

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

August 02, 2024

Paul Henchan

Fremont Environmental

PO Box 1289

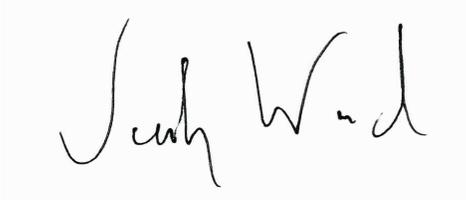
Wellington, CO 80549

RE: Noble - Farr T4N-R64W-S18 L01

Work Order #2407074

Enclosed are the results of analyses for samples received by Summit Scientific on 07/08/24 15:55. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black 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 - Farr T4N-R64W-S18 L01

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
08/02/24 14:35

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B04@13.0'	2407074-01	Soil	07/08/24 00:00	07/08/24 15:55

### Case Narrative

Rerun analyses were performed by client request on 7/24/2024.  
The rerun results included in this report are denoted with "RE#."

This is a revision of the report originally sent on 7/15/2024 at 07:42 MT.

Summit Scientific

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# SUMMIT SCIENTIFIC

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

Lab ID	Page <u>1</u> of <u>1</u>
2407074	

Send Data To:		Send Invoice To:	
Client: <u>Fremont Env</u>	Project Manager: <u>Paul Henehan</u>	Company: <u>Noble</u>	
Address:	E-Mail: <u>Paulh@fremontenv.com</u>	Project Name/Location:	
City/State/Zip:	<u>jeffj@fremontenv.com Ethanb@fremontenv.com</u>	AFE#:	
Phone:	Project Name: <u>Farr TUN-R64W-SIG LOI</u>	PO/Billing Codes:	
Sampler Name: <u>JG</u>	Project Number:	Contact:	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested						Special Instructions			
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX+N	TMBs (915)	DRD, ORD, GRO	PAHs (915)	EC, PH, SAR, BOD	Metals (915)				
1	<u>Boye 13.0'</u>	<u>7/8/24</u>		<u>2</u>			<u>X</u>				<u>X</u>				<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		
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Relinquished by: <u>[Signature]</u>	Date/Time: <u>7/8/24 15:55</u>	Received by: <u>[Signature]</u>	Date/Time: <u>7/8/24 15:55</u>	TAT Business Days	Field DO	Notes:
				Same Day <input checked="" type="checkbox"/>	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: <u>21.8</u>	Corrected Temperature _____	IR gun #: _____	HNO3 lot #: _____			

S<sub>2</sub>

Sample Receipt Checklist

S2 Work Order# 2407074

Client: Fremont

Client Project ID: Fair T4N-R64V-S18 L01

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

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

Temp (°C) 24.8

Thermometer # 2

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on site
If custody seals are present, are they intact? <sup>(1)</sup>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	same day
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <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 type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out completely? <sup>(1)</sup>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	No Sample time
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<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)? <sup>(1)</sup> 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? <sup>(1)</sup> 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):

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

J. H. U-d

Custodian Printed Name

7/8/24 15:55

Date/Time



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Farr T4N-R64W-S18 L01

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
08/02/24 14:35

**B04@13.0'**  
**2407074-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **07/08/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHG0197	07/08/24	07/08/24	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **07/08/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0347	86.8 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0395	98.8 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0408	102 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **07/08/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHG0198	"	07/08/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **07/08/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	8.05	64.4 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Wellington CO, 80549

Project: Noble - Farr T4N-R64W-S18 L01

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
08/02/24 14:35

**B04@13.0'**  
**2407074-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **07/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHG0203	07/09/24	07/09/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **07/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0160	47.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0163	48.8 %	40-150		"	"	"	"	

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

Date Sampled: **07/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHG0213	07/09/24	07/11/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **07/08/24 00:00**

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

Project: Noble - Farr T4N-R64W-S18 L01

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 08/02/24 14:35

**B04@13.0'**  
**2407074-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	25.6	0.400	mg/kg dry	1	BHG0199	07/09/24	07/11/24	EPA 6020B	
Cadmium	0.229	0.200	"	"	"	"	"	"	
Copper	6.13	0.400	"	"	"	"	"	"	
Lead	10.2	0.200	"	"	"	"	"	"	
Nickel	5.75	0.400	"	"	"	"	"	"	
Silver	0.0236	0.0200	"	"	"	"	"	"	
Zinc	31.1	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **07/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHG0219	07/09/24	07/09/24	EPA 7196A	

