

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 - Wells Ranch BB03 Econode

Work Order #2407256

Enclosed are the results of analyses for samples received by Summit Scientific on 07/19/24 09:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury

President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Wells Ranch BB03 Econode

Project Number: [none]
Project Manager: Paul Henchan

Reported:
07/25/24 12:10

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Waste Char	2407256-01	Soil	07/18/24 00:00	07/19/24 09:00

Summit Scientific

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Summit Scientific

2407254

S₂

4653 Table Mountain Drive ♦ Golden, Colorado 80403
303-277-9310

Page 1 of 1

Client: Fremont Environmental Inc.

Project Manager: Paul Henchan

Address:

E-Mail: CHEVRON

City/State/Zip:

Phone:

Project Name: WELLS RANCH BBO3 ECONODE

Sampler Name: HENEHAN

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested							Special Instructions		
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	GBTEXN+TMBS	DRO, RRO	PAHs	pH, EC, SAR	Boron	9/15-1 metals	Arsenic		BTEXN + TMBS	TDS, Cl, Su
1	WASTE CHAR	7/18/24		2			✓		✓													✓
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						

Relinquished by: <i>PAH</i>	Date/Time: 7/19/24 09:00	Received by: <i>ARL</i>	Date/Time: 7/19/24 09:00	Turn Around Time (Check)	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day <input type="checkbox"/>	72 hours <input type="checkbox"/>
				24 hours <input type="checkbox"/>	Standard <input type="checkbox"/>
				48 hours <input checked="" type="checkbox"/>	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity:	
				Temperature Upon Receipt: 8.0	
				Samples Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

S₂

Sample Receipt Checklist

S2 Work Order# 2407256

Client: Fremont Client Project ID: Wells Ranch B303 Ecocode

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

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

Temp (°C)

Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on ice
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	48 hrs
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Comments (if any):

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

Custodian Printed Name

7/19/24

Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Wells Ranch BB03 Econode

Project Number: [none]
Project Manager: Paul Henchan

Reported:
07/25/24 12:10

Waste Char
2407256-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

PRELM

Date Sampled: **07/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.012	0.0020	mg/kg	1	BHG0608	07/22/24	07/23/24	EPA 8260B	
Toluene	0.28	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.041	0.0050	"	"	"	"	"	"	
Xylenes (total)	21	0.10	"	10	"	"	07/23/24	"	E
1,2,4-Trimethylbenzene	8.5	0.050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.80	0.0050	"	1	"	"	07/23/24	"	E
Naphthalene	0.29	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	600	5.0	"	10	"	"	07/23/24	"	

Date Sampled: **07/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0265	66.2 %	50-150	"	"	"	07/23/24	"	
Surrogate: Toluene-d8	0.118	296 %	50-150	"	"	"	"	"	S-02
Surrogate: 4-Bromofluorobenzene	0.110	274 %	50-150	"	"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	640	50	mg/kg	1	BHG0611	07/22/24	07/23/24	EPA 8015M	
C28-C36 (ORO)	85	50	"	"	"	"	"	"	

Date Sampled: **07/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	8.75	70.0 %	30-150	"	"	"	"	"	

PAH by EPA Method 8270D SIM

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Project Manager: Paul Henchan

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Waste Char
2407256-01 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **07/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHG0564	07/22/24	07/24/24	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	0.00829	0.00500	"	"	"	"	"	"	
Fluorene	0.0742	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.650	0.00500	"	"	"	"	"	"	E
2-Methylnaphthalene	0.898	0.00500	"	"	"	"	"	"	E

Date Sampled: **07/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0170	51.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0212	63.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **07/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHG0578	07/22/24	07/23/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **07/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Manager: Paul Henchan

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07/25/24 12:10

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2407256-01 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	2.54	0.200	mg/kg dry	1	BHG0589	07/22/24	07/23/24	EPA 6020B
Barium	65.5	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.06	0.400	"	"	"	"	"	"
Lead	4.55	0.200	"	"	"	"	"	"
Nickel	2.68	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	12.7	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **07/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHG0569	07/22/24	07/23/24	EPA 7196A	

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

Date Sampled: **07/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	71.5	0.0500	mg/L dry	1	BHG0568	07/22/24	07/23/24	EPA 6020B	
Magnesium	12.6	0.0500	"	"	"	"	"	"	
Sodium	21.7	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **07/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.622	0.00100	units	1	BHG0651	07/23/24	07/23/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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 Project Manager: Paul Henchan

