/24	EPA 120.1	

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

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.96		pH Units	1	BHE0367	05/10/24	05/13/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Ewing Robert Fed/Robert (Background)

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 07/25/24 14:48

BKG02@5.0'
2405138-06RE1 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.62	0.200	mg/kg dry	1	BHF0533	06/18/24	06/21/24	EPA 6020B	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Ewing Robert Fed/Robert (Background)

Project Number: [none]
Project Manager: Paul Henchan

Reported:
07/25/24 14:48

BKG03@6.0"
2405138-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHE0349	05/10/24	05/21/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Barium	63.5	0.400	mg/kg dry	1	BHE0362	05/10/24	06/01/24	EPA 6020B	
Cadmium	0.629	0.200	"	"	"	"	"	"	
Copper	19.8	0.400	"	"	"	"	"	"	
Lead	30.0	0.200	"	"	"	"	"	"	
Nickel	4.05	0.400	"	"	"	"	"	"	
Silver	0.400	0.0200	"	"	"	"	"	"	
Zinc	61.9	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHE0351	05/10/24	05/10/24	EPA 7196A	

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

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	40.5	0.0500	mg/L dry	1	BHE0360	05/10/24	06/12/24	EPA 6020B	
Magnesium	10.2	0.0500	"	"	"	"	"	"	
Sodium	35.4	0.0500	"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Ewing Robert Fed/Robert (Background)

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 07/25/24 14:48

BKG03@6.0"
2405138-07 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.29	0.00100	units	1	BHF0327	06/12/24	06/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.6		%	1	BHE0335	05/10/24	05/10/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.248	0.0100	mmhos/cm	1	BHE0366	05/10/24	05/13/24	EPA 120.1	

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

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.04		pH Units	1	BHE0367	05/10/24	05/13/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Ewing Robert Fed/Robert (Background)

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 07/25/24 14:48

BKG03@6.0"
2405138-07RE1 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	4.62	0.200	mg/kg dry	1	BHF0533	06/18/24	06/21/24	EPA 6020B	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Ewing Robert Fed/Robert (Background)

Project Number: [none]
Project Manager: Paul Henchan

Reported:
07/25/24 14:48

BKG03@4.0'
2405138-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHE0349	05/10/24	05/21/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Barium	44.7	0.400	mg/kg dry	1	BHE0362	05/10/24	06/01/24	EPA 6020B	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	4.43	0.400	"	"	"	"	"	"	
Lead	6.04	0.200	"	"	"	"	"	"	
Nickel	3.40	0.400	"	"	"	"	"	"	
Silver	0.0366	0.0200	"	"	"	"	"	"	
Zinc	15.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHE0351	05/10/24	05/10/24	EPA 7196A	

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

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	32.2	0.0500	mg/L dry	1	BHE0360	05/10/24	06/12/24	EPA 6020B	
Magnesium	6.57	0.0500	"	"	"	"	"	"	
Sodium	64.2	0.0500	"	"	"	"	"	"	

Calculated Analysis

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 - Ewing Robert Fed/Robert (Background)

Project Number: [none]
Project Manager: Paul Henchan

Reported:
07/25/24 14:48

BKG03@4.0'
2405138-08 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.69	0.00100	units	1	BHF0327	06/12/24	06/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.1		%	1	BHE0335	05/10/24	05/10/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.407	0.0100	mmhos/cm	1	BHE0366	05/10/24	05/13/24	EPA 120.1	

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

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.54		pH Units	1	BHE0367	05/10/24	05/13/24	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 - Ewing Robert Fed/Robert (Background)

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 07/25/24 14:48

BKG03@4.0'
2405138-08RE1 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.03	0.200	mg/kg dry	1	BHF0533	06/18/24	06/21/24	EPA 6020B	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Ewing Robert Fed/Robert (Background)

Project Number: [none]
Project Manager: Paul Henchan

Reported:
07/25/24 14:48

BKG03@5.0'
2405138-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHE0349	05/10/24	05/21/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Barium	43.8	0.400	mg/kg dry	1	BHE0362	05/10/24	06/01/24	EPA 6020B	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	5.02	0.400	"	"	"	"	"	"	
Lead	8.43	0.200	"	"	"	"	"	"	
Nickel	2.78	0.400	"	"	"	"	"	"	
Silver	0.0629	0.0200	"	"	"	"	"	"	
Zinc	18.6	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHE0351	05/10/24	05/10/24	EPA 7196A	