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

Date Sampled: **07/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	22.0	0.0500	mg/L dry	1	BHG0194	07/08/24	07/09/24	EPA 6020B	
Magnesium	26.6	0.0500	"	"	"	"	"	"	
Sodium	76.4	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **07/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.59	0.00100	units	1	BHG0260	07/10/24	07/10/24	Calculation	

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

Date Sampled: **07/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.7		%	1	BHG0212	07/09/24	07/09/24	Calculation	

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 Wellington CO, 80549

Project: Noble - Farr T4N-R64W-S18 L01

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 08/02/24 14:35

**B04@13.0'**  
**2407074-01 (Soil)**

**Summit Scientific**

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

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

Date Sampled: **07/08/24 00:00**

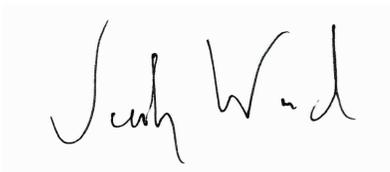
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.848</b>	0.0100	mmhos/cm	1	BHG0195	07/08/24	07/09/24	EPA 120.1	

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

Date Sampled: **07/08/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>pH</b>	<b>8.16</b>		pH Units	1	BHG0196	07/08/24	07/09/24	EPA 9045D	

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 Wellington CO, 80549

Project: Noble - Farr T4N-R64W-S18 L01

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 08/02/24 14:35

**B04@13.0'**  
**2407074-01RE1 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **07/08/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	<b>2.10</b>	0.200	mg/kg dry	1	BHG0875	07/09/24	08/02/24	EPA 6020B	

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Wellington CO, 80549

Project: Noble - Farr T4N-R64W-S18 L01

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
08/02/24 14:35

### Volatile Organic Compounds by EPA Method 8260B - Quality Control

#### Summit Scientific

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

#### Batch BHG0197 - EPA 5030 Soil MS

##### Blank (BHG0197-BLK1)

Prepared & Analyzed: 07/08/24

Benzene	ND	0.0020	mg/kg								
Toluene	ND	0.0050	"								
Ethylbenzene	ND	0.0050	"								
Xylenes (total)	ND	0.010	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
Naphthalene	ND	0.0038	"								
Gasoline Range Hydrocarbons	ND	0.50	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0299		"	0.0400		74.8	50-150				
<i>Surrogate: Toluene-d8</i>	0.0410		"	0.0400		102	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0408		"	0.0400		102	50-150				

##### LCS (BHG0197-BS1)

Prepared: 07/08/24 Analyzed: 07/09/24

Benzene	0.0855	0.0020	mg/kg	0.100		85.5	70-130				
Toluene	0.102	0.0050	"	0.100		102	70-130				
Ethylbenzene	0.100	0.0050	"	0.100		100	70-130				
m,p-Xylene	0.199	0.010	"	0.200		99.6	70-130				
o-Xylene	0.100	0.0050	"	0.100		100	70-130				
1,2,4-Trimethylbenzene	0.0967	0.0050	"	0.100		96.7	70-130				
1,3,5-Trimethylbenzene	0.0967	0.0050	"	0.100		96.7	70-130				
Naphthalene	0.0790	0.0038	"	0.100		79.0	70-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0340		"	0.0400		85.1	50-150				
<i>Surrogate: Toluene-d8</i>	0.0417		"	0.0400		104	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0397		"	0.0400		99.2	50-150				

##### Matrix Spike (BHG0197-MS1)

Source: 2407074-01

Prepared: 07/08/24 Analyzed: 07/09/24

Benzene	0.0799	0.0020	mg/kg	0.100	ND	79.9	70-130				
Toluene	0.0947	0.0050	"	0.100	ND	94.7	70-130				
Ethylbenzene	0.0916	0.0050	"	0.100	ND	91.6	70-130				
m,p-Xylene	0.177	0.010	"	0.200	ND	88.6	70-130				
o-Xylene	0.0914	0.0050	"	0.100	ND	91.4	70-130				
1,2,4-Trimethylbenzene	0.0889	0.0050	"	0.100	ND	88.9	70-130				
1,3,5-Trimethylbenzene	0.0884	0.0050	"	0.100	ND	88.4	70-130				
Naphthalene	0.0765	0.0038	"	0.100	ND	76.5	70-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0296		"	0.0400		74.0	50-150				
<i>Surrogate: Toluene-d8</i>	0.0428		"	0.0400		107	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0391		"	0.0400		97.6	50-150				

