

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

August 27, 2024

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: PDC - Wells 34F
Work Order #2408217

Enclosed are the results of analyses for samples received by Summit Scientific on 08/20/24 09:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Natalie Tessier For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Wells 34F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/27/24 10:46

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-07-2	2408217-01	Soil	08/19/24 00:00	08/20/24 09:00
SS-06	2408217-02	Soil	08/19/24 00:00	08/20/24 09:00
SS-07	2408217-03	Soil	08/19/24 00:00	08/20/24 09:00
SS-08	2408217-04	Soil	08/19/24 00:00	08/20/24 09:00
SS-09	2408217-05	Soil	08/19/24 00:00	08/20/24 09:00
SS-10	2408217-06	Soil	08/19/24 00:00	08/20/24 09:00
SS-11	2408217-07	Soil	08/19/24 00:00	08/20/24 09:00
SS-12	2408217-08	Soil	08/19/24 00:00	08/20/24 09:00
SS-13	2408217-09	Soil	08/19/24 00:00	08/20/24 09:00

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S₂

2408217

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

Page 1 of 21

Client: Fremont Environmental Inc.

Project Manager: Paul Henehan

Address:

E-Mail: PDC

City/State/Zip:

Phone:

Project Name: WELLS 34F

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	GBTXN+TMBs	DRO,RRO	PAHs	pH, EC, SAR	Boron	915-1 metals	Arsenic	BTEXN + TMBs	TDS, Cl, Su						
1	SS-02-07-2	8/19/24		2			2			2				✓	✓	✓											
2	SS-06			✓										✓	✓	✓											
3	SS-07			✓										✓	✓	✓											
4	SS-08			✓												✓											
5	SS-09			✓												✓											
6	SS-10			✓												✓											
7	SS-11			✓												✓											
8	SS-12			✓												✓											
9	SS-13			✓												✓											
10																											

Relinquished by: <i>MA/KA</i>	Date/Time: 8/20/24	Received by:	Date/Time:	Turn Around Time (Check)	Notes:
				Same Day <input type="checkbox"/>	
				24 hours <input type="checkbox"/>	
Relinquished by: SL	Date/Time: 8/20/24 0900	Received by: <i>DJH</i>	Date/Time: 8/20/24 0900	48 hours <input type="checkbox"/>	72 hours <input type="checkbox"/>
Relinquished by:	Date/Time:	Received by:	Date/Time:	Standard <input checked="" type="checkbox"/>	
				Sample Integrity:	
				Temperature Upon Receipt: 7.2	
				Samples Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

S₂

Sample Receipt Checklist

S2 Work Order# 2408217

Client: Ferromt Client Project ID: Wells 34F

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 type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact? ⁽¹⁾	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0120E
Are samples due within 48 hours present?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out completely? ⁽¹⁾	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input 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 checked="" 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): <p style="text-align: center;">Sample #1 jar was SS-0a</p>				
⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.				

Natalie Tessier
Custodian Printed Name

8/20/24 12:07
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Wells 34F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/27/24 10:46

SS-07-2
2408217-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHH0597	08/21/24	08/22/24	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: **08/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0444	111 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0402	100 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0379	94.6 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHH0600	08/21/24	08/22/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	14.3	115 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project Number: [none]
 Project Manager: Paul Henchan

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SS-07-2
2408217-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0564	08/21/24	08/22/24	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: **08/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0179	53.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0194	58.2 %	40-150		"	"	"	"	

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PO Box 1289
Wellington CO, 80549

Project: PDC - Wells 34F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/27/24 10:46

SS-06
2408217-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHH0597	08/21/24	08/22/24	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: **08/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0437	109 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0405	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0380	95.1 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHH0600	08/21/24	08/22/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	12.8	103 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
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Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 08/27/24 10:46

SS-06
2408217-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Acenaphthene	ND	0.00500	mg/kg	1	BHH0564	08/21/24	08/22/24	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: **08/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 2-Methylnaphthalene-d10	0.0176	52.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0147	44.0 %	40-150		"	"	"	"	

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Project: PDC - Wells 34F

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Reported:
08/27/24 10:46

SS-07
2408217-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHH0597	08/21/24	08/22/24	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: **08/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0421	105 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0388	97.0 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0394	98.5 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHH0600	08/21/24	08/22/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	12.6	101 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
 PO Box 1289
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Project: PDC - Wells 34F

Project Number: [none]
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Reported:
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SS-07
2408217-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0564	08/21/24	08/22/24	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: **08/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0138	41.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0146	43.8 %	40-150		"	"	"	"	

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PO Box 1289
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Project: PDC - Wells 34F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
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SS-08
2408217-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0582	08/21/24	08/23/24	EPA 6020B	