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

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	26.2	0.0500	mg/L dry	1	BHE0360	05/10/24	06/12/24	EPA 6020B	
Magnesium	3.93	0.0500	"	"	"	"	"	"	
Sodium	66.3	0.0500	"	"	"	"	"	"	

Calculated Analysis

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 - Ewing Robert Fed/Robert (Background)

Project Number: [none]
Project Manager: Paul Henchan

Reported:
07/25/24 14:48

BKG03@5.0'
2405138-09 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.19	0.00100	units	1	BHF0327	06/12/24	06/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.4		%	1	BHE0335	05/10/24	05/10/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.468	0.0100	mmhos/cm	1	BHE0366	05/10/24	05/13/24	EPA 120.1	

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

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.88		pH Units	1	BHE0367	05/10/24	05/13/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Ewing Robert Fed/Robert (Background)

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 07/25/24 14:48

BKG03@5.0'
2405138-09RE1 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.21	0.200	mg/kg dry	1	BHF0533	06/18/24	06/21/24	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 - Ewing Robert Fed/Robert (Background)

Project Number: [none]
Project Manager: Paul Henchan

Reported:
07/25/24 14:48

BKG04@6.0"
2405138-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHE0349	05/10/24	05/21/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Barium	55.8	0.400	mg/kg dry	1	BHE0362	05/10/24	06/01/24	EPA 6020B	
Cadmium	0.426	0.200	"	"	"	"	"	"	
Copper	12.4	0.400	"	"	"	"	"	"	
Lead	18.7	0.200	"	"	"	"	"	"	
Nickel	3.60	0.400	"	"	"	"	"	"	
Silver	0.203	0.0200	"	"	"	"	"	"	
Zinc	46.4	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHE0351	05/10/24	05/10/24	EPA 7196A	

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

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	40.6	0.0500	mg/L dry	1	BHE0360	05/10/24	06/12/24	EPA 6020B	
Magnesium	13.5	0.0500	"	"	"	"	"	"	
Sodium	22.6	0.0500	"	"	"	"	"	"	

Calculated Analysis

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 - Ewing Robert Fed/Robert (Background)

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 07/25/24 14:48

BKG04@6.0"
2405138-10 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.785	0.00100	units	1	BHF0327	06/12/24	06/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.7		%	1	BHE0335	05/10/24	05/10/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.239	0.0100	mmhos/cm	1	BHE0366	05/10/24	05/13/24	EPA 120.1	

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

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.27		pH Units	1	BHE0367	05/10/24	05/13/24	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 - Ewing Robert Fed/Robert (Background)

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 07/25/24 14:48

BKG04@6.0"
2405138-10RE1 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.35	0.200	mg/kg dry	1	BHF0533	06/18/24	06/21/24	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 - Ewing Robert Fed/Robert (Background)

Project Number: [none]
Project Manager: Paul Henchan

Reported:
07/25/24 14:48

BKG04@4.0'
2405138-11 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHE0349	05/10/24	05/21/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Barium	42.2	0.400	mg/kg dry	1	BHE0362	05/10/24	06/01/24	EPA 6020B	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.50	0.400	"	"	"	"	"	"	
Lead	4.76	0.200	"	"	"	"	"	"	
Nickel	3.31	0.400	"	"	"	"	"	"	
Silver	0.0334	0.0200	"	"	"	"	"	"	
Zinc	13.4	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHE0351	05/10/24	05/10/24	EPA 7196A	

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

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	80.5	0.0500	mg/L dry	1	BHE0360	05/10/24	06/12/24	EPA 6020B	
Magnesium	13.3	0.0500	"	"	"	"	"	"	
Sodium	33.5	0.0500	"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Ewing Robert Fed/Robert (Background)

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 07/25/24 14:48

BKG04@4.0'
2405138-11 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.911	0.00100	units	1	BHF0327	06/12/24	06/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.5		%	1	BHE0281	05/10/24	05/10/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.242	0.0100	mmhos/cm	1	BHE0366	05/10/24	05/13/24	EPA 120.1	

