

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: Chevron - Wells BB03
Work Order #2408218

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: Chevron - Wells BB03

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/27/24 10:49

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FS-05 6FT	2408218-01	Soil	08/19/24 00:00	08/20/24 09:00
FS-06 6FT	2408218-02	Soil	08/19/24 00:00	08/20/24 09:00
SS-07 5FT	2408218-03	Soil	08/19/24 00:00	08/20/24 09:00
SS-08 5FT	2408218-04	Soil	08/19/24 00:00	08/20/24 09:00

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S₂

2408218

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

Page 1 of 1

Client: Fremont Environmental Inc.

Project Manager: Paul Henehan

Address:

E-Mail: CHEVRON

City/State/Zip:

Phone:

Project Name: WELLS BBO3

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	9/5-1 metals	Arsenic	BTEXN + TMBs		TDS, Cl, Su	
1	FS-05 6 FT	8/19/24		2			✓			✓													Full 915-1
2	FS-06 6 FT																						✓
3	SS-07 5 FT																						✓
4	SS-08 5 FT																						✓
5																							
6																							
7																							
8																							
9																							
10																							

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

S₂

Sample Receipt Checklist

S2 Work Order# 2408218

Client: Fremont

Client Project ID: Wells BB03

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

Airbill #: _____

<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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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"/>	OK
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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input type="checkbox"/>	<input checked="" 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.				

Natalie Tessier
Custodian Printed Name

8/20/24 11:37
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Wells BB03

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/27/24 10:49

FS-05 6FT
2408218-01 (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	0.0443	111 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0384	95.9 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0406	101 %		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	14.0	112 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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2408218-01 (Soil)

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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	BHH0562	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	41.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0165	49.4 %	40-150		"	"	"	"	

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	BHH0584	08/21/24	08/23/24	EPA 6020B	

Total Metals by EPA 6020B

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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FS-05 6FT
2408218-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.15	0.200	mg/kg dry	1	BHH0587	08/21/24	08/22/24	EPA 6020B	
Barium	35.5	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.54	0.400	"	"	"	"	"	"	
Lead	2.45	0.200	"	"	"	"	"	"	
Nickel	1.78	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	7.43	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0574	08/21/24	08/21/24	EPA 7196A	

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	127	0.0500	mg/L dry	1	BHH0669	08/22/24	08/27/24	EPA 6020B	
Magnesium	26.1	0.0500	"	"	"	"	"	"	
Sodium	71.0	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	1.50	0.00100	units	1	BHH0817	08/27/24	08/27/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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2408218-01 (Soil)

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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	91.4		%	1	BHH0610	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)	0.184	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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.91		pH Units	1	BHH0670	08/22/24	08/23/24	EPA 9045D	

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Fremont Environmental
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Reported:
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FS-06 6FT
2408218-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

O-02

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	0.029	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	4.0	0.50	"	100	"	"	"	"	E, J-02
1,3,5-Trimethylbenzene	3.2	0.50	"	"	"	"	"	"	E, J-02
Naphthalene	0.22	0.0038	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	2300	50	"	100	"	"	"	"	E, J-02

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.453	1130 %	50-150		"	"	"	"	S-02
Surrogate: Toluene-d8	2.00	5010 %	50-150		"	"	"	"	S-02
Surrogate: 4-Bromofluorobenzene	1.54	3850 %	50-150		"	"	"	"	S-02

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)	4200	50	mg/kg	1	BHH0600	08/21/24	08/22/24	EPA 8015M	
C28-C36 (ORO)	630	50	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	16.0	128 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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FS-06 6FT
2408218-02 (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	0.258	0.0500	mg/kg	10	BHH0562	08/21/24	08/22/24	EPA 8270D SIM	
Anthracene	ND	0.0500	"	"	"	"	"	"	R-05
Benzo (a) anthracene	ND	0.0500	"	"	"	"	"	"	R-05
Benzo (a) pyrene	ND	0.0500	"	"	"	"	"	"	R-05
Benzo (b) fluoranthene	ND	0.0500	"	"	"	"	"	"	R-05
Benzo (k) fluoranthene	ND	0.0500	"	"	"	"	"	"	R-05
Chrysene	0.0797	0.0500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.0500	"	"	"	"	"	"	R-05
Fluoranthene	ND	0.0500	"	"	"	"	"	"	R-05
Fluorene	0.786	0.0500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.0500	"	"	"	"	"	"	R-05
Pyrene	0.0610	0.0500	"	"	"	"	"	"	
1-Methylnaphthalene	7.00	0.0500	"	"	"	"	"	"	E
2-Methylnaphthalene	8.47	0.0500	"	"	"	"	"	"	E