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Project: Noble - Farr T4N-R64W-S18 L01

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 08/02/24 14:35

**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 BHG0197 - EPA 5030 Soil MS**

<b>Matrix Spike Dup (BHG0197-MSD1)</b>	<b>Source: 2407074-01</b>			<b>Prepared: 07/08/24 Analyzed: 07/09/24</b>						
Benzene	0.0730	0.0020	mg/kg	0.100	ND	73.0	70-130	8.95	30	
Toluene	0.0872	0.0050	"	0.100	ND	87.2	70-130	8.35	30	
Ethylbenzene	0.0862	0.0050	"	0.100	ND	86.2	70-130	5.97	30	
m,p-Xylene	0.171	0.010	"	0.200	ND	85.5	70-130	3.62	30	
o-Xylene	0.0844	0.0050	"	0.100	ND	84.4	70-130	7.89	30	
1,2,4-Trimethylbenzene	0.0833	0.0050	"	0.100	ND	83.3	70-130	6.55	30	
1,3,5-Trimethylbenzene	0.0840	0.0050	"	0.100	ND	84.0	70-130	5.08	30	
Naphthalene	0.0698	0.0038	"	0.100	ND	69.8	70-130	9.14	30	QM-07
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0334</i>		<i>"</i>	<i>0.0400</i>		<i>83.6</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0419</i>		<i>"</i>	<i>0.0400</i>		<i>105</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0394</i>		<i>"</i>	<i>0.0400</i>		<i>98.6</i>	<i>50-150</i>			

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Project: Noble - Farr T4N-R64W-S18 L01

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 08/02/24 14:35

**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 BHG0198 - EPA 3550A**

**Blank (BHG0198-BLK1)**

Prepared & Analyzed: 07/08/24

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	12.7		"	12.5	102	30-150					

**LCS (BHG0198-BS1)**

Prepared & Analyzed: 07/08/24

C10-C28 (DRO)	488	50	mg/kg	500	97.5	70-130					
Surrogate: <i>o</i> -Terphenyl	11.9		"	12.5	95.0	30-150					

**Matrix Spike (BHG0198-MS1)**

Source: 2407074-01

Prepared & Analyzed: 07/08/24

C10-C28 (DRO)	492	50	mg/kg	500	14.4	95.5	70-130				
Surrogate: <i>o</i> -Terphenyl	8.40		"	12.5	67.2	30-150					

**Matrix Spike Dup (BHG0198-MSD1)**

Source: 2407074-01

Prepared: 07/08/24 Analyzed: 07/09/24

C10-C28 (DRO)	498	50	mg/kg	500	14.4	96.6	70-130	1.15	20		
Surrogate: <i>o</i> -Terphenyl	10.4		"	12.5	82.9	30-150					

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Farr T4N-R64W-S18 L01

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
08/02/24 14:35

**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 BHG0203 - EPA 5030 Soil MS**

**Blank (BHG0203-BLK1)**

Prepared & Analyzed: 07/09/24

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0201</i>		"	<i>0.0333</i>		<i>60.3</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0236</i>		"	<i>0.0333</i>		<i>70.8</i>	<i>40-150</i>			