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

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.07		pH Units	1	BHE0367	05/10/24	05/13/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Ewing Robert Fed/Robert (Background)

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 07/25/24 14:48

BKG04@4.0'
2405138-11RE1 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.70	0.200	mg/kg dry	1	BHF0533	06/18/24	06/21/24	EPA 6020B	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Ewing Robert Fed/Robert (Background)

Project Number: [none]
Project Manager: Paul Henchan

Reported:
07/25/24 14:48

BKG04@5.0'
2405138-12 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHE0349	05/10/24	05/21/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Barium	34.2	0.360	mg/kg dry	1	BHE0362	05/10/24	06/01/24	EPA 6020B	
Cadmium	ND	0.180	"	"	"	"	"	"	
Copper	2.76	0.360	"	"	"	"	"	"	
Lead	4.42	0.180	"	"	"	"	"	"	
Nickel	2.79	0.360	"	"	"	"	"	"	
Silver	0.0254	0.0180	"	"	"	"	"	"	
Zinc	11.7	0.360	"	"	"	"	"	"	
Selenium	ND	0.234	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHE0351	05/10/24	05/10/24	EPA 7196A	

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

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	105	0.0500	mg/L dry	1	BHE0360	05/10/24	06/12/24	EPA 6020B	
Magnesium	15.3	0.0500	"	"	"	"	"	"	
Sodium	39.3	0.0500	"	"	"	"	"	"	

Calculated Analysis

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 - Ewing Robert Fed/Robert (Background)

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 07/25/24 14:48

BKG04@5.0'
2405138-12 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.948	0.00100	units	1	BHF0327	06/12/24	06/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.9		%	1	BHE0281	05/10/24	05/10/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.283	0.0100	mmhos/cm	1	BHE0366	05/10/24	05/13/24	EPA 120.1	

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

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.04		pH Units	1	BHE0367	05/10/24	05/13/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Ewing Robert Fed/Robert (Background)

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 07/25/24 14:48

BKG04@5.0'
2405138-12RE1 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.38	0.200	mg/kg dry	1	BHF0533	06/18/24	06/21/24	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 - Ewing Robert Fed/Robert (Background)

Project Number: [none]
Project Manager: Paul Henchan

Reported:
07/25/24 14:48

BKG05@6.0"
2405138-13 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHE0349	05/10/24	05/21/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Barium	63.7	0.400	mg/kg dry	1	BHE0362	05/10/24	06/01/24	EPA 6020B	
Cadmium	0.383	0.200	"	"	"	"	"	"	
Copper	10.5	0.400	"	"	"	"	"	"	
Lead	15.4	0.200	"	"	"	"	"	"	
Nickel	4.18	0.400	"	"	"	"	"	"	
Silver	0.159	0.0200	"	"	"	"	"	"	
Zinc	42.1	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHE0351	05/10/24	05/10/24	EPA 7196A	

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

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	83.1	0.0500	mg/L dry	1	BHE0360	05/10/24	06/12/24	EPA 6020B	
Magnesium	25.3	0.0500	"	"	"	"	"	"	
Sodium	39.2	0.0500	"	"	"	"	"	"	

Calculated Analysis

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 - Ewing Robert Fed/Robert (Background)

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 07/25/24 14:48

BKG05@6.0"
2405138-13 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.966	0.00100	units	1	BHF0327	06/12/24	06/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.3		%	1	BHE0281	05/10/24	05/10/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.361	0.0100	mmhos/cm	1	BHE0366	05/10/24	05/13/24	EPA 120.1	

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

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.99		pH Units	1	BHE0367	05/10/24	05/13/24	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 - Ewing Robert Fed/Robert (Background)

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 07/25/24 14:48

BKG05@6.0"
2405138-13RE1 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.77	0.200	mg/kg dry	1	BHF0533	06/18/24	06/21/24	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 - Ewing Robert Fed/Robert (Background)