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0204	61.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0406	122 %	40-150		"	"	"	"	

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	BHH0584	08/21/24	08/23/24	EPA 6020B	

Total Metals by EPA 6020B

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Chevron - Wells BB03

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FS-06 6FT
2408218-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.95	0.180	mg/kg dry	1	BHH0587	08/21/24	08/22/24	EPA 6020B	
Barium	33.1	0.360	"	"	"	"	"	"	
Cadmium	ND	0.180	"	"	"	"	"	"	
Copper	1.52	0.360	"	"	"	"	"	"	
Lead	2.75	0.180	"	"	"	"	"	"	
Nickel	1.92	0.360	"	"	"	"	"	"	
Silver	ND	0.0180	"	"	"	"	"	"	
Zinc	7.59	0.360	"	"	"	"	"	"	
Selenium	ND	0.234	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0574	08/21/24	08/21/24	EPA 7196A	

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	67.2	0.0500	mg/L dry	1	BHH0669	08/22/24	08/27/24	EPA 6020B	
Magnesium	13.8	0.0500	"	"	"	"	"	"	
Sodium	54.7	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	1.59	0.00100	units	1	BHH0817	08/27/24	08/27/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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 PO Box 1289
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Project Number: [none]
 Project Manager: Paul Henchan

Reported:
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FS-06 6FT
2408218-02 (Soil)

Summit Scientific

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	92.0		%	1	BHH0610	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)	0.202	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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.04		pH Units	1	BHH0670	08/22/24	08/23/24	EPA 9045D	

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Project: Chevron - Wells BB03

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/27/24 10:49

SS-07 5FT
2408218-03 (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	30	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	0.0420	105 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0392	97.9 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0446	111 %	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	16.1	129 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Wells BB03

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/27/24 10:49

SS-07 5FT
2408218-03 (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	BHH0562	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	0.0150	45.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0161	48.3 %	40-150		"	"	"	"	

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	BHH0584	08/21/24	08/23/24	EPA 6020B	

Total Metals by EPA 6020B

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

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

Project: Chevron - Wells BB03

Project Number: [none]
Project Manager: Paul Henchan

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08/27/24 10:49

SS-07 5FT
2408218-03 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.16	0.200	mg/kg dry	1	BHH0587	08/21/24	08/22/24	EPA 6020B	
Barium	26.8	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.48	0.400	"	"	"	"	"	"	
Lead	2.54	0.200	"	"	"	"	"	"	
Nickel	1.82	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	7.50	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0574	08/21/24	08/21/24	EPA 7196A	

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	118	0.0500	mg/L dry	1	BHH0669	08/22/24	08/27/24	EPA 6020B	
Magnesium	23.1	0.0500	"	"	"	"	"	"	
Sodium	11.4	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	0.251	0.00100	units	1	BHH0817	08/27/24	08/27/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
 PO Box 1289
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Project: Chevron - Wells BB03

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 08/27/24 10:49

SS-07 5FT
2408218-03 (Soil)

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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	95.7		%	1	BHH0610	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)	0.312	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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.88		pH Units	1	BHH0670	08/22/24	08/23/24	EPA 9045D	

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Project: Chevron - Wells BB03

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/27/24 10:49

SS-08 5FT
2408218-04 (Soil)

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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	0.0419	105 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0394	98.5 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0390	97.5 %	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	18.8	150 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Wells BB03

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/27/24 10:49

SS-08 5FT
2408218-04 (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	BHH0562	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	0.0142	42.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0156	46.9 %	40-150		"	"	"	"	

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	BHH0584	08/21/24	08/23/24	EPA 6020B	

Total Metals by EPA 6020B

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

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

Project: Chevron - Wells BB03

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/27/24 10:49

SS-08 5FT
2408218-04 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.70	0.200	mg/kg dry	1	BHH0587	08/21/24	08/22/24	EPA 6020B	
Barium	40.3	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.50	0.400	"	"	"	"	"	"	
Lead	2.43	0.200	"	"	"	"	"	"	
Nickel	1.81	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	6.99	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0574	08/21/24	08/21/24	EPA 7196A	