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 07/25/24 12:10

Waste Char
2407256-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.0		%	1	BHG0563	07/22/24	07/23/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.342	0.0100	mmhos/cm	1	BHG0571	07/22/24	07/22/24	EPA 120.1	

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

Date Sampled: **07/18/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.06		pH Units	1	BHG0570	07/22/24	07/22/24	EPA 9045D	

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Project Number: [none]
Project Manager: Paul Henchan

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07/25/24 12:10

Volatile Organic Compounds by EPA Method 8260B - Quality Control

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

Batch BHG0608 - EPA 5030 Soil MS

Blank (BHG0608-BLK1)

Prepared: 07/22/24 Analyzed: 07/23/24

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>	0.0400		"	0.0400		100	50-150			
<i>Surrogate: Toluene-d8</i>	0.0392		"	0.0400		97.9	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0399		"	0.0400		99.8	50-150			

LCS (BHG0608-BS1)

Prepared: 07/22/24 Analyzed: 07/23/24

Benzene	0.0820	0.0020	mg/kg	0.100		82.0	70-130			
Toluene	0.0973	0.0050	"	0.100		97.3	70-130			
Ethylbenzene	0.0886	0.0050	"	0.100		88.6	70-130			
m,p-Xylene	0.178	0.010	"	0.200		89.2	70-130			
o-Xylene	0.0888	0.0050	"	0.100		88.8	70-130			
1,2,4-Trimethylbenzene	0.0823	0.0050	"	0.100		82.3	70-130			
1,3,5-Trimethylbenzene	0.0818	0.0050	"	0.100		81.8	70-130			
Naphthalene	0.0745	0.0038	"	0.100		74.5	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0471		"	0.0400		118	50-150			
<i>Surrogate: Toluene-d8</i>	0.0428		"	0.0400		107	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0417		"	0.0400		104	50-150			

Matrix Spike (BHG0608-MS1)

Source: 2407276-01

Prepared: 07/22/24 Analyzed: 07/23/24

Benzene	0.0561	0.0020	mg/kg	0.100	ND	56.1	70-130			QM-07
Toluene	0.0679	0.0050	"	0.100	ND	67.9	70-130			QM-07
Ethylbenzene	0.0701	0.0050	"	0.100	ND	70.1	70-130			
m,p-Xylene	0.123	0.010	"	0.200	ND	61.7	70-130			QM-07
o-Xylene	0.0685	0.0050	"	0.100	ND	68.5	70-130			QM-07
1,2,4-Trimethylbenzene	0.0474	0.0050	"	0.100	ND	47.4	70-130			QM-07
1,3,5-Trimethylbenzene	0.0708	0.0050	"	0.100	ND	70.8	70-130			
Naphthalene	0.00915	0.0038	"	0.100	ND	9.15	70-130			QM-07
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0410		"	0.0400		102	50-150			
<i>Surrogate: Toluene-d8</i>	0.0413		"	0.0400		103	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0382		"	0.0400		95.6	50-150			

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Project: Noble - Wells Ranch BB03 Econode

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 07/25/24 12:10

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 BHG0608 - EPA 5030 Soil MS

Matrix Spike Dup (BHG0608-MSD1)	Source: 2407276-01			Prepared: 07/22/24 Analyzed: 07/23/24						
Benzene	0.0503	0.0020	mg/kg	0.100	ND	50.3	70-130	10.9	30	QM-07
Toluene	0.0602	0.0050	"	0.100	ND	60.2	70-130	12.0	30	QM-07
Ethylbenzene	0.0651	0.0050	"	0.100	ND	65.1	70-130	7.37	30	QM-07
m,p-Xylene	0.119	0.010	"	0.200	ND	59.7	70-130	3.39	30	QM-07
o-Xylene	0.0674	0.0050	"	0.100	ND	67.4	70-130	1.55	30	QM-07
1,2,4-Trimethylbenzene	0.0485	0.0050	"	0.100	ND	48.5	70-130	2.19	30	QM-07
1,3,5-Trimethylbenzene	0.0673	0.0050	"	0.100	ND	67.3	70-130	5.08	30	QM-07
Naphthalene	0.00600	0.0038	"	0.100	ND	6.00	70-130	41.6	30	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.0389		"	0.0400		97.4	50-150			
Surrogate: Toluene-d8	0.0397		"	0.0400		99.2	50-150			
Surrogate: 4-Bromofluorobenzene	0.0385		"	0.0400		96.2	50-150			