Project Number: [none]
Project Manager: Paul Henchan

Reported:
07/25/24 14:48

BKG05@4.0'
2405138-14 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHE0349	05/10/24	05/21/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Barium	50.4	0.360		mg/kg dry	1	BHE0362	05/10/24	06/01/24	EPA 6020B	
Cadmium	ND	0.180		"	"	"	"	"	"	
Copper	3.63	0.360		"	"	"	"	"	"	
Lead	5.34	0.180		"	"	"	"	"	"	
Nickel	3.30	0.360		"	"	"	"	"	"	
Silver	0.0377	0.0180		"	"	"	"	"	"	
Zinc	14.8	0.360		"	"	"	"	"	"	
Selenium	ND	0.234		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHE0351	05/10/24	05/10/24	EPA 7196A	

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

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	699	0.0500		mg/L dry	1	BHE0360	05/10/24	06/12/24	EPA 6020B	
Magnesium	27.8	0.0500		"	"	"	"	"	"	
Sodium	31.4	0.0500		"	"	"	"	"	"	

Calculated Analysis

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 - Ewing Robert Fed/Robert (Background)

Project Number: [none]
Project Manager: Paul Henchan

Reported:
07/25/24 14:48

BKG05@4.0'
2405138-14 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.317	0.00100	units	1	BHF0327	06/12/24	06/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.5		%	1	BHE0281	05/10/24	05/10/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.212	0.0100	mmhos/cm	1	BHE0366	05/10/24	05/13/24	EPA 120.1	

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

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.36		pH Units	1	BHE0367	05/10/24	05/13/24	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 - Ewing Robert Fed/Robert (Background)

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 07/25/24 14:48

BKG05@4.0'
2405138-14RE1 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.69	0.200	mg/kg dry	1	BHF0533	06/18/24	06/21/24	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 - Ewing Robert Fed/Robert (Background)

Project Number: [none]
Project Manager: Paul Henchan

Reported:
07/25/24 14:48

BKG05@5.0'
2405138-15 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHE0349	05/10/24	05/21/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Barium	43.2	0.400	mg/kg dry	1	BHE0362	05/10/24	06/01/24	EPA 6020B	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.88	0.400	"	"	"	"	"	"	
Lead	4.62	0.200	"	"	"	"	"	"	
Nickel	2.78	0.400	"	"	"	"	"	"	
Silver	0.0238	0.0200	"	"	"	"	"	"	
Zinc	12.3	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHE0351	05/10/24	05/10/24	EPA 7196A	

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

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	310	0.0500	mg/L dry	1	BHE0360	05/10/24	06/12/24	EPA 6020B	
Magnesium	20.0	0.0500	"	"	"	"	"	"	
Sodium	28.4	0.0500	"	"	"	"	"	"	

Calculated Analysis

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Project: Noble - Ewing Robert Fed/Robert (Background)

Project Number: [none]
Project Manager: Paul Henchan

Reported:
07/25/24 14:48

BKG05@5.0'
2405138-15 (Soil)

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Calculated Analysis

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.422	0.00100	units	1	BHF0327	06/12/24	06/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.2		%	1	BHE0281	05/10/24	05/10/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.174	0.0100	mmhos/cm	1	BHE0366	05/10/24	05/13/24	EPA 120.1	

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

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.56		pH Units	1	BHE0367	05/10/24	05/13/24	EPA 9045D	

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 PO Box 1289
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Project: Noble - Ewing Robert Fed/Robert (Background)

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 07/25/24 14:48

BKG05@5.0'
2405138-15RE1 (Soil)

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Total Metals by EPA 6020B

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.32	0.200	mg/kg dry	1	BHF0533	06/18/24	06/21/24	EPA 6020B	

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 PO Box 1289
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Project: Noble - Ewing Robert Fed/Robert (Background)

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 07/25/24 14:48

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

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

Batch BHE0349 - EPA 3050B

Blank (BHE0349-BLK1)

Prepared: 05/10/24 Analyzed: 05/21/24

Boron ND 2.00 mg/L

LCS (BHE0349-BS1)

Prepared: 05/10/24 Analyzed: 05/21/24

Boron 4.89 2.00 mg/L 5.00 97.8 80-120

Duplicate (BHE0349-DUP1)

Source: 2405130-01

Prepared: 05/10/24 Analyzed: 05/21/24

Boron 0.195 2.00 mg/L 0.212 8.51 20

Matrix Spike (BHE0349-MS1)

Source: 2405130-01

Prepared: 05/10/24 Analyzed: 05/21/24

Boron 5.25 2.00 mg/L 4.99 0.212 101 75-125

Matrix Spike Dup (BHE0349-MSD1)