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

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	247	0.0500	mg/L dry	1	BHH0669	08/22/24	08/27/24	EPA 6020B	
Magnesium	58.1	0.0500	"	"	"	"	"	"	
Sodium	7.05	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.105	0.00100	units	1	BHH0817	08/27/24	08/27/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.1		%	1	BHH0612	08/21/24	08/22/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	5.06	0.0100	mmhos/cm	1	BHH0671	08/22/24	08/23/24	EPA 120.1	

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

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Project: PDC - Wells 34F

Project Number: [none]
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Reported:
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SS-08
2408217-04 (Soil)

Summit Scientific

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

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.00			pH Units	1	BHH0670	08/22/24	08/23/24	EPA 9045D	

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Project: PDC - Wells 34F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/27/24 10:46

SS-09
2408217-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0582	08/21/24	08/23/24	EPA 6020B	

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

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	287	0.0500	mg/L dry	1	BHH0669	08/22/24	08/27/24	EPA 6020B	
Magnesium	85.2	0.0500	"	"	"	"	"	"	
Sodium	72.0	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.959	0.00100	units	1	BHH0817	08/27/24	08/27/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.9		%	1	BHH0612	08/21/24	08/22/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	7.01	0.0100	mmhos/cm	1	BHH0671	08/22/24	08/23/24	EPA 120.1	

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

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Wells 34F

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 08/27/24 10:46

SS-09
2408217-05 (Soil)

Summit Scientific

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

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.19			pH Units	1	BHH0670	08/22/24	08/23/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Wells 34F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/27/24 10:46

SS-10
2408217-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0582	08/21/24	08/23/24	EPA 6020B	

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

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	593	0.0500	mg/L dry	1	BHH0669	08/22/24	08/27/24	EPA 6020B	
Magnesium	67.8	0.0500	"	"	"	"	"	"	
Sodium	62.3	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.646	0.00100	units	1	BHH0817	08/27/24	08/27/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.6		%	1	BHH0612	08/21/24	08/22/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	7.86	0.0100	mmhos/cm	1	BHH0671	08/22/24	08/23/24	EPA 120.1	

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

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Wells 34F

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 08/27/24 10:46

SS-10
2408217-06 (Soil)

Summit Scientific

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

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.22			pH Units	1	BHH0670	08/22/24	08/23/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Wells 34F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/27/24 10:46

SS-11
2408217-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0582	08/21/24	08/23/24	EPA 6020B	

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

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	702	0.0500	mg/L dry	1	BHH0669	08/22/24	08/27/24	EPA 6020B	
Magnesium	52.8	0.0500	"	"	"	"	"	"	
Sodium	53.9	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.528	0.00100	units	1	BHH0817	08/27/24	08/27/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.3		%	1	BHH0612	08/21/24	08/22/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.238	0.0100	mmhos/cm	1	BHH0671	08/22/24	08/23/24	EPA 120.1	

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

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Wells 34F

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 08/27/24 10:46

SS-11
2408217-07 (Soil)

Summit Scientific

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

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.25			pH Units	1	BHH0670	08/22/24	08/23/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Wells 34F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/27/24 10:46

SS-12
2408217-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0582	08/21/24	08/23/24	EPA 6020B	

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

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	184	0.0500	mg/L dry	1	BHH0669	08/22/24	08/27/24	EPA 6020B	
Magnesium	32.7	0.0500	"	"	"	"	"	"	
Sodium	2.69	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0480	0.00100	units	1	BHH0817	08/27/24	08/27/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.6		%	1	BHH0612	08/21/24	08/22/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.339	0.0100	mmhos/cm	1	BHH0671	08/22/24	08/23/24	EPA 120.1	

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

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Wells 34F

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 08/27/24 10:46

SS-12
2408217-08 (Soil)

Summit Scientific

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

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.13		pH Units	1	BHH0670	08/22/24	08/23/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Wells 34F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/27/24 10:46

SS-13
2408217-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0582	08/21/24	08/23/24	EPA 6020B	

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

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	60.2	0.0500	mg/L dry	1	BHH0669	08/22/24	08/27/24	EPA 6020B	
Magnesium	9.87	0.0500	"	"	"	"	"	"	
Sodium	6.45	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.203	0.00100	units	1	BHH0817	08/27/24	08/27/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.5		%	1	BHH0612	08/21/24	08/22/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.219	0.0100	mmhos/cm	1	BHH0671	08/22/24	08/23/24	EPA 120.1	

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

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Wells 34F

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 08/27/24 10:46

SS-13
2408217-09 (Soil)