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Project Number: [none]
Project Manager: Paul Henchan

Reported:
07/25/24 12:10

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 BHG0611 - EPA 3550A

Blank (BHG0611-BLK1)

Prepared: 07/22/24 Analyzed: 07/23/24

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	12.1		"	12.5		96.6	30-150				

LCS (BHG0611-BS1)

Prepared: 07/22/24 Analyzed: 07/23/24

C10-C28 (DRO)	453	50	mg/kg	500		90.5	70-130				
Surrogate: <i>o</i> -Terphenyl	11.9		"	12.5		95.0	30-150				

Matrix Spike (BHG0611-MS1)

Source: 2407276-01

Prepared: 07/22/24 Analyzed: 07/23/24

C10-C28 (DRO)	431	50	mg/kg	500	ND	86.2	70-130				
Surrogate: <i>o</i> -Terphenyl	8.75		"	12.5		70.0	30-150				

Matrix Spike Dup (BHG0611-MSD1)

Source: 2407276-01

Prepared: 07/22/24 Analyzed: 07/23/24

C10-C28 (DRO)	418	50	mg/kg	500	ND	83.5	70-130	3.14	20		
Surrogate: <i>o</i> -Terphenyl	7.84		"	12.5		62.7	30-150				

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Project: Noble - Wells Ranch BB03 Econode

Project Number: [none]
Project Manager: Paul Henchan

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07/25/24 12:10

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHG0564 - EPA 5030 Soil MS

Blank (BHG0564-BLK1)

Prepared: 07/22/24 Analyzed: 07/23/24

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0261		"	0.0333		78.3	40-150			
Surrogate: Fluoranthene-d10	0.0261		"	0.0333		78.3	40-150			

LCS (BHG0564-BS1)

Prepared: 07/22/24 Analyzed: 07/23/24

Acenaphthene	0.0250	0.00500	mg/kg	0.0333		75.0	31-137			
Anthracene	0.0247	0.00500	"	0.0333		74.1	30-120			
Benzo (a) anthracene	0.0240	0.00500	"	0.0333		72.0	30-120			
Benzo (a) pyrene	0.0261	0.00500	"	0.0333		78.3	30-120			
Benzo (b) fluoranthene	0.0295	0.00500	"	0.0333		88.5	30-120			
Benzo (k) fluoranthene	0.0280	0.00500	"	0.0333		84.0	30-120			
Chrysene	0.0255	0.00500	"	0.0333		76.6	30-120			
Dibenz (a,h) anthracene	0.0222	0.00500	"	0.0333		66.7	30-120			
Fluoranthene	0.0230	0.00500	"	0.0333		69.1	30-120			
Fluorene	0.0245	0.00500	"	0.0333		73.6	30-120			
Indeno (1,2,3-cd) pyrene	0.0187	0.00500	"	0.0333		56.1	30-120			
Pyrene	0.0301	0.00500	"	0.0333		90.4	35-142			
1-Methylnaphthalene	0.0222	0.00500	"	0.0333		66.7	35-142			
2-Methylnaphthalene	0.0221	0.00500	"	0.0333		66.3	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0209		"	0.0333		62.6	40-150			
Surrogate: Fluoranthene-d10	0.0230		"	0.0333		69.1	40-150			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Wells Ranch BB03 Econode

Project Number: [none]
Project Manager: Paul Henchan

Reported:
07/25/24 12:10

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 BHG0564 - EPA 5030 Soil MS

Matrix Spike (BHG0564-MS1)

Source: 2407248-01

Prepared: 07/22/24 Analyzed: 07/23/24

Acenaphthene	0.0175	0.00500	mg/kg	0.0333	ND	52.5	31-137			
Anthracene	0.0158	0.00500	"	0.0333	ND	47.5	30-120			
Benzo (a) anthracene	0.0165	0.00500	"	0.0333	ND	49.5	30-120			
Benzo (a) pyrene	0.0157	0.00500	"	0.0333	ND	47.1	30-120			
Benzo (b) fluoranthene	0.0162	0.00500	"	0.0333	ND	48.6	30-120			
Benzo (k) fluoranthene	0.0163	0.00500	"	0.0333	ND	49.0	30-120			
Chrysene	0.0150	0.00500	"	0.0333	ND	45.1	30-120			
Dibenz (a,h) anthracene	0.0137	0.00500	"	0.0333	ND	41.0	30-120			
Fluoranthene	0.0156	0.00500	"	0.0333	ND	46.8	30-120			
Fluorene	0.0173	0.00500	"	0.0333	ND	51.9	30-120			
Indeno (1,2,3-cd) pyrene	0.0162	0.00500	"	0.0333	ND	48.5	30-120			
Pyrene	0.0136	0.00500	"	0.0333	ND	40.9	35-142			
1-Methylnaphthalene	0.0154	0.00500	"	0.0333	ND	46.1	15-130			
2-Methylnaphthalene	0.0153	0.00500	"	0.0333	ND	45.9	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0141		"	0.0333		42.3	40-150			
Surrogate: Fluoranthene-d10	0.0153		"	0.0333		45.9	40-150			