Source: 2405130-01

Prepared: 05/10/24 Analyzed: 05/21/24

Boron 5.51 2.00 mg/L 4.99 0.212 106 75-125 4.87 25

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 PO Box 1289
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Project: Noble - Ewing Robert Fed/Robert (Background)

Project Number: [none]
 Project Manager: Paul Henchan

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Total Metals by EPA 6020B - Quality Control
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Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD		

Batch BHE0362 - EPA 3050B

Blank (BHE0362-BLK1)

Prepared: 05/10/24 Analyzed: 06/01/24

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 (BHE0362-BS1)

Prepared: 05/10/24 Analyzed: 06/01/24

Arsenic	40.7	0.200	mg/kg wet	40.0		102	80-120
Barium	36.5	0.400	"	40.0		91.2	80-120
Cadmium	1.82	0.200	"	2.00		91.0	80-120
Copper	42.4	0.400	"	40.0		106	80-120
Lead	18.6	0.200	"	20.0		92.8	80-120
Nickel	41.9	0.400	"	40.0		105	80-120
Silver	1.83	0.0200	"	2.00		91.6	80-120
Zinc	41.3	0.400	"	40.0		103	80-120
Selenium	3.98	0.260	"	4.00		99.4	80-120

Duplicate (BHE0362-DUP1)

Source: 2405138-01

Prepared: 05/10/24 Analyzed: 06/01/24

Arsenic	3.72	0.200	mg/kg dry		3.74		0.483	20
Barium	102	0.400	"		103		1.02	20
Cadmium	0.983	0.200	"		1.03		4.46	20
Copper	20.9	0.400	"		21.2		1.08	20
Lead	36.9	0.200	"		36.9		0.0595	20
Nickel	5.10	0.400	"		5.24		2.69	20
Silver	0.524	0.0200	"		0.524		0.0838	20
Zinc	67.5	0.400	"		69.7		3.14	20
Selenium	0.319	0.260	"		0.307		4.07	20

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Project: Noble - Ewing Robert Fed/Robert (Background)

Project Number: [none]
Project Manager: Paul Henchan

Reported:
07/25/24 14:48

Total Metals by EPA 6020B - Quality Control
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Analyte	Reporting			Spike	Source		%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

Batch BHE0362 - EPA 3050B

Matrix Spike (BHE0362-MS1)

Source: 2405138-01

Prepared: 05/10/24 Analyzed: 06/01/24

Arsenic	24.5	0.200	mg/kg dry	43.6	3.74	47.5	75-125				QM-07
Barium	138	0.400	"	43.6	103	80.1	75-125				
Cadmium	3.02	0.200	"	2.18	1.03	91.6	75-125				
Copper	40.9	0.400	"	43.6	21.2	45.3	75-125				QM-07
Lead	53.4	0.200	"	21.8	36.9	75.9	75-125				
Nickel	26.3	0.400	"	43.6	5.24	48.4	75-125				QM-07
Silver	2.54	0.0200	"	2.18	0.524	92.3	75-125				
Zinc	87.1	0.400	"	43.6	69.7	39.9	75-125				QM-07
Selenium	4.05	0.260	"	4.36	0.307	85.8	75-125				

Matrix Spike Dup (BHE0362-MSD1)

Source: 2405138-01

Prepared: 05/10/24 Analyzed: 06/01/24

Arsenic	24.2	0.200	mg/kg dry	43.6	3.74	46.9	75-125	1.04	25		QM-07
Barium	137	0.400	"	43.6	103	77.8	75-125	0.725	25		
Cadmium	3.00	0.200	"	2.18	1.03	90.5	75-125	0.796	25		
Copper	41.1	0.400	"	43.6	21.2	45.8	75-125	0.506	25		QM-07
Lead	53.1	0.200	"	21.8	36.9	74.4	75-125	0.595	25		QM-07
Nickel	26.3	0.400	"	43.6	5.24	48.2	75-125	0.182	25		QM-07
Silver	2.52	0.0200	"	2.18	0.524	91.6	75-125	0.586	25		
Zinc	87.1	0.400	"	43.6	69.7	40.0	75-125	0.0280	25		QM-07
Selenium	3.95	0.260	"	4.36	0.307	83.6	75-125	2.46	25		