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	69.7	0.0500	mg/L dry	1	BHH0669	08/22/24	08/27/24	EPA 6020B	
Magnesium	12.6	0.0500	"	"	"	"	"	"	
Sodium	11.8	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	0.342	0.00100	units	1	BHH0817	08/27/24	08/27/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Chevron - Wells BB03

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 08/27/24 10:49

SS-08 5FT
2408218-04 (Soil)

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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	95.2		%	1	BHH0610	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)	0.579	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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.61		pH Units	1	BHH0670	08/22/24	08/23/24	EPA 9045D	

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PO Box 1289
Wellington CO, 80549

Project: Chevron - Wells BB03

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/27/24 10:49

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 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				

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Fremont Environmental
 PO Box 1289
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Project: Chevron - Wells BB03

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 08/27/24 10:49

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: Chevron - Wells BB03

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 08/27/24 10:49

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: o-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: o-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: o-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: o-Terphenyl	14.6		"	12.5		117	30-150			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Wells BB03

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/27/24 10:49

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 BHH0562 - EPA 5030 Soil MS

Blank (BHH0562-BLK1)

Prepared & Analyzed: 08/21/24

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	0.0200		"	0.0333	60.0	40-150				
Surrogate: Fluoranthene-d10	0.0216		"	0.0333	64.8	40-150				

LCS (BHH0562-BS1)

Prepared & Analyzed: 08/21/24

Acenaphthene	0.0219	0.00500	mg/kg	0.0333	65.7	31-137				
Anthracene	0.0209	0.00500	"	0.0333	62.7	30-120				
Benzo (a) anthracene	0.0228	0.00500	"	0.0333	68.4	30-120				
Benzo (a) pyrene	0.0193	0.00500	"	0.0333	57.8	30-120				
Benzo (b) fluoranthene	0.0205	0.00500	"	0.0333	61.5	30-120				
Benzo (k) fluoranthene	0.0201	0.00500	"	0.0333	60.2	30-120				
Chrysene	0.0216	0.00500	"	0.0333	64.7	30-120				
Dibenz (a,h) anthracene	0.0179	0.00500	"	0.0333	53.8	30-120				
Fluoranthene	0.0220	0.00500	"	0.0333	66.1	30-120				
Fluorene	0.0215	0.00500	"	0.0333	64.6	30-120				
Indeno (1,2,3-cd) pyrene	0.0139	0.00500	"	0.0333	41.7	30-120				
Pyrene	0.0243	0.00500	"	0.0333	72.8	35-142				
1-Methylnaphthalene	0.0199	0.00500	"	0.0333	59.8	35-142				
2-Methylnaphthalene	0.0198	0.00500	"	0.0333	59.5	35-142				
Surrogate: 2-Methylnaphthalene-d10	0.0203		"	0.0333	61.0	40-150				
Surrogate: Fluoranthene-d10	0.0227		"	0.0333	68.1	40-150				

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Wells BB03

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/27/24 10:49

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 BHH0562 - EPA 5030 Soil MS

Matrix Spike (BHH0562-MS1)	Source: 2408123-08			Prepared & Analyzed: 08/21/24							
Acenaphthene	0.0239	0.00500	mg/kg	0.0333	ND	71.7	31-137				
Anthracene	0.0245	0.00500	"	0.0333	ND	73.4	30-120				
Benzo (a) anthracene	0.0270	0.00500	"	0.0333	ND	81.0	30-120				
Benzo (a) pyrene	0.0241	0.00500	"	0.0333	ND	72.3	30-120				
Benzo (b) fluoranthene	0.0250	0.00500	"	0.0333	ND	74.9	30-120				
Benzo (k) fluoranthene	0.0234	0.00500	"	0.0333	ND	70.2	30-120				
Chrysene	0.0254	0.00500	"	0.0333	ND	76.2	30-120				
Dibenz (a,h) anthracene	0.0206	0.00500	"	0.0333	ND	61.7	30-120				
Fluoranthene	0.0257	0.00500	"	0.0333	ND	77.0	30-120				
Fluorene	0.0264	0.00500	"	0.0333	ND	79.1	30-120				
Indeno (1,2,3-cd) pyrene	0.0172	0.00500	"	0.0333	ND	51.6	30-120				
Pyrene	0.0278	0.00500	"	0.0333	ND	83.4	35-142				
1-Methylnaphthalene	0.0225	0.00500	"	0.0333	ND	67.6	15-130				
2-Methylnaphthalene	0.0229	0.00500	"	0.0333	ND	68.6	15-130				
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0235</i>		<i>"</i>	<i>0.0333</i>		<i>70.6</i>	<i>40-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0256</i>		<i>"</i>	<i>0.0333</i>		<i>76.7</i>	<i>40-150</i>				