Summit Scientific

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

Date Sampled: **08/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.87			pH Units	1	BHH0670	08/22/24	08/23/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Wells 34F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/27/24 10:46

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 BHH0597 - EPA 5030 Soil MS

Blank (BHH0597-BLK1)

Prepared: 08/21/24 Analyzed: 08/22/24

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>	0.0407		"	0.0400		102	50-150			
<i>Surrogate: Toluene-d8</i>	0.0398		"	0.0400		99.5	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0388		"	0.0400		97.0	50-150			

LCS (BHH0597-BS1)

Prepared: 08/21/24 Analyzed: 08/22/24

Benzene	0.0992	0.0020	mg/kg	0.100		99.2	70-130			
Toluene	0.0996	0.0050	"	0.100		99.6	70-130			
Ethylbenzene	0.102	0.0050	"	0.100		102	70-130			
m,p-Xylene	0.201	0.010	"	0.200		100	70-130			
o-Xylene	0.102	0.0050	"	0.100		102	70-130			
1,2,4-Trimethylbenzene	0.0984	0.0050	"	0.100		98.4	70-130			
1,3,5-Trimethylbenzene	0.0971	0.0050	"	0.100		97.1	70-130			
Naphthalene	0.0957	0.0038	"	0.100		95.7	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0425		"	0.0400		106	50-150			
<i>Surrogate: Toluene-d8</i>	0.0400		"	0.0400		100	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0394		"	0.0400		98.6	50-150			

Matrix Spike (BHH0597-MS1)

Source: 2408217-01

Prepared: 08/21/24 Analyzed: 08/22/24

Benzene	0.0944	0.0020	mg/kg	0.100	ND	94.4	70-130			
Toluene	0.0953	0.0050	"	0.100	ND	95.3	70-130			
Ethylbenzene	0.101	0.0050	"	0.100	ND	101	70-130			
m,p-Xylene	0.194	0.010	"	0.200	ND	96.9	70-130			
o-Xylene	0.0952	0.0050	"	0.100	ND	95.2	70-130			
1,2,4-Trimethylbenzene	0.0919	0.0050	"	0.100	ND	91.9	70-130			
1,3,5-Trimethylbenzene	0.0933	0.0050	"	0.100	ND	93.3	70-130			
Naphthalene	0.0873	0.0038	"	0.100	ND	87.3	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0406		"	0.0400		102	50-150			
<i>Surrogate: Toluene-d8</i>	0.0403		"	0.0400		101	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0385		"	0.0400		96.3	50-150			

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Wells 34F

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 08/27/24 10:46

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 BHH0597 - EPA 5030 Soil MS

Matrix Spike Dup (BHH0597-MSD1)	Source: 2408217-01			Prepared: 08/21/24 Analyzed: 08/22/24						
Benzene	0.105	0.0020	mg/kg	0.100	ND	105	70-130	10.9	30	
Toluene	0.106	0.0050	"	0.100	ND	106	70-130	10.6	30	
Ethylbenzene	0.106	0.0050	"	0.100	ND	106	70-130	4.59	30	
m,p-Xylene	0.207	0.010	"	0.200	ND	103	70-130	6.50	30	
o-Xylene	0.0995	0.0050	"	0.100	ND	99.5	70-130	4.37	30	
1,2,4-Trimethylbenzene	0.0960	0.0050	"	0.100	ND	96.0	70-130	4.31	30	
1,3,5-Trimethylbenzene	0.0976	0.0050	"	0.100	ND	97.6	70-130	4.59	30	
Naphthalene	0.0874	0.0038	"	0.100	ND	87.4	70-130	0.0687	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0478</i>		<i>"</i>	<i>0.0400</i>		<i>119</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0405</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0399</i>		<i>"</i>	<i>0.0400</i>		<i>99.8</i>	<i>50-150</i>			

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Wells 34F

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 08/27/24 10:46

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BHH0600 - EPA 3550A

Blank (BHH0600-BLK1)

Prepared: 08/21/24 Analyzed: 08/22/24

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: <i>o</i> -Terphenyl	17.0		"	12.5		136	30-150			

LCS (BHH0600-BS1)

Prepared: 08/21/24 Analyzed: 08/22/24

C10-C28 (DRO)	467	50	mg/kg	500		93.4	70-130			
Surrogate: <i>o</i> -Terphenyl	17.8		"	12.5		142	30-150			

Matrix Spike (BHH0600-MS1)

Source: 2408217-01

Prepared: 08/21/24 Analyzed: 08/22/24

C10-C28 (DRO)	427	50	mg/kg	500	39.5	77.4	70-130			
Surrogate: <i>o</i> -Terphenyl	13.0		"	12.5		104	30-150			