**LCS (BHG0203-BS1)**

Prepared & Analyzed: 07/09/24

Acenaphthene	0.0268	0.00500	mg/kg	0.0333		80.4	31-137			
Anthracene	0.0266	0.00500	"	0.0333		79.9	30-120			
Benzo (a) anthracene	0.0292	0.00500	"	0.0333		87.7	30-120			
Benzo (a) pyrene	0.0264	0.00500	"	0.0333		79.1	30-120			
Benzo (b) fluoranthene	0.0274	0.00500	"	0.0333		82.1	30-120			
Benzo (k) fluoranthene	0.0281	0.00500	"	0.0333		84.2	30-120			
Chrysene	0.0286	0.00500	"	0.0333		85.9	30-120			
Dibenz (a,h) anthracene	0.0227	0.00500	"	0.0333		68.1	30-120			
Fluoranthene	0.0269	0.00500	"	0.0333		80.7	30-120			
Fluorene	0.0284	0.00500	"	0.0333		85.2	30-120			
Indeno (1,2,3-cd) pyrene	0.0143	0.00500	"	0.0333		42.9	30-120			
Pyrene	0.0299	0.00500	"	0.0333		89.6	35-142			
1-Methylnaphthalene	0.0211	0.00500	"	0.0333		63.2	35-142			
2-Methylnaphthalene	0.0200	0.00500	"	0.0333		60.0	35-142			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0207</i>		"	<i>0.0333</i>		<i>62.0</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0282</i>		"	<i>0.0333</i>		<i>84.7</i>	<i>40-150</i>			

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PO Box 1289  
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Project: Noble - Farr T4N-R64W-S18 L01

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
08/02/24 14:35

**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 BHG0203 - EPA 5030 Soil MS**

**Matrix Spike (BHG0203-MS1)**

Source: 2407063-01

Prepared & Analyzed: 07/09/24

Acenaphthene	0.0150	0.00500	mg/kg	0.0333	ND	45.1	31-137			
Anthracene	0.0148	0.00500	"	0.0333	ND	44.5	30-120			
Benzo (a) anthracene	0.0168	0.00500	"	0.0333	ND	50.4	30-120			
Benzo (a) pyrene	0.0147	0.00500	"	0.0333	ND	44.2	30-120			
Benzo (b) fluoranthene	0.0148	0.00500	"	0.0333	ND	44.3	30-120			
Benzo (k) fluoranthene	0.0153	0.00500	"	0.0333	ND	46.0	30-120			
Chrysene	0.0164	0.00500	"	0.0333	ND	49.2	30-120			
Dibenz (a,h) anthracene	0.0156	0.00500	"	0.0333	ND	46.8	30-120			
Fluoranthene	0.0145	0.00500	"	0.0333	ND	43.6	30-120			
Fluorene	0.0153	0.00500	"	0.0333	ND	46.0	30-120			
Indeno (1,2,3-cd) pyrene	0.0176	0.00500	"	0.0333	ND	52.8	30-120			
Pyrene	0.0174	0.00500	"	0.0333	ND	52.2	35-142			
1-Methylnaphthalene	0.0147	0.00500	"	0.0333	ND	44.2	15-130			
2-Methylnaphthalene	0.0144	0.00500	"	0.0333	ND	43.1	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0134		"	0.0333		40.2	40-150			
Surrogate: Fluoranthene-d10	0.0155		"	0.0333		46.6	40-150			

**Matrix Spike Dup (BHG0203-MSD1)**

Source: 2407063-01

Prepared & Analyzed: 07/09/24

Acenaphthene	0.0163	0.00500	mg/kg	0.0333	ND	48.8	31-137	7.94	30
Anthracene	0.0159	0.00500	"	0.0333	ND	47.8	30-120	7.17	30
Benzo (a) anthracene	0.0189	0.00500	"	0.0333	ND	56.7	30-120	11.7	30
Benzo (a) pyrene	0.0165	0.00500	"	0.0333	ND	49.6	30-120	11.6	30
Benzo (b) fluoranthene	0.0168	0.00500	"	0.0333	ND	50.3	30-120	12.6	30
Benzo (k) fluoranthene	0.0174	0.00500	"	0.0333	ND	52.2	30-120	12.7	30
Chrysene	0.0182	0.00500	"	0.0333	ND	54.6	30-120	10.4	30
Dibenz (a,h) anthracene	0.0143	0.00500	"	0.0333	ND	43.0	30-120	8.33	30
Fluoranthene	0.0154	0.00500	"	0.0333	ND	46.2	30-120	5.97	30
Fluorene	0.0164	0.00500	"	0.0333	ND	49.1	30-120	6.65	30
Indeno (1,2,3-cd) pyrene	0.0143	0.00500	"	0.0333	ND	42.9	30-120	20.5	30
Pyrene	0.0190	0.00500	"	0.0333	ND	57.0	35-142	8.71	30
1-Methylnaphthalene	0.0146	0.00500	"	0.0333	ND	43.9	15-130	0.563	50
2-Methylnaphthalene	0.0141	0.00500	"	0.0333	ND	42.3	15-130	1.88	50
Surrogate: 2-Methylnaphthalene-d10	0.0166		"	0.0333		49.9	40-150		
Surrogate: Fluoranthene-d10	0.0162		"	0.0333		48.6	40-150		