Matrix Spike Dup (BHH0562-MSD1)	Source: 2408123-08			Prepared & Analyzed: 08/21/24							
Acenaphthene	0.0205	0.00500	mg/kg	0.0333	ND	61.4	31-137	15.5	30		
Anthracene	0.0216	0.00500	"	0.0333	ND	64.9	30-120	12.3	30		
Benzo (a) anthracene	0.0243	0.00500	"	0.0333	ND	73.0	30-120	10.4	30		
Benzo (a) pyrene	0.0218	0.00500	"	0.0333	ND	65.4	30-120	9.94	30		
Benzo (b) fluoranthene	0.0228	0.00500	"	0.0333	ND	68.5	30-120	8.92	30		
Benzo (k) fluoranthene	0.0207	0.00500	"	0.0333	ND	62.1	30-120	12.2	30		
Chrysene	0.0230	0.00500	"	0.0333	ND	69.1	30-120	9.88	30		
Dibenz (a,h) anthracene	0.0184	0.00500	"	0.0333	ND	55.3	30-120	11.1	30		
Fluoranthene	0.0237	0.00500	"	0.0333	ND	71.0	30-120	8.06	30		
Fluorene	0.0208	0.00500	"	0.0333	ND	62.4	30-120	23.6	30		
Indeno (1,2,3-cd) pyrene	0.0155	0.00500	"	0.0333	ND	46.5	30-120	10.3	30		
Pyrene	0.0257	0.00500	"	0.0333	ND	77.0	35-142	8.05	30		
1-Methylnaphthalene	0.0209	0.00500	"	0.0333	ND	62.7	15-130	7.51	50		
2-Methylnaphthalene	0.0206	0.00500	"	0.0333	ND	61.7	15-130	10.5	50		
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0215</i>		<i>"</i>	<i>0.0333</i>		<i>64.4</i>	<i>40-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0234</i>		<i>"</i>	<i>0.0333</i>		<i>70.3</i>	<i>40-150</i>				

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Chevron - Wells BB03

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 08/27/24 10:49

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 BHH0584 - EPA 3050B

Blank (BHH0584-BLK1)

Prepared: 08/21/24 Analyzed: 08/23/24

Boron ND 2.00 mg/L

LCS (BHH0584-BS1)

Prepared: 08/21/24 Analyzed: 08/23/24

Boron 5.17 2.00 mg/L 5.00 103 80-120

Duplicate (BHH0584-DUP1)

Source: 2408218-01

Prepared: 08/21/24 Analyzed: 08/23/24

Boron 0.138 2.00 mg/L 0.143 3.21 20

Matrix Spike (BHH0584-MS1)

Source: 2408218-01

Prepared: 08/21/24 Analyzed: 08/23/24

Boron 4.99 2.00 mg/L 4.96 0.143 97.7 75-125

Matrix Spike Dup (BHH0584-MSD1)

Source: 2408218-01

Prepared: 08/21/24 Analyzed: 08/23/24

Boron 4.98 2.00 mg/L 4.96 0.143 97.5 75-125 0.161 25

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Wells BB03

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/27/24 10:49

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 BHH0587 - EPA 3050B

Blank (BHH0587-BLK1)

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

Arsenic	ND	0.181	mg/kg wet							
Barium	ND	0.362	"							
Cadmium	ND	0.181	"							
Copper	ND	0.362	"							
Lead	ND	0.181	"							
Nickel	ND	0.362	"							
Silver	ND	0.0181	"							
Zinc	ND	0.362	"							
Selenium	ND	0.236	"							

LCS (BHH0587-BS1)

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

Arsenic	33.4	0.181	mg/kg wet	36.2	92.3	80-120
Barium	34.8	0.362	"	36.2	96.1	80-120
Cadmium	1.71	0.181	"	1.81	94.6	80-120
Copper	38.6	0.362	"	36.2	107	80-120
Lead	17.7	0.181	"	18.1	98.0	80-120
Nickel	36.6	0.362	"	36.2	101	80-120
Silver	1.73	0.0181	"	1.81	95.4	80-120
Zinc	35.6	0.362	"	36.2	98.2	80-120
Selenium	4.01	0.236	"	3.62	111	80-120

Duplicate (BHH0587-DUP1)