Matrix Spike Dup (BHH0600-MSD1)

Source: 2408217-01

Prepared: 08/21/24 Analyzed: 08/22/24

C10-C28 (DRO)	414	50	mg/kg	500	39.5	74.8	70-130	3.07	20	
Surrogate: <i>o</i> -Terphenyl	14.6		"	12.5		117	30-150			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Wells 34F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/27/24 10:46

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHH0564 - EPA 5030 Soil MS

Blank (BHH0564-BLK1)

Prepared: 08/21/24 Analyzed: 08/22/24

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	0.0226		"	0.0333	67.7	40-150					
Surrogate: Fluoranthene-d10	0.0222		"	0.0333	66.5	40-150					

LCS (BHH0564-BS1)

Prepared: 08/21/24 Analyzed: 08/22/24

Acenaphthene	0.0187	0.00500	mg/kg	0.0333	56.1	31-137					
Anthracene	0.0186	0.00500	"	0.0333	55.9	30-120					
Benzo (a) anthracene	0.0197	0.00500	"	0.0333	59.2	30-120					
Benzo (a) pyrene	0.0170	0.00500	"	0.0333	50.9	30-120					
Benzo (b) fluoranthene	0.0182	0.00500	"	0.0333	54.6	30-120					
Benzo (k) fluoranthene	0.0188	0.00500	"	0.0333	56.3	30-120					
Chrysene	0.0194	0.00500	"	0.0333	58.1	30-120					
Dibenz (a,h) anthracene	0.0122	0.00500	"	0.0333	36.7	30-120					
Fluoranthene	0.0189	0.00500	"	0.0333	56.6	30-120					
Fluorene	0.0207	0.00500	"	0.0333	62.1	30-120					
Indeno (1,2,3-cd) pyrene	0.0141	0.00500	"	0.0333	42.4	30-120					
Pyrene	0.0206	0.00500	"	0.0333	61.9	35-142					
1-Methylnaphthalene	0.0213	0.00500	"	0.0333	63.8	35-142					
2-Methylnaphthalene	0.0171	0.00500	"	0.0333	51.3	35-142					
Surrogate: 2-Methylnaphthalene-d10	0.0221		"	0.0333	66.4	40-150					
Surrogate: Fluoranthene-d10	0.0192		"	0.0333	57.7	40-150					

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Wells 34F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/27/24 10:46

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 BHH0564 - EPA 5030 Soil MS

Matrix Spike (BHH0564-MS1)	Source: 2408216-01			Prepared: 08/21/24 Analyzed: 08/22/24							
Acenaphthene	0.0181	0.00500	mg/kg	0.0333	ND	54.2	31-137				
Anthracene	0.0199	0.00500	"	0.0333	ND	59.6	30-120				
Benzo (a) anthracene	0.0205	0.00500	"	0.0333	ND	61.4	30-120				
Benzo (a) pyrene	0.0176	0.00500	"	0.0333	ND	52.7	30-120				
Benzo (b) fluoranthene	0.0189	0.00500	"	0.0333	ND	56.8	30-120				
Benzo (k) fluoranthene	0.0193	0.00500	"	0.0333	ND	57.8	30-120				
Chrysene	0.0198	0.00500	"	0.0333	ND	59.4	30-120				
Dibenz (a,h) anthracene	0.0125	0.00500	"	0.0333	ND	37.6	30-120				
Fluoranthene	0.0198	0.00500	"	0.0333	ND	59.5	30-120				
Fluorene	0.0208	0.00500	"	0.0333	ND	62.4	30-120				
Indeno (1,2,3-cd) pyrene	0.0142	0.00500	"	0.0333	ND	42.7	30-120				
Pyrene	0.0211	0.00500	"	0.0333	ND	63.4	35-142				
1-Methylnaphthalene	0.0158	0.00500	"	0.0333	ND	47.4	15-130				
2-Methylnaphthalene	0.0154	0.00500	"	0.0333	ND	46.2	15-130				
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0160</i>		<i>"</i>	<i>0.0333</i>		<i>48.1</i>	<i>40-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0201</i>		<i>"</i>	<i>0.0333</i>		<i>60.4</i>	<i>40-150</i>				