Post Spike (BHE0362-PS1)

Source: 2405138-01

Prepared: 05/10/24 Analyzed: 06/01/24

Arsenic	60.4		ug/l	100	7.82	52.5	75-125				QM-07
Barium	315		"	100	217	98.9	75-125				
Cadmium	7.16		"	5.00	2.15	100	75-125				
Copper	100		"	100	44.3	55.8	75-125				QM-07
Lead	122		"	50.0	77.2	90.4	75-125				
Nickel	63.5		"	100	11.0	52.6	75-125				QM-07
Silver	5.92		"	5.00	1.10	96.4	75-125				
Zinc	209		"	100	146	63.7	75-125				QM-07
Selenium	10.7		"	10.0	0.642	100	75-125				

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Project: Noble - Ewing Robert Fed/Robert (Background)

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 07/25/24 14:48

Total Metals by EPA 6020B - Quality Control
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Analyte	Result	Reporting		Spike Level	Source Result	%REC		RPD		Notes
		Limit	Units			%REC	Limits	RPD	Limit	

Batch BHF0533 - EPA 3050B

Blank (BHF0533-BLK1)

Prepared: 06/18/24 Analyzed: 06/21/24

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 (BHF0533-BS1)

Prepared: 06/18/24 Analyzed: 06/21/24

Arsenic	37.0	0.200	mg/kg wet	40.0	92.5	80-120
Barium	38.6	0.400	"	40.0	96.6	80-120
Cadmium	1.93	0.200	"	2.00	96.7	80-120
Copper	41.6	0.400	"	40.0	104	80-120
Lead	19.4	0.200	"	20.0	96.9	80-120
Nickel	41.5	0.400	"	40.0	104	80-120
Silver	1.94	0.0200	"	2.00	96.8	80-120
Zinc	41.4	0.400	"	40.0	103	80-120
Selenium	3.85	0.260	"	4.00	96.2	80-120

Duplicate (BHF0533-DUP1)

Source: 2404346-01RE1

Prepared: 06/18/24 Analyzed: 06/21/24

Arsenic	2.44	0.200	mg/kg wet	2.53	3.79	20
Barium	86.8	0.400	"	79.2	9.16	20
Cadmium	0.179	0.200	"	0.178	0.581	20
Copper	4.33	0.400	"	3.94	9.63	20
Lead	6.11	0.200	"	5.76	5.83	20
Nickel	4.22	0.400	"	3.87	8.70	20
Silver	0.0256	0.0200	"	0.0245	4.48	20
Zinc	17.3	0.400	"	15.9	8.54	20
Selenium	ND	0.260	"	ND		20

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Project: Noble - Ewing Robert Fed/Robert (Background)

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 07/25/24 14:48

Total Metals by EPA 6020B - Quality Control
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Analyte	Reporting			Spike	Source		%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

Batch BHF0533 - EPA 3050B

Matrix Spike (BHF0533-MS1)

Source: 2404346-01RE1 Prepared: 06/18/24 Analyzed: 06/21/24

Arsenic	35.4	0.200	mg/kg wet	36.8	2.53	89.4	75-125			
Barium	136	0.400	"	36.8	79.2	154	75-125			QM-07
Cadmium	2.01	0.200	"	1.84	0.178	99.9	75-125			
Copper	26.1	0.400	"	36.8	3.94	60.2	75-125			QM-05
Lead	23.5	0.200	"	18.4	5.76	96.3	75-125			
Nickel	26.1	0.400	"	36.8	3.87	60.3	75-125			QM-05
Silver	1.76	0.0200	"	1.84	0.0245	94.4	75-125			
Zinc	38.8	0.400	"	36.8	15.9	62.2	75-125			QM-05
Selenium	2.92	0.260	"	3.68	ND	79.4	75-125			

Matrix Spike Dup (BHF0533-MSD1)