Source: 2408203-01

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

Arsenic	3.18	0.200	mg/kg dry	3.21	0.949	20
Barium	105	0.400	"	108	2.22	20
Cadmium	0.250	0.200	"	0.261	4.25	20
Copper	5.58	0.400	"	5.55	0.489	20
Lead	8.32	0.200	"	8.12	2.39	20
Nickel	5.43	0.400	"	5.55	2.16	20
Silver	0.0420	0.0200	"	0.0440	4.62	20
Zinc	20.9	0.400	"	23.1	9.97	20
Selenium	0.184	0.260	"	0.190	3.63	20

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Chevron - Wells BB03

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 08/27/24 10:49

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 BHH0587 - EPA 3050B

Matrix Spike (BHH0587-MS1)	Source: 2408203-01			Prepared: 08/21/24 Analyzed: 08/22/24								
Arsenic	45.6	0.200	mg/kg dry	46.5	3.21	91.2	75-125					
Barium	144	0.400	"	46.5	108	77.4	75-125					
Cadmium	2.51	0.200	"	2.33	0.261	96.8	75-125					
Copper	29.8	0.400	"	46.5	5.55	52.1	75-125					QM-05
Lead	30.7	0.200	"	23.3	8.12	97.1	75-125					
Nickel	28.5	0.400	"	46.5	5.55	49.3	75-125					QM-05
Silver	2.24	0.0200	"	2.33	0.0440	94.4	75-125					
Zinc	43.5	0.400	"	46.5	23.1	43.9	75-125					QM-05
Selenium	4.97	0.260	"	4.65	0.190	103	75-125					

Matrix Spike Dup (BHH0587-MSD1)	Source: 2408203-01			Prepared: 08/21/24 Analyzed: 08/22/24								
Arsenic	44.5	0.200	mg/kg dry	45.5	3.21	90.8	75-125	2.55	25			
Barium	139	0.400	"	45.5	108	68.6	75-125	3.42	25			QM-07
Cadmium	2.42	0.200	"	2.27	0.261	94.7	75-125	3.94	25			
Copper	29.6	0.400	"	45.5	5.55	52.9	75-125	0.605	25			QM-05
Lead	29.7	0.200	"	22.7	8.12	94.9	75-125	3.37	25			
Nickel	28.2	0.400	"	45.5	5.55	49.8	75-125	1.11	25			QM-05
Silver	2.16	0.0200	"	2.27	0.0440	93.1	75-125	3.64	25			
Zinc	43.2	0.400	"	45.5	23.1	44.2	75-125	0.743	25			QM-05
Selenium	4.76	0.260	"	4.55	0.190	101	75-125	4.32	25			

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Chevron - Wells BB03

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 08/27/24 10:49

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BHH0574 - 3060A Mod

Blank (BHH0574-BLK1)

Prepared & Analyzed: 08/21/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHH0574-BS1)

Prepared & Analyzed: 08/21/24

Chromium, Hexavalent 25.2 0.30 mg/kg wet 25.0 101 80-120

Duplicate (BHH0574-DUP1)

Source: 2408211-01

Prepared & Analyzed: 08/21/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHH0574-MS1)

Source: 2408211-01

Prepared & Analyzed: 08/21/24

Chromium, Hexavalent 25.6 0.30 mg/kg dry 28.6 ND 89.4 75-125

Matrix Spike Dup (BHH0574-MSD1)

Source: 2408211-01

Prepared & Analyzed: 08/21/24

Chromium, Hexavalent 25.3 0.30 mg/kg dry 28.6 ND 88.6 75-125 0.899 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Chevron - Wells BB03

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 08/27/24 10:49

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

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: Chevron - Wells BB03

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 08/27/24 10:49

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

Summit Scientific

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

Batch BHH0610 - General Preparation

Duplicate (BHH0610-DUP2)

Source: 2408218-01

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

% Solids	91.8		%		91.4			0.355	20	
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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: Chevron - Wells BB03

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 08/27/24 10:49

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 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

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: Chevron - Wells BB03

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 08/27/24 10:49

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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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Chevron - Wells BB03

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/27/24 10:49

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.
- R-05 The reporting limit for this sample has been raised due to the presence of high levels of non-target analytes.
- 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.
- O-02 Due to matrix interference, the sample cannot be accurately quantitated. The reported result is qualitative.
- J-02 Sample dilution results are outside calibration range. Dilution factor and final results have been manually corrected.
- 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