Matrix Spike Dup (BHH0564-MSD1)	Source: 2408216-01			Prepared: 08/21/24 Analyzed: 08/22/24							
Acenaphthene	0.0170	0.00500	mg/kg	0.0333	ND	51.1	31-137	5.96	30		
Anthracene	0.0183	0.00500	"	0.0333	ND	55.0	30-120	8.01	30		
Benzo (a) anthracene	0.0193	0.00500	"	0.0333	ND	57.8	30-120	5.95	30		
Benzo (a) pyrene	0.0164	0.00500	"	0.0333	ND	49.3	30-120	6.64	30		
Benzo (b) fluoranthene	0.0181	0.00500	"	0.0333	ND	54.3	30-120	4.52	30		
Benzo (k) fluoranthene	0.0184	0.00500	"	0.0333	ND	55.3	30-120	4.56	30		
Chrysene	0.0186	0.00500	"	0.0333	ND	55.8	30-120	6.33	30		
Dibenz (a,h) anthracene	0.0108	0.00500	"	0.0333	ND	32.3	30-120	15.2	30		
Fluoranthene	0.0192	0.00500	"	0.0333	ND	57.6	30-120	3.22	30		
Fluorene	0.0155	0.00500	"	0.0333	ND	46.6	30-120	28.9	30		
Indeno (1,2,3-cd) pyrene	0.0165	0.00500	"	0.0333	ND	49.5	30-120	14.8	30		
Pyrene	0.0196	0.00500	"	0.0333	ND	58.7	35-142	7.56	30		
1-Methylnaphthalene	0.0158	0.00500	"	0.0333	ND	47.4	15-130	0.0696	50		
2-Methylnaphthalene	0.0138	0.00500	"	0.0333	ND	41.3	15-130	11.2	50		
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0158</i>		<i>"</i>	<i>0.0333</i>		<i>47.3</i>	<i>40-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0192</i>		<i>"</i>	<i>0.0333</i>		<i>57.7</i>	<i>40-150</i>				

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Wells 34F

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 08/27/24 10:46

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 BHH0582 - EPA 3050B

Blank (BHH0582-BLK1)		Prepared: 08/21/24 Analyzed: 08/23/24								
Boron	ND	2.00	mg/L							
LCS (BHH0582-BS1)		Prepared: 08/21/24 Analyzed: 08/23/24								
Boron	5.51	2.00	mg/L	5.00		110	80-120			
Duplicate (BHH0582-DUP1)		Source: 2408203-01		Prepared: 08/21/24 Analyzed: 08/23/24						
Boron	0.271	2.00	mg/L		0.282			4.00	20	
Matrix Spike (BHH0582-MS1)		Source: 2408203-01		Prepared: 08/21/24 Analyzed: 08/23/24						
Boron	5.21	2.00	mg/L	4.98	0.282	99.0	75-125			
Matrix Spike Dup (BHH0582-MSD1)		Source: 2408203-01		Prepared: 08/21/24 Analyzed: 08/23/24						
Boron	4.75	2.00	mg/L	4.98	0.282	89.6	75-125	9.41	25	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Wells 34F

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 08/27/24 10:46

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 BHH0669 - General Preparation

Blank (BHH0669-BLK1)

Prepared: 08/22/24 Analyzed: 08/27/24

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

LCS (BHH0669-BS1)

Prepared: 08/22/24 Analyzed: 08/27/24

Calcium	5.16	0.0500	mg/L wet	5.00		103	70-130			
Magnesium	4.99	0.0500	"	5.00		99.7	70-130			
Sodium	5.16	0.0500	"	5.00		103	70-130			

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Wells 34F

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 08/27/24 10:46

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 BHH0612 - General Preparation

Duplicate (BHH0612-DUP1)

Source: 2408211-01

Prepared: 08/21/24 Analyzed: 08/22/24

% Solids	86.8		%		87.4			0.740		20	
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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Wells 34F

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 08/27/24 10:46

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

Summit Scientific

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

Batch BHH0671 - General Preparation

Blank (BHH0671-BLK1)

Prepared: 08/22/24 Analyzed: 08/23/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHH0671-BS1)

Prepared: 08/22/24 Analyzed: 08/23/24

Specific Conductance (EC) 0.155 0.0100 mmhos/cm 0.150 103 95-105

Duplicate (BHH0671-DUP1)

Source: 2408217-04

Prepared: 08/22/24 Analyzed: 08/23/24

Specific Conductance (EC) 4.54 0.0100 mmhos/cm 5.06 10.8 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: PDC - Wells 34F

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 08/27/24 10:46

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 BHH0670 - General Preparation

LCS (BHH0670-BS1)

Prepared: 08/22/24 Analyzed: 08/23/24

pH	9.07		pH Units	9.18		98.8	95-105			
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Duplicate (BHH0670-DUP1)

Source: 2408217-04

Prepared: 08/22/24 Analyzed: 08/23/24

pH	8.01		pH Units	8.00		0.125	20			
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: PDC - Wells 34F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/27/24 10:46

Notes and Definitions

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