Source: 2404346-01RE1 Prepared: 06/18/24 Analyzed: 06/21/24

Arsenic	35.4	0.200	mg/kg wet	36.8	2.53	89.3	75-125	0.102	25	
Barium	135	0.400	"	36.8	79.2	152	75-125	0.503	25	QM-07
Cadmium	2.02	0.200	"	1.84	0.178	100	75-125	0.128	25	
Copper	26.8	0.400	"	36.8	3.94	62.2	75-125	2.82	25	QM-05
Lead	23.5	0.200	"	18.4	5.76	96.6	75-125	0.243	25	
Nickel	26.5	0.400	"	36.8	3.87	61.7	75-125	1.88	25	QM-05
Silver	1.77	0.0200	"	1.84	0.0245	94.7	75-125	0.313	25	
Zinc	39.6	0.400	"	36.8	15.9	64.3	75-125	1.99	25	QM-05
Selenium	2.81	0.260	"	3.68	ND	76.4	75-125	3.93	25	

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Project: Noble - Ewing Robert Fed/Robert (Background)

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 07/25/24 14:48

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BHE0351 - 3060A Mod

Blank (BHE0351-BLK1)

Prepared & Analyzed: 05/10/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHE0351-BS1)

Prepared & Analyzed: 05/10/24

Chromium, Hexavalent 26.1 0.30 mg/kg wet 25.0 104 80-120

Duplicate (BHE0351-DUP1)

Source: 2405138-01

Prepared & Analyzed: 05/10/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHE0351-MS1)

Source: 2405138-01

Prepared & Analyzed: 05/10/24

Chromium, Hexavalent 27.8 0.30 mg/kg dry 29.9 ND 93.2 75-125

Matrix Spike Dup (BHE0351-MSD1)

Source: 2405138-01

Prepared & Analyzed: 05/10/24

Chromium, Hexavalent 27.8 0.30 mg/kg dry 29.9 ND 93.0 75-125 0.215 20

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Project: Noble - Ewing Robert Fed/Robert (Background)

Project Number: [none]
 Project Manager: Paul Henchan

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

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

Batch BHE0360 - General Preparation

Blank (BHE0360-BLK1)

Prepared: 05/10/24 Analyzed: 06/12/24

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

LCS (BHE0360-BS1)

Prepared: 05/10/24 Analyzed: 06/12/24

Calcium	5.46	0.0500	mg/L wet	5.00		109	70-130			
Magnesium	5.42	0.0500	"	5.00		108	70-130			
Sodium	5.60	0.0500	"	5.00		112	70-130			

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Project: Noble - Ewing Robert Fed/Robert (Background)

Project Number: [none]
 Project Manager: Paul Henchan

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

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

Batch BHE0281 - General Preparation

Duplicate (BHE0281-DUP1)		Source: 2405138-11			Prepared & Analyzed: 05/10/24			
% Solids	93.9		%		94.5		0.626	20

Batch BHE0335 - General Preparation

Duplicate (BHE0335-DUP1)		Source: 2404298-03			Prepared & Analyzed: 05/10/24			
% Solids	88.3		%		88.4		0.123	20

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Project: Noble - Ewing Robert Fed/Robert (Background)

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 07/25/24 14:48

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

Summit Scientific

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

Batch BHE0366 - General Preparation

Blank (BHE0366-BLK1)

Prepared: 05/10/24 Analyzed: 05/13/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHE0366-BS1)

Prepared: 05/10/24 Analyzed: 05/13/24

Specific Conductance (EC) 0.158 0.0100 mmhos/cm 0.150 105 95-105

Duplicate (BHE0366-DUP1)

Source: 2405137-01

Prepared: 05/10/24 Analyzed: 05/13/24

Specific Conductance (EC) 0.116 0.0100 mmhos/cm 0.118 1.20 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
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Project: Noble - Ewing Robert Fed/Robert (Background)

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 07/25/24 14:48

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

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

Batch BHE0367 - General Preparation

LCS (BHE0367-BS1)

Prepared: 05/10/24 Analyzed: 05/13/24

pH	9.20	pH Units	9.18	100	95-105
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Duplicate (BHE0367-DUP1)

Source: 2405137-01

Prepared: 05/10/24 Analyzed: 05/13/24

pH	8.30	pH Units	8.41	1.32	20
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Fremont Environmental
PO Box 1289
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Project: Noble - Ewing Robert Fed/Robert (Background)

Project Number: [none]
Project Manager: Paul Henchan

Reported:
07/25/24 14:48

Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
- 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