Matrix Spike Dup (BHG0564-MSD1)

Source: 2407248-01

Prepared: 07/22/24 Analyzed: 07/23/24

Acenaphthene	0.0183	0.00500	mg/kg	0.0333	ND	55.0	31-137	4.53	30	
Anthracene	0.0166	0.00500	"	0.0333	ND	49.8	30-120	4.67	30	
Benzo (a) anthracene	0.0175	0.00500	"	0.0333	ND	52.6	30-120	6.14	30	
Benzo (a) pyrene	0.0159	0.00500	"	0.0333	ND	47.7	30-120	1.40	30	
Benzo (b) fluoranthene	0.0161	0.00500	"	0.0333	ND	48.4	30-120	0.526	30	
Benzo (k) fluoranthene	0.0167	0.00500	"	0.0333	ND	50.0	30-120	2.09	30	
Chrysene	0.0158	0.00500	"	0.0333	ND	47.3	30-120	4.78	30	
Dibenz (a,h) anthracene	0.0153	0.00500	"	0.0333	ND	45.9	30-120	11.1	30	
Fluoranthene	0.0163	0.00500	"	0.0333	ND	48.8	30-120	4.19	30	
Fluorene	0.0175	0.00500	"	0.0333	ND	52.6	30-120	1.43	30	
Indeno (1,2,3-cd) pyrene	0.0184	0.00500	"	0.0333	ND	55.3	30-120	13.2	30	
Pyrene	0.0158	0.00500	"	0.0333	ND	47.4	35-142	14.7	30	
1-Methylnaphthalene	0.0168	0.00500	"	0.0333	ND	50.3	15-130	8.66	50	
2-Methylnaphthalene	0.0166	0.00500	"	0.0333	ND	49.8	15-130	8.23	50	
Surrogate: 2-Methylnaphthalene-d10	0.0154		"	0.0333		46.3	40-150			
Surrogate: Fluoranthene-d10	0.0163		"	0.0333		49.0	40-150			

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Wells Ranch BB03 Econode

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 07/25/24 12:10

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

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

Batch BHG0578 - EPA 3050B

Blank (BHG0578-BLK1)

Prepared: 07/22/24 Analyzed: 07/23/24

Boron ND 2.00 mg/L

LCS (BHG0578-BS1)

Prepared: 07/22/24 Analyzed: 07/23/24

Boron 5.55 2.00 mg/L 5.00 111 80-120

Duplicate (BHG0578-DUP1)

Source: 2407248-01

Prepared: 07/22/24 Analyzed: 07/23/24

Boron 1.73 2.00 mg/L 1.03 50.4 20 QR-01

Matrix Spike (BHG0578-MS1)

Source: 2407248-01

Prepared: 07/22/24 Analyzed: 07/23/24

Boron 6.21 2.00 mg/L 4.99 1.03 104 75-125

Matrix Spike Dup (BHG0578-MSD1)

Source: 2407248-01

Prepared: 07/22/24 Analyzed: 07/23/24

Boron 6.34 2.00 mg/L 4.99 1.03 106 75-125 1.94 25

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Wells Ranch BB03 Econode

Project Number: [none]
Project Manager: Paul Henchan

Reported:
07/25/24 12:10

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 BHG0589 - EPA 3050B

Blank (BHG0589-BLK1)

Prepared: 07/22/24 Analyzed: 07/23/24

Arsenic	ND	0.200	mg/kg wet							
Barium	ND	0.400	"							
Lead	ND	0.200	"							

LCS (BHG0589-BS1)

Prepared: 07/22/24 Analyzed: 07/23/24

Arsenic	36.0	0.200	mg/kg wet	37.6		95.7	80-120			
Barium	44.0	0.400	"	37.6		117	80-120			
Lead	17.6	0.200	"	18.8		93.5	80-120			

Duplicate (BHG0589-DUP1)