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Project: Noble - Farr T4N-R64W-S18 L01

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 08/02/24 14:35

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

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

**Batch BHG0213 - EPA 3050B**

<b>Blank (BHG0213-BLK1)</b>				Prepared: 07/09/24 Analyzed: 07/11/24						
Boron	ND	2.00	mg/L							
<b>LCS (BHG0213-BS1)</b>				Prepared: 07/09/24 Analyzed: 07/11/24						
Boron	4.92	2.00	mg/L	5.00		98.4	80-120			
<b>Duplicate (BHG0213-DUP1)</b>				Source: 2407061-01 Prepared: 07/09/24 Analyzed: 07/11/24						
Boron	0.259	2.00	mg/L		0.182			34.9	20	QR-02
<b>Matrix Spike (BHG0213-MS1)</b>				Source: 2407061-01 Prepared: 07/09/24 Analyzed: 07/11/24						
Boron	5.22	2.00	mg/L	5.01	0.182	101	75-125			
<b>Matrix Spike Dup (BHG0213-MSD1)</b>				Source: 2407061-01 Prepared: 07/09/24 Analyzed: 07/11/24						
Boron	5.36	2.00	mg/L	5.01	0.182	103	75-125	2.70	25	

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Project: Noble - Farr T4N-R64W-S18 L01

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
08/02/24 14:35

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BHG0199 - EPA 3050B**

**Blank (BHG0199-BLK1)**

Prepared: 07/09/24 Analyzed: 07/10/24

Analyte	Result	Limit	Units
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 (BHG0199-BS1)**

Prepared: 07/09/24 Analyzed: 07/11/24

Analyte	Result	Limit	Units	Spike Level	%REC	Limits
Arsenic	36.6	0.200	mg/kg wet	40.0	91.5	80-120
Barium	37.9	0.400	"	40.0	94.8	80-120
Cadmium	1.90	0.200	"	2.00	95.1	80-120
Copper	40.8	0.400	"	40.0	102	80-120
Lead	19.3	0.200	"	20.0	96.6	80-120
Nickel	40.5	0.400	"	40.0	101	80-120
Silver	1.90	0.0200	"	2.00	94.8	80-120
Zinc	40.3	0.400	"	40.0	101	80-120
Selenium	4.13	0.260	"	4.00	103	80-120

**Duplicate (BHG0199-DUP1)**

Source: 2407074-01

Prepared: 07/09/24 Analyzed: 07/11/24

Analyte	Result	Limit	Units	Spike Level	%REC	Limits
Arsenic	2.33	0.200	mg/kg dry	2.43	3.91	20
Barium	26.5	0.400	"	25.6	3.40	20
Cadmium	0.255	0.200	"	0.229	10.9	20
Copper	6.29	0.400	"	6.13	2.62	20
Lead	10.4	0.200	"	10.2	2.49	20
Nickel	5.75	0.400	"	5.75	0.00285	20
Silver	0.0265	0.0200	"	0.0236	11.5	20
Zinc	31.6	0.400	"	31.1	1.51	20
Selenium	ND	0.260	"	ND		20

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Farr T4N-R64W-S18 L01

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
08/02/24 14:35

**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 BHG0199 - EPA 3050B**

**Matrix Spike (BHG0199-MS1)**

Source: 2407074-01

Prepared: 07/09/24 Analyzed: 07/11/24

Arsenic	43.9	0.200	mg/kg dry	44.9	2.43	92.4	75-125			
Barium	75.3	0.400	"	44.9	25.6	111	75-125			
Cadmium	2.44	0.200	"	2.24	0.229	98.3	75-125			
Copper	27.3	0.400	"	44.9	6.13	47.2	75-125			QM-05
Lead	31.0	0.200	"	22.4	10.2	92.5	75-125			
Nickel	27.2	0.400	"	44.9	5.75	47.9	75-125			QM-05
Silver	2.17	0.0200	"	2.24	0.0236	95.4	75-125			
Zinc	51.4	0.400	"	44.9	31.1	45.2	75-125			QM-05
Selenium	4.14	0.260	"	4.49	ND	92.2	75-125			

**Matrix Spike Dup (BHG0199-MSD1)**

Source: 2407074-01

Prepared: 07/09/24 Analyzed: 07/11/24

Arsenic	42.6	0.200	mg/kg dry	45.2	2.43	88.8	75-125	3.00	25	
Barium	65.4	0.400	"	45.2	25.6	88.0	75-125	14.2	25	
Cadmium	2.45	0.200	"	2.26	0.229	98.2	75-125	0.644	25	
Copper	27.0	0.400	"	45.2	6.13	46.2	75-125	1.08	25	QM-05
Lead	30.7	0.200	"	22.6	10.2	90.6	75-125	0.880	25	
Nickel	26.8	0.400	"	45.2	5.75	46.5	75-125	1.70	25	QM-05
Silver	2.17	0.0200	"	2.26	0.0236	95.0	75-125	0.277	25	
Zinc	50.7	0.400	"	45.2	31.1	43.2	75-125	1.51	25	QM-05
Selenium	4.67	0.260	"	4.52	ND	103	75-125	12.1	25	

**Batch BHG0875 - EPA 3050B**

**Blank (BHG0875-BLK1)**

Prepared: 07/30/24 Analyzed: 08/02/24

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	"							

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Fremont Environmental  
PO Box 1289  
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Project: Noble - Farr T4N-R64W-S18 L01

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
08/02/24 14:35

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BHG0875 - EPA 3050B**

**LCS (BHG0875-BS1)**

Prepared: 07/30/24 Analyzed: 08/02/24

Arsenic	36.7	0.200	mg/kg wet	37.3		98.3	80-120			
Barium	35.3	0.400	"	37.3		94.5	80-120			
Cadmium	1.79	0.200	"	1.87		95.8	80-120			
Copper	37.2	0.400	"	37.3		99.7	80-120			
Lead	17.2	0.200	"	18.7		92.4	80-120			
Nickel	37.7	0.400	"	37.3		101	80-120			
Silver	1.79	0.0200	"	1.87		95.9	80-120			
Zinc	37.2	0.400	"	37.3		99.7	80-120			
Selenium	3.76	0.260	"	3.73		101	80-120			

**Duplicate (BHG0875-DUP1)**

Source: 2407031-01RE1

Prepared: 07/30/24 Analyzed: 08/02/24

Arsenic	2.94	0.200	mg/kg wet		3.08			4.67	20	
Barium	47.2	0.400	"		72.6			42.4	20	QR-02
Cadmium	0.158	0.200	"		0.165			4.32	20	
Copper	3.55	0.400	"		3.52			0.938	20	
Lead	7.00	0.200	"		7.11			1.60	20	
Nickel	4.17	0.400	"		4.15			0.461	20	
Silver	0.0109	0.0200	"		0.0103			5.63	20	
Zinc	16.6	0.400	"		16.5			0.526	20	
Selenium	ND	0.260	"		ND				20	

**Matrix Spike (BHG0875-MS1)**

Source: 2407031-01RE1

Prepared: 07/30/24 Analyzed: 08/02/24

Arsenic	37.2	0.200	mg/kg wet	36.8	3.08	92.8	75-125			
Barium	76.7	0.400	"	36.8	72.6	11.2	75-125			QM-07
Cadmium	1.69	0.200	"	1.84	0.165	82.7	75-125			
Copper	21.0	0.400	"	36.8	3.52	47.6	75-125			QM-05
Lead	23.8	0.200	"	18.4	7.11	91.0	75-125			
Nickel	21.9	0.400	"	36.8	4.15	48.2	75-125			QM-05
Silver	1.49	0.0200	"	1.84	0.0103	80.6	75-125			
Zinc	33.8	0.400	"	36.8	16.5	47.2	75-125			QM-05
Selenium	3.66	0.260	"	3.68	ND	99.5	75-125			

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Project: Noble - Farr T4N-R64W-S18 L01

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 08/02/24 14:35

**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 BHG0875 - EPA 3050B**

<b>Matrix Spike Dup (BHG0875-MSD1)</b>	<b>Source: 2407031-01RE1</b>			Prepared: 07/30/24		Analyzed: 08/02/24					
Arsenic	36.2	0.180	mg/kg wet	36.0	3.08	92.0	75-125	2.76	25		
Barium	73.7	0.360	"	36.0	72.6	3.10	75-125	3.97	25	QM-07	
Cadmium	1.63	0.180	"	1.80	0.165	81.4	75-125	3.41	25		
Copper	20.9	0.360	"	36.0	3.52	48.2	75-125	0.873	25	QM-05	
Lead	22.8	0.180	"	18.0	7.11	87.1	75-125	4.57	25		
Nickel	21.7	0.360	"	36.0	4.15	48.7	75-125	0.881	25	QM-05	
Silver	1.48	0.0180	"	1.80	0.0103	81.4	75-125	1.15	25		
Zinc	33.4	0.360	"	36.0	16.5	47.1	75-125	1.24	25	QM-05	
Selenium	3.50	0.234	"	3.60	ND	97.4	75-125	4.29	25		

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Farr T4N-R64W-S18 L01

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 08/02/24 14:35

**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 BHG0219 - 3060A Mod**

**Blank (BHG0219-BLK1)**

Prepared & Analyzed: 07/09/24

Chromium, Hexavalent      ND      0.30    mg/kg wet

**LCS (BHG0219-BS1)**

Prepared & Analyzed: 07/09/24

Chromium, Hexavalent      25.3      0.30    mg/kg wet      25.0      101      80-120

**Duplicate (BHG0219-DUP1)**

**Source: 2407068-01**

Prepared & Analyzed: 07/09/24

Chromium, Hexavalent      ND      0.30    mg/kg dry      ND      20

**Matrix Spike (BHG0219-MS1)**

**Source: 2407068-01**

Prepared & Analyzed: 07/09/24

Chromium, Hexavalent      27.2      0.30    mg/kg dry      28.1      ND      97.0      75-125

**Matrix Spike Dup (BHG0219-MSD1)**

**Source: 2407068-01**

Prepared & Analyzed: 07/09/24

Chromium, Hexavalent      27.6      0.30    mg/kg dry      28.1      ND      98.4      75-125      1.43      20

Summit Scientific

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 Wellington CO, 80549

Project: Noble - Farr T4N-R64W-S18 L01

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 08/02/24 14:35

**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 BHG0194 - General Preparation**

**Blank (BHG0194-BLK1)**

Prepared: 07/08/24 Analyzed: 07/09/24

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

**LCS (BHG0194-BS1)**

Prepared: 07/08/24 Analyzed: 07/09/24

Calcium	5.15	0.0500	mg/L wet	5.00		103	70-130			
Magnesium	4.89	0.0500	"	5.00		97.9	70-130			
Sodium	5.01	0.0500	"	5.00		100	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 - Farr T4N-R64W-S18 L01

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 08/02/24 14:35

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

**Summit Scientific**

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

**Batch BHG0212 - General Preparation**

**Duplicate (BHG0212-DUP2)**

**Source: 2406397-02**

Prepared & Analyzed: 07/09/24

% Solids	96.3		%		96.3			0.0690	20	
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Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Farr T4N-R64W-S18 L01

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 08/02/24 14:35

**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			%REC	Limits	RPD	Limit	

**Batch BHG0195 - General Preparation**

**Blank (BHG0195-BLK1)**

Prepared: 07/08/24 Analyzed: 07/09/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BHG0195-BS1)**

Prepared: 07/08/24 Analyzed: 07/09/24

Specific Conductance (EC) 0.153 0.0100 mmhos/cm 0.150 102 95-105

**Duplicate (BHG0195-DUP1)**

**Source: 2407074-01**

Prepared: 07/08/24 Analyzed: 07/09/24

Specific Conductance (EC) 0.825 0.0100 mmhos/cm 0.848 2.79 20

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Farr T4N-R64W-S18 L01

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 08/02/24 14:35

**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 BHG0196 - General Preparation**

**LCS (BHG0196-BS1)**

Prepared: 07/08/24 Analyzed: 07/09/24

pH	9.19	pH Units	9.18	100	95-105
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**Duplicate (BHG0196-DUP1)**

Source: 2407074-01

Prepared: 07/08/24 Analyzed: 07/09/24

pH	8.17	pH Units	8.16	0.122	20
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Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Farr T4N-R64W-S18 L01

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
08/02/24 14:35

### Notes and Definitions

- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
- 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