Source: 2407250-01

Prepared: 07/22/24 Analyzed: 07/23/24

Arsenic	3.75	0.200	mg/kg dry		3.43			9.02	20	
Barium	233	0.400	"		226			2.92	20	
Lead	11.4	0.200	"		10.4			9.12	20	

Matrix Spike (BHG0589-MS1)

Source: 2407250-01

Prepared: 07/22/24 Analyzed: 07/23/24

Arsenic	45.8	0.200	mg/kg dry	43.4	3.43	97.5	75-125			
Barium	276	0.400	"	43.4	226	116	75-125			
Lead	31.3	0.200	"	21.7	10.4	96.1	75-125			

Matrix Spike Dup (BHG0589-MSD1)

Source: 2407250-01

Prepared: 07/22/24 Analyzed: 07/23/24

Arsenic	44.1	0.200	mg/kg dry	43.8	3.43	92.8	75-125	3.75	25	
Barium	264	0.400	"	43.8	226	86.6	75-125	4.59	25	
Lead	30.5	0.200	"	21.9	10.4	91.5	75-125	2.73	25	

Post Spike (BHG0589-PS1)

Source: 2407250-01

Prepared: 07/22/24 Analyzed: 07/23/24

Arsenic	103		ug/l	100	7.64	95.6	75-125			
Barium	612		"	100	504	108	75-125			
Lead	68.7		"	50.0	23.2	90.8	75-125			

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Wells Ranch BB03 Econode

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 07/25/24 12:10

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 BHG0569 - 3060A Mod

Blank (BHG0569-BLK1)

Prepared & Analyzed: 07/22/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHG0569-BS1)

Prepared & Analyzed: 07/22/24

Chromium, Hexavalent 26.0 0.30 mg/kg wet 25.0 104 80-120

Duplicate (BHG0569-DUP1)

Source: 2407232-01

Prepared & Analyzed: 07/22/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHG0569-MS1)

Source: 2407232-01

Prepared & Analyzed: 07/22/24

Chromium, Hexavalent 28.5 0.30 mg/kg dry 28.3 ND 101 75-125

Matrix Spike Dup (BHG0569-MSD1)

Source: 2407232-01

Prepared & Analyzed: 07/22/24

Chromium, Hexavalent 28.4 0.30 mg/kg dry 28.3 ND 100 75-125 0.398 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Wells Ranch BB03 Econode

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 07/25/24 12:10

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

Summit Scientific

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

Batch BHG0568 - General Preparation

Blank (BHG0568-BLK1)

Prepared & Analyzed: 07/22/24

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

LCS (BHG0568-BS1)

Prepared & Analyzed: 07/22/24

Calcium	5.17	0.0500	mg/L wet	5.00		103	70-130			
Magnesium	5.51	0.0500	"	5.00		110	70-130			
Sodium	5.76	0.0500	"	5.00		115	70-130			

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Wells Ranch BB03 Econode

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 07/25/24 12:10

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

Summit Scientific

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

Batch BHG0563 - General Preparation

Duplicate (BHG0563-DUP1)	Source: 2407238-01		Prepared: 07/22/24 Analyzed: 07/23/24			
% Solids	77.3	%	79.1		2.30	20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Wells Ranch BB03 Econode

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 07/25/24 12:10

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 BHG0571 - General Preparation

Blank (BHG0571-BLK1)

Prepared & Analyzed: 07/22/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHG0571-BS1)

Prepared & Analyzed: 07/22/24

Specific Conductance (EC) 0.156 0.0100 mmhos/cm 0.150 104 95-105

Duplicate (BHG0571-DUP1)

Source: 2407248-01

Prepared & Analyzed: 07/22/24

Specific Conductance (EC) 3.24 0.0100 mmhos/cm 3.30 2.02 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Wells Ranch BB03 Econode

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 07/25/24 12:10

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

Summit Scientific

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

Batch BHG0570 - General Preparation

LCS (BHG0570-BS1)

Prepared & Analyzed: 07/22/24

pH 9.19 pH Units 9.18 100 95-105

Duplicate (BHG0570-DUP1)

Source: 2407248-01

Prepared & Analyzed: 07/22/24

pH 8.09 pH Units 8.04 0.620 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Wells Ranch BB03 Econode

Project Number: [none]
Project Manager: Paul Henchan

Reported:
07/25/24 12:10

Notes and Definitions

- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
- QR-01 Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- PRELM Preliminary result. Revised report to follow.
- E The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference