

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

July 16, 2024

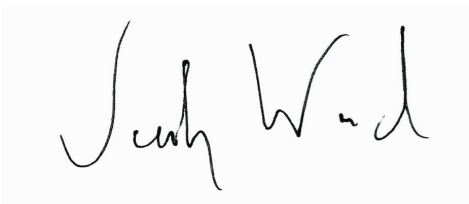
Paul Henchan  
Fremont Environmental  
PO Box 1289  
Wellington, CO 80549

RE: Chevron - Grigsby AC19-62HN

Work Order #2404075

Enclosed are the results of analyses for samples received by Summit Scientific on 04/04/24 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Jacob Wood". The signature is written in a cursive style with a small flourish at the end of the word "Wood".

Jacob Wood For Paul Shrewsbury  
President



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
Project Manager: Paul Henchan

**Reported:**  
07/16/24 09:53

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-23 6FT	2404075-01	Soil	04/04/24 12:10	04/04/24 16:30
SS-24 6FT	2404075-02	Soil	04/04/24 12:15	04/04/24 16:30
SS-25 6FT	2404075-03	Soil	04/04/24 12:20	04/04/24 16:30
SS-26 6FT	2404075-04	Soil	04/04/24 12:25	04/04/24 16:30
SS-27 6FT	2404075-05	Soil	04/04/24 12:30	04/04/24 16:30
SS-28 6FT	2404075-06	Soil	04/04/24 12:35	04/04/24 16:30
SS-29 10FT	2404075-07	Soil	04/04/24 12:40	04/04/24 16:30
SS-30 6FT	2404075-08	Soil	04/04/24 12:45	04/04/24 16:30
SS-32 10FT	2404075-09	Soil	04/04/24 12:50	04/04/24 16:30
SS-33 6FT	2404075-10	Soil	04/04/24 12:55	04/04/24 16:30
SS-34 6FT	2404075-11	Soil	04/04/24 13:00	04/04/24 16:30
SS-35 10FT	2404075-12	Soil	04/04/24 13:05	04/04/24 16:30
SS-36 6FT	2404075-13	Soil	04/04/24 13:10	04/04/24 16:30
SS-37 6FT	2404075-14	Soil	04/04/24 13:15	04/04/24 16:30
SS-38 6FT	2404075-15	Soil	04/04/24 13:20	04/04/24 16:30

### Case Narrative

Rerun analyses were performed by client request on 6/27/2024.  
The rerun results included in this report are denoted with "RE#."

This is a revision of the report originally sent on 5/22/2024 at 11:36 AM MT.

Summit Scientific

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# SUMMIT SCIENTIFIC

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

Lab ID	Page 1 of 1
2404075	

Send Data To:		Send Invoice To:	
Client: Fremont Environmental	Project Manager: Paul Henehan	Company: <u>Chewan</u>	
Address: 8305 6th Street	E-Mail: Fremont Distribution List	Project Name/Location:	
City/State/Zip: Wellington, CO, 80549		AFE#:	
Phone: 603-477-6907	Project Name: <u>Crigsby AC 19-62HN</u>	PO/Billing Codes:	
Sampler Name: Aaron Otilar	Project Number: <u>2024-022</u>	Contact: <u>Don Peterson</u>	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Air-Canister #	Other	Analysis Requested							Special Instructions
					HCl	HNO3	None	Other	Water	Soil			BTEXN - 915	TPH (C6-C36)	PAH	TMB's - 915	Metals (915-1)	SAR, EC, pH, Boron	TDS, Cl, SO4	
1	SS-23 6FT	4/4/24	1210	2			X			X			X	X	X	X	X	X		
2	SS-24 6FT		1215																	
3	SS-25 6FT		1220																	
4	SS-26 6FT		1225																	
5	SS-27 6FT		1230																	
6	SS-28 6FT		1235																	
7	SS-29 10FT		1240																	
8	SS-30 6FT		1245																	
9	SS-32 10FT		1250																	
10	SS-33 6FT		1255																	
11	SS-34 6FT		1300																	
12	SS-35 10FT		1305																	
13	SS-36 6FT		1310																	
14	SS-37 6FT		1315																	
15	SS-38 6FT		1320																	

Relinquished by: <u>Aaron Otilar</u>	Date/Time: <u>4/4/24 1527</u>	Received by: <u>Summit North Office</u>	Date/Time: <u>4/4/24 1527</u>	TAT Business Days	Field DO	Notes:
				Same Day <input checked="" type="checkbox"/>	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: <u>12.9</u>	Corrected Temperature <u>8</u>	IR gun #:	HNO3 lot #:			

S<sub>2</sub>

Sample Receipt Checklist

S2 Work Order# 2404075

Client: Fremont Client Project ID: Grigsby Ac 19-02HN

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

-

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

Temp (°C) 12.9 Thermometer # 1

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

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

AS  
Custodian Printed Name

4/4/24  
Date/Time



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
Project Manager: Paul Henchan

**Reported:**  
07/16/24 09:53

**SS-23 6FT**  
**2404075-01 (Soil)**

Summit Scientific

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

Date Sampled: **04/04/24 12:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHD0154	04/04/24	04/04/24	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: **04/04/24 12:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0372	92.9 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0419	105 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0421	105 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/04/24 12:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHD0157	04/04/24	04/04/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **04/04/24 12:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	3.74	29.9 %		30-150		"	"	"	"	S-04

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Wellington CO, 80549

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
Project Manager: Paul Henchan

**Reported:**  
07/16/24 09:53

**SS-23 6FT**  
**2404075-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/04/24 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHD0160	04/05/24	04/05/24	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: **04/04/24 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0191	57.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0215	64.4 %	40-150		"	"	"	"	

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

Date Sampled: **04/04/24 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0364	04/11/24	04/25/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **04/04/24 12:10**

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

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
Project Manager: Paul Henchan

**Reported:**  
07/16/24 09:53

**SS-23 6FT**  
**2404075-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	5.62	0.200	mg/kg dry	1	BHD0603	04/18/24	04/25/24	EPA 6020B	
Barium	94.8	0.400	"	"	"	"	"	"	
Cadmium	0.337	0.200	"	"	"	"	"	"	
Copper	20.3	0.400	"	"	"	"	"	"	
Nickel	5.84	0.400	"	"	"	"	"	"	
Silver	0.0889	0.0200	"	"	"	"	"	"	
Zinc	32.2	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/04/24 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0345	04/11/24	04/12/24	EPA 7196A	

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

Date Sampled: **04/04/24 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.9		%	1	BHD0212	04/08/24	04/08/24	Calculation	

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

Date Sampled: **04/04/24 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.05	0.0100	mmhos/cm	1	BHD0416	04/12/24	04/16/24	EPA 120.1	

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Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
Project Manager: Paul Henchan

**Reported:**  
07/16/24 09:53

**SS-23 6FT**  
**2404075-01RE1 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **04/04/24 12:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Lead</b>	<b>12.5</b>	0.200	mg/kg dry	1	BHG0027	07/01/24	07/02/24	EPA 6020B	

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

Date Sampled: **04/04/24 12:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>4.19</b>	0.0500	mg/L dry	1	BHF0977	04/12/24	07/03/24	EPA 6020B	
<b>Magnesium</b>	<b>4.10</b>	0.0500	"	"	"	"	"	"	
<b>Sodium</b>	<b>373</b>	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **04/04/24 12:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Sodium Adsorption Ratio</b>	<b>31.0</b>	0.00100	units	1	BHG0109	05/22/24	07/03/24	Calculation	

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

Date Sampled: **04/04/24 12:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>pH</b>	<b>8.36</b>		pH Units	1	BHG0034	07/01/24	07/02/24	EPA 9045D	I-04

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Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
Project Manager: Paul Henchan

**Reported:**  
07/16/24 09:53

**SS-24 6FT**  
**2404075-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/04/24 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHD0154	04/04/24	04/04/24	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: **04/04/24 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0353	88.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0419	105 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0415	104 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/04/24 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHD0157	04/04/24	04/04/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/04/24 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	4.58	36.6 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project: Chevron - Grigsby AC19-62HN

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07/16/24 09:53

**SS-24 6FT**  
**2404075-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/04/24 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHD0160	04/05/24	04/05/24	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: **04/04/24 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0250	75.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0262	78.5 %	40-150		"	"	"	"	

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

Date Sampled: **04/04/24 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0364	04/11/24	04/25/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **04/04/24 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Number: CO24-022  
Project Manager: Paul Henchan

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07/16/24 09:53

**SS-24 6FT**  
**2404075-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.97	0.200	mg/kg dry	1	BHD0603	04/18/24	04/25/24	EPA 6020B	
Barium	112	0.400	"	"	"	"	"	"	
Cadmium	0.226	0.200	"	"	"	"	"	"	
Copper	11.6	0.400	"	"	"	"	"	"	
Lead	9.64	0.200	"	"	"	"	"	"	
Nickel	5.12	0.400	"	"	"	"	"	"	
Silver	0.0585	0.0200	"	"	"	"	"	"	
Zinc	31.0	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/04/24 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0345	04/11/24	04/12/24	EPA 7196A	

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

Date Sampled: **04/04/24 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.9		%	1	BHD0212	04/08/24	04/08/24	Calculation	

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

Date Sampled: **04/04/24 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	4.73	0.0100	mmhos/cm	1	BHD0416	04/12/24	04/16/24	EPA 120.1	

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

Date Sampled: **04/04/24 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.67		pH Units	1	BHD0417	04/12/24	04/16/24	EPA 9045D	

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
 Project Manager: Paul Henchan

**Reported:**  
 07/16/24 09:53

**SS-24 6FT**  
**2404075-02RE1 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/04/24 12:15**


Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>4.02</b>	0.0500	mg/L dry	1	BHF0977	04/12/24	07/03/24	EPA 6020B	
<b>Magnesium</b>	<b>8.09</b>	0.0500	"	"	"	"	"	"	
<b>Sodium</b>	<b>365</b>	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **04/04/24 12:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Sodium Adsorption Ratio</b>	<b>24.1</b>	0.00100	units	1	BHG0109	05/22/24	07/03/24	Calculation	

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Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
Project Manager: Paul Henchan

**Reported:**  
07/16/24 09:53

**SS-25 6FT**  
**2404075-03 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/04/24 12:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHD0154	04/04/24	04/04/24	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: **04/04/24 12:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0336	83.9 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0413	103 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0410	103 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/04/24 12:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHD0157	04/04/24	04/04/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **04/04/24 12:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	6.30	50.4 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
 Project Manager: Paul Henchan

**Reported:**  
 07/16/24 09:53

**SS-25 6FT**  
**2404075-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/04/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHD0160	04/05/24	04/05/24	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: **04/04/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0216	64.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0249	74.7 %	40-150		"	"	"	"	

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

Date Sampled: **04/04/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0364	04/11/24	04/25/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **04/04/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
 Project Manager: Paul Henchan

**Reported:**  
 07/16/24 09:53

**SS-25 6FT**  
**2404075-03 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	6.36	0.200	mg/kg dry	1	BHD0603	04/18/24	04/25/24	EPA 6020B
Barium	58.1	0.400	"	"	"	"	"	"
Cadmium	0.341	0.200	"	"	"	"	"	"
Copper	18.5	0.400	"	"	"	"	"	"
Lead	12.8	0.200	"	"	"	"	"	"
Nickel	7.81	0.400	"	"	"	"	"	"
Silver	0.0690	0.0200	"	"	"	"	"	"
Zinc	42.9	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/04/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0345	04/11/24	04/12/24	EPA 7196A	

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

Date Sampled: **04/04/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.8		%	1	BHD0212	04/08/24	04/08/24	Calculation	

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

Date Sampled: **04/04/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.96	0.0100	mmhos/cm	1	BHD0416	04/12/24	04/16/24	EPA 120.1	

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Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
 Project Manager: Paul Henchan

**Reported:**  
 07/16/24 09:53

**SS-25 6FT**  
**2404075-03RE1 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/04/24 12:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>10.5</b>	0.0500	mg/L dry	1	BHF0977	04/12/24	07/03/24	EPA 6020B	
<b>Magnesium</b>	<b>25.5</b>	0.0500	"	"	"	"	"	"	
<b>Sodium</b>	<b>414</b>	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **04/04/24 12:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Sodium Adsorption Ratio</b>	<b>15.7</b>	0.00100	units	1	BHG0109	05/22/24	07/03/24	Calculation	

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

Date Sampled: **04/04/24 12:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>pH</b>	<b>7.54</b>		pH Units	1	BHG0034	07/01/24	07/02/24	EPA 9045D	I-04

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Wellington CO, 80549

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
Project Manager: Paul Henchan

**Reported:**  
07/16/24 09:53

**SS-26 6FT**  
**2404075-04 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/04/24 12:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHD0154	04/04/24	04/04/24	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: **04/04/24 12:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0317	79.4 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0404	101 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0402	101 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/04/24 12:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHD0157	04/04/24	04/04/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **04/04/24 12:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	5.48	43.8 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
Project Manager: Paul Henchan

**Reported:**  
07/16/24 09:53

**SS-26 6FT**  
**2404075-04 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/04/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHD0160	04/05/24	04/05/24	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: **04/04/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0205	61.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0250	75.0 %	40-150		"	"	"	"	

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

Date Sampled: **04/04/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0364	04/11/24	04/25/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **04/04/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
Project Manager: Paul Henchan

**Reported:**  
07/16/24 09:53

**SS-26 6FT**  
**2404075-04 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	4.32	0.200	mg/kg dry	1	BHD0603	04/18/24	04/25/24	EPA 6020B
Barium	10.1	0.400	"	"	"	"	"	"
Cadmium	0.233	0.200	"	"	"	"	"	"
Copper	8.85	0.400	"	"	"	"	"	"
Lead	6.55	0.200	"	"	"	"	"	"
Nickel	6.69	0.400	"	"	"	"	"	"
Silver	0.0526	0.0200	"	"	"	"	"	"
Zinc	34.0	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/04/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0345	04/11/24	04/12/24	EPA 7196A	

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

Date Sampled: **04/04/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.8		%	1	BHD0212	04/08/24	04/08/24	Calculation	

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

Date Sampled: **04/04/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	6.06	0.0100	mmhos/cm	1	BHD0416	04/12/24	04/16/24	EPA 120.1	

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

Date Sampled: **04/04/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.99		pH Units	1	BHD0417	04/12/24	04/16/24	EPA 9045D	

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Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
 Project Manager: Paul Henchan

**Reported:**  
 07/16/24 09:53

**SS-26 6FT**  
**2404075-04RE1 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/04/24 12:25**


Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>5.91</b>	0.0500	mg/L dry	1	BHF0977	04/12/24	07/03/24	EPA 6020B	
<b>Magnesium</b>	<b>9.68</b>	0.0500	"	"	"	"	"	"	
<b>Sodium</b>	<b>200</b>	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **04/04/24 12:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Sodium Adsorption Ratio</b>	<b>11.8</b>	0.00100	units	1	BHG0109	05/22/24	07/03/24	Calculation	

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Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
Project Manager: Paul Henchan

**Reported:**  
07/16/24 09:53

**SS-27 6FT**  
**2404075-05 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/04/24 12:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHD0154	04/04/24	04/04/24	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: **04/04/24 12:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0330	82.5 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0427	107 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0411	103 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/04/24 12:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHD0157	04/04/24	04/04/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **04/04/24 12:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	6.85	54.8 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
 Project Manager: Paul Henchan

**Reported:**  
 07/16/24 09:53

**SS-27 6FT**  
**2404075-05 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/04/24 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHD0160	04/05/24	04/05/24	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: **04/04/24 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0222	66.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0226	67.9 %	40-150		"	"	"	"	

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

Date Sampled: **04/04/24 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0364	04/11/24	04/25/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **04/04/24 12:30**

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

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
Project Manager: Paul Henchan

**Reported:**  
07/16/24 09:53

**SS-27 6FT**  
**2404075-05 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.49	0.200	mg/kg dry	1	BHD0603	04/18/24	04/25/24	EPA 6020B	
Barium	9.60	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	6.56	0.400	"	"	"	"	"	"	
Lead	6.38	0.200	"	"	"	"	"	"	
Nickel	5.96	0.400	"	"	"	"	"	"	
Silver	0.0478	0.0200	"	"	"	"	"	"	
Zinc	31.8	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/04/24 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0345	04/11/24	04/12/24	EPA 7196A	

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

Date Sampled: **04/04/24 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.7		%	1	BHD0212	04/08/24	04/08/24	Calculation	

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

Date Sampled: **04/04/24 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	4.01	0.0100	mmhos/cm	1	BHD0416	04/12/24	04/16/24	EPA 120.1	

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 PO Box 1289  
 Wellington CO, 80549

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
 Project Manager: Paul Henchan

**Reported:**  
 07/16/24 09:53

**SS-27 6FT**  
**2404075-05RE1 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/04/24 12:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>5.13</b>	0.0500	mg/L dry	1	BHF0977	04/12/24	07/03/24	EPA 6020B	
<b>Magnesium</b>	<b>10.6</b>	0.0500	"	"	"	"	"	"	
<b>Sodium</b>	<b>344</b>	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **04/04/24 12:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Sodium Adsorption Ratio</b>	<b>19.9</b>	0.00100	units	1	BHG0109	05/22/24	07/03/24	Calculation	

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

Date Sampled: **04/04/24 12:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>pH</b>	<b>8.78</b>		pH Units	1	BHG0034	07/01/24	07/02/24	EPA 9045D	I-04

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PO Box 1289  
Wellington CO, 80549

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
Project Manager: Paul Henchan

**Reported:**  
07/16/24 09:53

**SS-28 6FT**  
**2404075-06 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/04/24 12:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHD0154	04/04/24	04/04/24	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: **04/04/24 12:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0330	82.6 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0429	107 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0408	102 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/04/24 12:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHD0157	04/04/24	04/04/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **04/04/24 12:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	8.59	68.7 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Wellington CO, 80549

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
Project Manager: Paul Henchan

**Reported:**  
07/16/24 09:53

**SS-28 6FT**  
**2404075-06 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/04/24 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHD0160	04/05/24	04/05/24	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: **04/04/24 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0163	49.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0184	55.1 %	40-150		"	"	"	"	

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

Date Sampled: **04/04/24 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0364	04/11/24	04/25/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **04/04/24 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
Project Manager: Paul Henchan

**Reported:**  
07/16/24 09:53

**SS-28 6FT**  
**2404075-06 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.46	0.200	mg/kg dry	1	BHD0603	04/18/24	04/25/24	EPA 6020B	
Barium	11.1	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	6.20	0.400	"	"	"	"	"	"	
Lead	6.16	0.200	"	"	"	"	"	"	
Nickel	6.02	0.400	"	"	"	"	"	"	
Silver	0.0425	0.0200	"	"	"	"	"	"	
Zinc	31.8	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/04/24 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0345	04/11/24	04/12/24	EPA 7196A	

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

Date Sampled: **04/04/24 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.1		%	1	BHD0212	04/08/24	04/08/24	Calculation	

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

Date Sampled: **04/04/24 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	4.12	0.0100	mmhos/cm	1	BHD0416	04/12/24	04/16/24	EPA 120.1	

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 PO Box 1289  
 Wellington CO, 80549

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
 Project Manager: Paul Henchan

**Reported:**  
 07/16/24 09:53

**SS-28 6FT**  
**2404075-06RE1 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/04/24 12:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>6.07</b>	0.0500	mg/L dry	1	BHF0977	04/12/24	07/03/24	EPA 6020B	
<b>Magnesium</b>	<b>8.10</b>	0.0500	"	"	"	"	"	"	
<b>Sodium</b>	<b>240</b>	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **04/04/24 12:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Sodium Adsorption Ratio</b>	<b>15.0</b>	0.00100	units	1	BHG0109	05/22/24	07/03/24	Calculation	

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

Date Sampled: **04/04/24 12:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>pH</b>	<b>8.71</b>		pH Units	1	BHG0034	07/01/24	07/02/24	EPA 9045D	I-04

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PO Box 1289  
Wellington CO, 80549

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
Project Manager: Paul Henchan

**Reported:**  
07/16/24 09:53

**SS-29 10FT**  
**2404075-07 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/04/24 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHD0154	04/04/24	04/05/24	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: **04/04/24 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0308	77.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0429	107 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0416	104 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/04/24 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHD0157	04/04/24	04/04/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/04/24 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	7.16	57.3 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Wellington CO, 80549

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
Project Manager: Paul Henchan

**Reported:**  
07/16/24 09:53

**SS-29 10FT**  
**2404075-07 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/04/24 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHD0160	04/05/24	04/06/24	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: **04/04/24 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0170	51.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0183	54.8 %	40-150		"	"	"	"	

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

Date Sampled: **04/04/24 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0364	04/11/24	04/25/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **04/04/24 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
Project Manager: Paul Henchan

**Reported:**  
07/16/24 09:53

**SS-29 10FT**  
**2404075-07 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.90	0.200	mg/kg dry	1	BHD0603	04/18/24	04/25/24	EPA 6020B	
Barium	11.7	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.56	0.400	"	"	"	"	"	"	
Lead	5.35	0.200	"	"	"	"	"	"	
Nickel	4.39	0.400	"	"	"	"	"	"	
Silver	0.0555	0.0200	"	"	"	"	"	"	
Zinc	27.2	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/04/24 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0345	04/11/24	04/12/24	EPA 7196A	

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

Date Sampled: **04/04/24 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.2		%	1	BHD0212	04/08/24	04/08/24	Calculation	

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

Date Sampled: **04/04/24 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.89	0.0100	mmhos/cm	1	BHD0416	04/12/24	04/16/24	EPA 120.1	

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

Date Sampled: **04/04/24 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.87		pH Units	1	BHD0417	04/12/24	04/16/24	EPA 9045D	

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Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
 Project Manager: Paul Henchan

**Reported:**  
 07/16/24 09:53

**SS-29 10FT**  
**2404075-07RE1 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/04/24 12:40**


Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	9.53	0.0500	mg/L dry	1	BHF0977	04/12/24	07/03/24	EPA 6020B	
Magnesium	16.7	0.0500	"	"	"	"	"	"	
Sodium	375	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **04/04/24 12:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	17.0	0.00100	units	1	BHG0109	05/22/24	07/03/24	Calculation	

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Wellington CO, 80549

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
Project Manager: Paul Henchan

**Reported:**  
07/16/24 09:53

**SS-30 6FT**  
**2404075-08 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/04/24 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.036	0.0020	mg/kg	1	BHD0154	04/04/24	04/05/24	EPA 8260B	
Toluene	0.020	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.030	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.072	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.094	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.023	0.0050	"	"	"	"	"	"	
Naphthalene	0.037	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	3.3	0.50	"	"	"	"	"	"	

Date Sampled: **04/04/24 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0254	63.5 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0462	116 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0389	97.2 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/04/24 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHD0157	04/04/24	04/05/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/04/24 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	7.92	63.4 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
Project Manager: Paul Henchan

**Reported:**  
07/16/24 09:53

**SS-30 6FT**  
**2404075-08 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/04/24 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHD0160	04/05/24	04/06/24	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	"	"	"	"	"	"	
<b>Fluorene</b>	<b>0.00953</b>	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>0.0279</b>	0.00500	"	"	"	"	"	"	
<b>2-Methylnaphthalene</b>	<b>0.0459</b>	0.00500	"	"	"	"	"	"	

Date Sampled: **04/04/24 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0163	48.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0208	62.4 %	40-150		"	"	"	"	

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

Date Sampled: **04/04/24 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0364	04/11/24	04/25/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **04/04/24 12:45**

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

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
Project Manager: Paul Henchan

**Reported:**  
07/16/24 09:53

**SS-30 6FT**  
**2404075-08 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	3.41	0.200	mg/kg dry	1	BHD0603	04/18/24	04/25/24	EPA 6020B
Barium	71.4	0.400	"	"	"	"	"	"
Cadmium	0.250	0.200	"	"	"	"	"	"
Copper	13.6	0.400	"	"	"	"	"	"
Lead	10.8	0.200	"	"	"	"	"	"
Nickel	6.01	0.400	"	"	"	"	"	"
Silver	0.0684	0.0200	"	"	"	"	"	"
Zinc	33.9	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/04/24 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0345	04/11/24	04/12/24	EPA 7196A	

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

Date Sampled: **04/04/24 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	10.6	0.0500	mg/L dry	1	BHD0414	04/12/24	05/21/24	EPA 6020B	
Magnesium	23.6	0.0500	"	"	"	"	"	"	
Sodium	696	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **04/04/24 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	27.2	0.00100	units	1	BHE0681	05/22/24	05/22/24	Calculation	

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

Date Sampled: **04/04/24 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
 Project Manager: Paul Henchan

**Reported:**  
 07/16/24 09:53

**SS-30 6FT**  
**2404075-08 (Soil)**

**Summit Scientific**

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

% Solids	82.2	%	1	BHD0212	04/08/24	04/08/24	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/04/24 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.22	0.0100	mmhos/cm	1	BHD0416	04/12/24	04/16/24	EPA 120.1	

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

Date Sampled: **04/04/24 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.97		pH Units	1	BHD0417	04/12/24	04/16/24	EPA 9045D	

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Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
Project Manager: Paul Henchan

**Reported:**  
07/16/24 09:53

**SS-32 10FT**  
**2404075-09 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/04/24 12:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHD0154	04/04/24	04/05/24	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: **04/04/24 12:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0310	77.6 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0441	110 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0401	100 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/04/24 12:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHD0157	04/04/24	04/05/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **04/04/24 12:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	7.33	58.6 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Wellington CO, 80549

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
Project Manager: Paul Henchan

**Reported:**  
07/16/24 09:53

**SS-32 10FT**  
**2404075-09 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/04/24 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHD0160	04/05/24	04/06/24	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: **04/04/24 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0182	54.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0173	51.8 %	40-150		"	"	"	"	

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

Date Sampled: **04/04/24 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0364	04/11/24	04/25/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **04/04/24 12:50**

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

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
Project Manager: Paul Henchan

**Reported:**  
07/16/24 09:53

**SS-32 10FT**  
**2404075-09 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	47.4	0.400	mg/kg dry	1	BHD0603	04/18/24	04/25/24	EPA 6020B	
Cadmium	0.433	0.200	"	"	"	"	"	"	
Copper	18.1	0.400	"	"	"	"	"	"	
Nickel	7.98	0.400	"	"	"	"	"	"	
Silver	0.167	0.0200	"	"	"	"	"	"	
Zinc	31.6	0.400	"	"	"	"	"	"	
Selenium	1.46	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/04/24 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0345	04/11/24	04/12/24	EPA 7196A	

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

Date Sampled: **04/04/24 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	76.3		%	1	BHD0212	04/08/24	04/08/24	Calculation	

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

Date Sampled: **04/04/24 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	5.44	0.0100	mmhos/cm	1	BHD0416	04/12/24	04/16/24	EPA 120.1	

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

Date Sampled: **04/04/24 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.62		pH Units	1	BHD0417	04/12/24	04/16/24	EPA 9045D	

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 PO Box 1289  
 Wellington CO, 80549

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
 Project Manager: Paul Henchan

**Reported:**  
 07/16/24 09:53

**SS-32 10FT**  
**2404075-09RE1 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **04/04/24 12:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Arsenic</b>	<b>2.90</b>	0.200	mg/kg dry	1	BHG0027	07/01/24	07/02/24	EPA 6020B	
<b>Lead</b>	<b>15.8</b>	0.200	"	"	"	"	"	"	

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

Date Sampled: **04/04/24 12:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>3.94</b>	0.0500	mg/L dry	1	BHF0977	04/12/24	07/03/24	EPA 6020B	
<b>Magnesium</b>	<b>7.78</b>	0.0500	"	"	"	"	"	"	
<b>Sodium</b>	<b>160</b>	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **04/04/24 12:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Sodium Adsorption Ratio</b>	<b>10.8</b>	0.00100	units	1	BHG0109	05/22/24	07/03/24	Calculation	

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Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
Project Manager: Paul Henchan

**Reported:**  
07/16/24 09:53

**SS-33 6FT**  
**2404075-10 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/04/24 12:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	3.3	0.20		mg/kg	100	BHD0154	04/04/24	04/05/24	EPA 8260B	
Toluene	0.12	0.0050		"	1	"	"	04/05/24	"	
Ethylbenzene	9.5	0.50		"	100	"	"	04/05/24	"	
Xylenes (total)	7.0	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	17	0.50		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	4.7	0.50		"	"	"	"	"	"	
Naphthalene	0.63	0.0038		"	1	"	"	04/05/24	"	
Gasoline Range Hydrocarbons	1500	50		"	100	"	"	04/05/24	"	

Date Sampled: **04/04/24 12:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0414	104 %		50-150		"	"	04/05/24	"	
Surrogate: Toluene-d8	0.292	729 %		50-150		"	"	"	"	S-02
Surrogate: 4-Bromofluorobenzene	0.123	307 %		50-150		"	"	"	"	S-02

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/04/24 12:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	6600	50		mg/kg	1	BHD0157	04/04/24	04/05/24	EPA 8015M	
C28-C36 (ORO)	1500	50		"	"	"	"	"	"	

Date Sampled: **04/04/24 12:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	9.63	77.1 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
Project Manager: Paul Henchan

**Reported:**  
07/16/24 09:53

**SS-33 6FT**  
**2404075-10 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/04/24 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Acenaphthene</b>	<b>0.210</b>	0.0500	mg/kg	10	BHD0160	04/05/24	04/06/24	EPA 8270D SIM	
<b>Anthracene</b>	<b>0.0757</b>	0.0500	"	"	"	"	"	"	
<b>Benzo (a) anthracene</b>	<b>0.210</b>	0.0500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.0500	"	"	"	"	"	"	R-05
Benzo (b) fluoranthene	ND	0.0500	"	"	"	"	"	"	R-05
Benzo (k) fluoranthene	ND	0.0500	"	"	"	"	"	"	R-05
<b>Chrysene</b>	<b>0.101</b>	0.0500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.0500	"	"	"	"	"	"	R-05
<b>Fluoranthene</b>	<b>0.0677</b>	0.0500	"	"	"	"	"	"	
<b>Fluorene</b>	<b>1.78</b>	0.0500	"	"	"	"	"	"	E
Indeno (1,2,3-cd) pyrene	ND	0.0500	"	"	"	"	"	"	R-05
<b>Pyrene</b>	<b>0.0618</b>	0.0500	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>13.5</b>	1.00	"	200	"	"	04/10/24	"	
<b>2-Methylnaphthalene</b>	<b>14.1</b>	1.00	"	"	"	"	"	"	

Date Sampled: **04/04/24 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0344	103 %	40-150		"	"	04/06/24	"	
Surrogate: Fluoranthene-d10	0.0663	199 %	40-150		"	"	"	"	S-01

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

Date Sampled: **04/04/24 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0364	04/11/24	04/25/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **04/04/24 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
Project Manager: Paul Henchan

**Reported:**  
07/16/24 09:53

**SS-33 6FT**  
**2404075-10 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.57	0.200	mg/kg dry	1	BHD0603	04/18/24	04/25/24	EPA 6020B	
Barium	17.6	0.400	"	"	"	"	"	"	
Cadmium	0.335	0.200	"	"	"	"	"	"	
Copper	18.3	0.400	"	"	"	"	"	"	
Lead	12.1	0.200	"	"	"	"	"	"	
Nickel	5.05	0.400	"	"	"	"	"	"	
Silver	0.0845	0.0200	"	"	"	"	"	"	
Zinc	26.8	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/04/24 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0345	04/11/24	04/12/24	EPA 7196A	

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

Date Sampled: **04/04/24 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	15.4	0.0500	mg/L dry	1	BHD0414	04/12/24	05/21/24	EPA 6020B	
Magnesium	15.2	0.0500	"	"	"	"	"	"	
Sodium	527	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **04/04/24 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	22.8	0.00100	units	1	BHE0681	05/22/24	05/22/24	Calculation	

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

Date Sampled: **04/04/24 12:55**

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

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
 Project Manager: Paul Henchan

**Reported:**  
 07/16/24 09:53

**SS-33 6FT**  
**2404075-10 (Soil)**

**Summit Scientific**

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

% Solids	82.4	%	1	BHD0212	04/08/24	04/08/24	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/04/24 12:55**

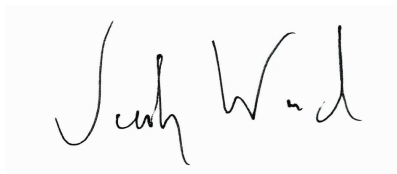
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.44	0.0100	mmhos/cm	1	BHD0416	04/12/24	04/16/24	EPA 120.1	

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

Date Sampled: **04/04/24 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.03		pH Units	1	BHD0417	04/12/24	04/16/24	EPA 9045D	

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Wellington CO, 80549

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
Project Manager: Paul Henchan

**Reported:**  
07/16/24 09:53

**SS-34 6FT**  
**2404075-11 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/04/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHD0154	04/04/24	04/04/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>0.020</b>	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>0.057</b>	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>2.2</b>	0.50	"	"	"	"	"	"	

Date Sampled: **04/04/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0415	104 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0416	104 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0407	102 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/04/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>C10-C28 (DRO)</b>	<b>230</b>	50	mg/kg	1	BHD0157	04/04/24	04/05/24	EPA 8015M	
<b>C28-C36 (ORO)</b>	<b>67</b>	50	"	"	"	"	"	"	

Date Sampled: **04/04/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	11.0	88.1 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Wellington CO, 80549

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
Project Manager: Paul Henchan

**Reported:**  
07/16/24 09:53

**SS-34 6FT**  
**2404075-11 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/04/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHD0160	04/05/24	04/06/24	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	"	"	"	"	"	"	
<b>Fluorene</b>	<b>0.0144</b>	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>0.0522</b>	0.00500	"	"	"	"	"	"	
<b>2-Methylnaphthalene</b>	<b>0.0926</b>	0.00500	"	"	"	"	"	"	

Date Sampled: **04/04/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0208	62.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0262	78.5 %	40-150		"	"	"	"	

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

Date Sampled: **04/04/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0364	04/11/24	04/25/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **04/04/24 13:00**

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

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
Project Manager: Paul Henchan

**Reported:**  
07/16/24 09:53

**SS-34 6FT**  
**2404075-11 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	2.44	0.200	mg/kg dry	1	BHD0603	04/18/24	04/25/24	EPA 6020B
Barium	69.1	0.400	"	"	"	"	"	"
Cadmium	0.221	0.200	"	"	"	"	"	"
Copper	12.4	0.400	"	"	"	"	"	"
Lead	9.87	0.200	"	"	"	"	"	"
Nickel	5.12	0.400	"	"	"	"	"	"
Silver	0.0649	0.0200	"	"	"	"	"	"
Zinc	26.9	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/04/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0345	04/11/24	04/12/24	EPA 7196A	

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

Date Sampled: **04/04/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	29.6	0.0500	mg/L dry	1	BHD0414	04/12/24	05/21/24	EPA 6020B	
Magnesium	37.3	0.0500	"	"	"	"	"	"	
Sodium	837	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **04/04/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	24.1	0.00100	units	1	BHE0681	05/22/24	05/22/24	Calculation	

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

Date Sampled: **04/04/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
 Project Manager: Paul Henchan

**Reported:**  
 07/16/24 09:53

**SS-34 6FT**  
**2404075-11 (Soil)**

**Summit Scientific**

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

<b>% Solids</b>	<b>82.4</b>	%	1	BHD0212	04/08/24	04/08/24	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/04/24 13:00**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Specific Conductance (EC)</b>	<b>3.79</b>	0.0100	mmhos/cm	1	BHD0416	04/12/24	04/16/24	EPA 120.1	

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

Date Sampled: **04/04/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>pH</b>	<b>8.65</b>		pH Units	1	BHD0417	04/12/24	04/16/24	EPA 9045D	

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Wellington CO, 80549

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
Project Manager: Paul Henchan

**Reported:**  
07/16/24 09:53

**SS-35 10FT**  
**2404075-12 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/04/24 13:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BHD0154	04/04/24	04/04/24	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: **04/04/24 13:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0393	98.3 %	50-150	"	"	"	"	"	
Surrogate: Toluene-d8	0.0431	108 %	50-150	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0408	102 %	50-150	"	"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/04/24 13:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BHD0157	04/04/24	04/05/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/04/24 13:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	6.40	51.2 %	30-150	"	"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
Project Manager: Paul Henchan

**Reported:**  
07/16/24 09:53

**SS-35 10FT**  
**2404075-12 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/04/24 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHD0160	04/05/24	04/06/24	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: **04/04/24 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0192	57.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0194	58.2 %	40-150		"	"	"	"	

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

Date Sampled: **04/04/24 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0364	04/11/24	04/25/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **04/04/24 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
Project Manager: Paul Henchan

**Reported:**  
07/16/24 09:53

**SS-35 10FT**  
**2404075-12 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.61	0.200	mg/kg dry	1	BHD0603	04/18/24	04/25/24	EPA 6020B	
Barium	169	0.400	"	"	"	"	"	"	
Copper	19.5	0.400	"	"	"	"	"	"	
Nickel	5.81	0.400	"	"	"	"	"	"	
Silver	0.113	0.0200	"	"	"	"	"	"	
Zinc	22.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/04/24 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0345	04/11/24	04/12/24	EPA 7196A	

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

Date Sampled: **04/04/24 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	77.3		%	1	BHD0212	04/08/24	04/08/24	Calculation	

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

Date Sampled: **04/04/24 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	4.30	0.0100	mmhos/cm	1	BHD0416	04/12/24	04/16/24	EPA 120.1	

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

Date Sampled: **04/04/24 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.15		pH Units	1	BHD0417	04/12/24	04/16/24	EPA 9045D	

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Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
 Project Manager: Paul Henchan

**Reported:**  
 07/16/24 09:53

**SS-35 10FT**  
**2404075-12RE1 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **04/04/24 13:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Cadmium</b>	<b>0.284</b>	0.200	mg/kg dry	1	BHG0027	07/01/24	07/02/24	EPA 6020B	
<b>Lead</b>	<b>15.0</b>	0.200	"	"	"	"	"	"	

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

Date Sampled: **04/04/24 13:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>2.62</b>	0.0500	mg/L dry	1	BHF0977	04/12/24	07/03/24	EPA 6020B	
<b>Magnesium</b>	<b>5.19</b>	0.0500	"	"	"	"	"	"	
<b>Sodium</b>	<b>118</b>	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **04/04/24 13:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Sodium Adsorption Ratio</b>	<b>9.72</b>	0.00100	units	1	BHG0109	05/22/24	07/03/24	Calculation	

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Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
Project Manager: Paul Henchan

**Reported:**  
07/16/24 09:53

**SS-36 6FT**  
**2404075-13 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/04/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHD0154	04/04/24	04/05/24	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: **04/04/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0425	106 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0439	110 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0384	96.1 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/04/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHD0157	04/04/24	04/05/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/04/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	8.49	67.9 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
Project Manager: Paul Henchan

**Reported:**  
07/16/24 09:53

**SS-36 6FT**  
**2404075-13 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/04/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHD0160	04/05/24	04/06/24	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: **04/04/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0187	56.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0202	60.7 %	40-150		"	"	"	"	

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

Date Sampled: **04/04/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0364	04/11/24	04/25/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **04/04/24 13:10**

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

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
Project Manager: Paul Henchan

**Reported:**  
07/16/24 09:53

**SS-36 6FT**  
**2404075-13 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	4.86	0.200	mg/kg dry	1	BHD0603	04/18/24	04/25/24	EPA 6020B
Barium	108	0.400	"	"	"	"	"	"
Cadmium	0.228	0.200	"	"	"	"	"	"
Copper	6.24	0.400	"	"	"	"	"	"
Lead	6.92	0.200	"	"	"	"	"	"
Nickel	4.04	0.400	"	"	"	"	"	"
Silver	0.0505	0.0200	"	"	"	"	"	"
Zinc	21.8	0.400	"	"	"	"	"	"
Selenium	0.334	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/04/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0345	04/11/24	04/12/24	EPA 7196A	

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

Date Sampled: **04/04/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	238	0.0500	mg/L dry	1	BHD0414	04/12/24	05/21/24	EPA 6020B	
Magnesium	99.0	0.0500	"	"	"	"	"	"	
Sodium	300	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **04/04/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.12	0.00100	units	1	BHE0681	05/22/24	05/22/24	Calculation	

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

Date Sampled: **04/04/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
 Project Manager: Paul Henchan

**Reported:**  
 07/16/24 09:53

**SS-36 6FT**  
**2404075-13 (Soil)**

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

<b>% Solids</b>	<b>83.8</b>	%	1	BHD0212	04/08/24	04/08/24	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/04/24 13:10**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Specific Conductance (EC)</b>	<b>2.60</b>	0.0100	mmhos/cm	1	BHD0416	04/12/24	04/16/24	EPA 120.1	

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

Date Sampled: **04/04/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>pH</b>	<b>8.01</b>		pH Units	1	BHD0417	04/12/24	04/16/24	EPA 9045D	

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Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
Project Manager: Paul Henchan

**Reported:**  
07/16/24 09:53

**SS-37 6FT**  
**2404075-14 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/04/24 13:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHD0154	04/04/24	04/05/24	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: **04/04/24 13:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0408	102 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0435	109 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0399	99.8 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/04/24 13:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHD0157	04/04/24	04/05/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **04/04/24 13:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	10.1	80.5 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
Project Manager: Paul Henchan

**Reported:**  
07/16/24 09:53

**SS-37 6FT**  
**2404075-14 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/04/24 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHD0160	04/05/24	04/06/24	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: **04/04/24 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0148	44.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0165	49.4 %	40-150		"	"	"	"	

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

Date Sampled: **04/04/24 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0364	04/11/24	04/25/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **04/04/24 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
Project Manager: Paul Henchan

**Reported:**  
07/16/24 09:53

**SS-37 6FT**  
**2404075-14 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	1.28	0.200	mg/kg dry	1	BHD0603	04/18/24	04/25/24	EPA 6020B
Barium	15.6	0.400	"	"	"	"	"	"
Cadmium	0.254	0.200	"	"	"	"	"	"
Copper	16.2	0.400	"	"	"	"	"	"
Lead	13.3	0.200	"	"	"	"	"	"
Nickel	5.05	0.400	"	"	"	"	"	"
Silver	0.0709	0.0200	"	"	"	"	"	"
Zinc	21.9	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/04/24 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0345	04/11/24	04/12/24	EPA 7196A	

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

Date Sampled: **04/04/24 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	79.9		%	1	BHD0212	04/08/24	04/08/24	Calculation	

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

Date Sampled: **04/04/24 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.76	0.0100	mmhos/cm	1	BHD0416	04/12/24	04/16/24	EPA 120.1	

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

Date Sampled: **04/04/24 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.14		pH Units	1	BHD0417	04/12/24	04/16/24	EPA 9045D	

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Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
 Project Manager: Paul Henchan

**Reported:**  
 07/16/24 09:53

**SS-37 6FT**  
**2404075-14RE1 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/04/24 13:15**


Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>4.16</b>	0.0500	mg/L dry	1	BHF0977	04/12/24	07/03/24	EPA 6020B	
<b>Magnesium</b>	<b>3.69</b>	0.0500	"	"	"	"	"	"	
<b>Sodium</b>	<b>126</b>	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **04/04/24 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Sodium Adsorption Ratio</b>	<b>10.8</b>	0.00100	units	1	BHG0109	05/22/24	07/03/24	Calculation	

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Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
Project Manager: Paul Henchan

**Reported:**  
07/16/24 09:53

**SS-38 6FT**  
**2404075-15 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/04/24 13:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BHD0154	04/04/24	04/05/24	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: **04/04/24 13:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0410	103 %	50-150	"	"	"	"	"	
Surrogate: Toluene-d8	0.0441	110 %	50-150	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0389	97.2 %	50-150	"	"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/04/24 13:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BHD0157	04/04/24	04/05/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/04/24 13:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	8.26	66.1 %	30-150	"	"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project Number: CO24-022  
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07/16/24 09:53

**SS-38 6FT**  
**2404075-15 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/04/24 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHD0160	04/05/24	04/06/24	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: **04/04/24 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0161	48.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0183	54.8 %	40-150		"	"	"	"	

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

Date Sampled: **04/04/24 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0364	04/11/24	04/25/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **04/04/24 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
Project Manager: Paul Henchan

**Reported:**  
07/16/24 09:53

**SS-38 6FT**  
**2404075-15 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.72	0.200	mg/kg dry	1	BHD0603	04/18/24	04/25/24	EPA 6020B	
Barium	25.5	0.400	"	"	"	"	"	"	
Copper	15.3	0.400	"	"	"	"	"	"	
Lead	14.2	0.200	"	"	"	"	"	"	
Nickel	7.22	0.400	"	"	"	"	"	"	
Silver	0.0733	0.0200	"	"	"	"	"	"	
Zinc	26.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/04/24 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0345	04/11/24	04/12/24	EPA 7196A	

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

Date Sampled: **04/04/24 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.6		%	1	BHD0212	04/08/24	04/08/24	Calculation	

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

Date Sampled: **04/04/24 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.57	0.0100	mmhos/cm	1	BHD0416	04/12/24	04/16/24	EPA 120.1	

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

Date Sampled: **04/04/24 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.85		pH Units	1	BHD0417	04/12/24	04/16/24	EPA 9045D	

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Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
 Project Manager: Paul Henchan

**Reported:**  
 07/16/24 09:53

**SS-38 6FT**  
**2404075-15RE1 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **04/04/24 13:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Cadmium</b>	<b>0.222</b>	0.200	mg/kg dry	1	BHG0027	07/01/24	07/02/24	EPA 6020B	

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

Date Sampled: **04/04/24 13:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>5.16</b>	0.0500	mg/L dry	1	BHF0977	04/12/24	07/03/24	EPA 6020B	
<b>Magnesium</b>	<b>3.74</b>	0.0500	"	"	"	"	"	"	
<b>Sodium</b>	<b>97.3</b>	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **04/04/24 13:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Sodium Adsorption Ratio</b>	<b>7.96</b>	0.00100	units	1	BHG0109	05/22/24	07/03/24	Calculation	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
Project Manager: Paul Henchan

**Reported:**  
07/16/24 09:53

### 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 BHD0154 - EPA 5030 Soil MS

##### Blank (BHD0154-BLK1)

Prepared: 04/04/24 Analyzed: 04/05/24

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>	0.0275		"	0.0400		68.8	50-150			
<i>Surrogate: Toluene-d8</i>	0.0449		"	0.0400		112	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0399		"	0.0400		99.8	50-150			

##### LCS (BHD0154-BS1)

Prepared: 04/04/24 Analyzed: 04/05/24

Benzene	0.0773	0.0020	mg/kg	0.100		77.3	70-130			
Toluene	0.106	0.0050	"	0.100		106	70-130			
Ethylbenzene	0.102	0.0050	"	0.100		102	70-130			
m,p-Xylene	0.206	0.010	"	0.200		103	70-130			
o-Xylene	0.102	0.0050	"	0.100		102	70-130			
1,2,4-Trimethylbenzene	0.0936	0.0050	"	0.100		93.6	70-130			
1,3,5-Trimethylbenzene	0.0958	0.0050	"	0.100		95.8	70-130			
Naphthalene	0.0771	0.0038	"	0.100		77.1	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0270		"	0.0400		67.4	50-150			
<i>Surrogate: Toluene-d8</i>	0.0443		"	0.0400		111	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0421		"	0.0400		105	50-150			

##### Matrix Spike (BHD0154-MS1)

Source: 2404072-01

Prepared: 04/04/24 Analyzed: 04/05/24

Benzene	0.0716	0.0020	mg/kg	0.100	ND	71.6	70-130			
Toluene	0.102	0.0050	"	0.100	ND	102	70-130			
Ethylbenzene	0.0961	0.0050	"	0.100	ND	96.1	70-130			
m,p-Xylene	0.192	0.010	"	0.200	ND	96.2	70-130			
o-Xylene	0.0956	0.0050	"	0.100	ND	95.6	70-130			
1,2,4-Trimethylbenzene	0.0880	0.0050	"	0.100	ND	88.0	70-130			
1,3,5-Trimethylbenzene	0.0902	0.0050	"	0.100	ND	90.2	70-130			
Naphthalene	0.0736	0.0038	"	0.100	ND	73.6	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0254		"	0.0400		63.4	50-150			
<i>Surrogate: Toluene-d8</i>	0.0456		"	0.0400		114	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0401		"	0.0400		100	50-150			

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Fremont Environmental  
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 Wellington CO, 80549

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
 Project Manager: Paul Henchan

**Reported:**  
 07/16/24 09:53

**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 BHD0154 - EPA 5030 Soil MS**

<b>Matrix Spike Dup (BHD0154-MSD1)</b>	<b>Source: 2404072-01</b>			<b>Prepared: 04/04/24 Analyzed: 04/05/24</b>						
Benzene	0.0926	0.0020	mg/kg	0.100	ND	92.6	70-130	25.7	30	
Toluene	0.131	0.0050	"	0.100	ND	131	70-130	24.7	30	QM-07
Ethylbenzene	0.118	0.0050	"	0.100	ND	118	70-130	20.3	30	
m,p-Xylene	0.236	0.010	"	0.200	ND	118	70-130	20.3	30	
o-Xylene	0.114	0.0050	"	0.100	ND	114	70-130	17.4	30	
1,2,4-Trimethylbenzene	0.107	0.0050	"	0.100	ND	107	70-130	19.2	30	
1,3,5-Trimethylbenzene	0.110	0.0050	"	0.100	ND	110	70-130	19.6	30	
Naphthalene	0.0811	0.0038	"	0.100	ND	81.1	70-130	9.62	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0259</i>		<i>"</i>	<i>0.0400</i>		<i>64.8</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0472</i>		<i>"</i>	<i>0.0400</i>		<i>118</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0428</i>		<i>"</i>	<i>0.0400</i>		<i>107</i>	<i>50-150</i>			

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Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
 Project Manager: Paul Henchan

**Reported:**  
 07/16/24 09:53

**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 BHD0157 - EPA 3550A**

**Blank (BHD0157-BLK1)**

Prepared: 04/04/24 Analyzed: 04/05/24

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	13.4		"	12.5		108		30-150			

**LCS (BHD0157-BS1)**

Prepared: 04/04/24 Analyzed: 04/05/24

C10-C28 (DRO)	528	50	mg/kg	500		106		70-130			
Surrogate: <i>o</i> -Terphenyl	14.6		"	12.5		117		30-150			

**Matrix Spike (BHD0157-MS1)**

Source: 2404072-01

Prepared: 04/04/24 Analyzed: 04/05/24

C10-C28 (DRO)	481	50	mg/kg	500	17.5	92.7		70-130			
Surrogate: <i>o</i> -Terphenyl	10.7		"	12.5		86.0		30-150			

**Matrix Spike Dup (BHD0157-MSD1)**

Source: 2404072-01

Prepared: 04/04/24 Analyzed: 04/05/24

C10-C28 (DRO)	485	50	mg/kg	500	17.5	93.6		70-130	0.889	20	
Surrogate: <i>o</i> -Terphenyl	12.5		"	12.5		99.9		30-150			

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Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
 Project Manager: Paul Henchan

**Reported:**  
 07/16/24 09:53

**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 BHD0160 - EPA 5030 Soil MS**

**Blank (BHD0160-BLK1)**

Prepared & Analyzed: 04/05/24

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0307</i>		<i>"</i>	<i>0.0333</i>		<i>92.0</i>		<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0322</i>		<i>"</i>	<i>0.0333</i>		<i>96.6</i>		<i>40-150</i>		

**LCS (BHD0160-BS1)**

Prepared & Analyzed: 04/05/24

Acenaphthene	0.0355	0.00500	mg/kg	0.0333	107	31-137
Anthracene	0.0376	0.00500	"	0.0333	113	30-120
Benzo (a) anthracene	0.0355	0.00500	"	0.0333	107	30-120
Benzo (a) pyrene	0.0281	0.00500	"	0.0333	84.4	30-120
Benzo (b) fluoranthene	0.0287	0.00500	"	0.0333	86.1	30-120
Benzo (k) fluoranthene	0.0291	0.00500	"	0.0333	87.3	30-120
Chrysene	0.0365	0.00500	"	0.0333	110	30-120
Dibenz (a,h) anthracene	0.0310	0.00500	"	0.0333	92.9	30-120
Fluoranthene	0.0366	0.00500	"	0.0333	110	30-120
Fluorene	0.0358	0.00500	"	0.0333	108	30-120
Indeno (1,2,3-cd) pyrene	0.0353	0.00500	"	0.0333	106	30-120
Pyrene	0.0415	0.00500	"	0.0333	124	35-142
1-Methylnaphthalene	0.0320	0.00500	"	0.0333	96.0	35-142
2-Methylnaphthalene	0.0433	0.00500	"	0.0333	130	35-142
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0333</i>		<i>"</i>	<i>0.0333</i>	<i>99.8</i>	<i>40-150</i>
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0356</i>		<i>"</i>	<i>0.0333</i>	<i>107</i>	<i>40-150</i>

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Wellington CO, 80549

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
Project Manager: Paul Henchan

**Reported:**  
07/16/24 09:53

**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 BHD0160 - EPA 5030 Soil MS**

<b>Matrix Spike (BHD0160-MS1)</b>	<b>Source: 2404022-01</b>			<b>Prepared &amp; Analyzed: 04/05/24</b>						
Acenaphthene	0.0241	0.00500	mg/kg	0.0333	ND	72.4	31-137			
Anthracene	0.0300	0.00500	"	0.0333	0.00500	74.9	30-120			
Benzo (a) anthracene	0.0359	0.00500	"	0.0333	0.0125	70.0	30-120			
Benzo (a) pyrene	0.0210	0.00500	"	0.0333	0.00760	40.3	30-120			
Benzo (b) fluoranthene	0.0257	0.00500	"	0.0333	0.0111	43.8	30-120			
Benzo (k) fluoranthene	0.0198	0.00500	"	0.0333	0.00538	43.2	30-120			
Chrysene	0.0305	0.00500	"	0.0333	0.0114	57.3	30-120			
Dibenz (a,h) anthracene	0.0143	0.00500	"	0.0333	ND	43.0	30-120			
Fluoranthene	0.0546	0.00500	"	0.0333	0.0302	72.9	30-120			
Fluorene	0.0257	0.00500	"	0.0333	ND	77.0	30-120			
Indeno (1,2,3-cd) pyrene	0.0208	0.00500	"	0.0333	ND	62.5	30-120			
Pyrene	0.0525	0.00500	"	0.0333	0.0274	75.4	35-142			
1-Methylnaphthalene	0.0212	0.00500	"	0.0333	ND	63.5	15-130			
2-Methylnaphthalene	0.0310	0.00500	"	0.0333	ND	93.1	15-130			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0218</i>		<i>"</i>	<i>0.0333</i>		<i>65.3</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0264</i>		<i>"</i>	<i>0.0333</i>		<i>79.2</i>	<i>40-150</i>			

<b>Matrix Spike Dup (BHD0160-MSD1)</b>	<b>Source: 2404022-01</b>			<b>Prepared &amp; Analyzed: 04/05/24</b>						
Acenaphthene	0.0219	0.00500	mg/kg	0.0333	ND	65.6	31-137	9.90	30	
Anthracene	0.0278	0.00500	"	0.0333	0.00500	68.4	30-120	7.51	30	
Benzo (a) anthracene	0.0377	0.00500	"	0.0333	0.0125	75.5	30-120	4.91	30	
Benzo (a) pyrene	0.0226	0.00500	"	0.0333	0.00760	45.0	30-120	7.26	30	
Benzo (b) fluoranthene	0.0277	0.00500	"	0.0333	0.0111	50.0	30-120	7.63	30	
Benzo (k) fluoranthene	0.0195	0.00500	"	0.0333	0.00538	42.2	30-120	1.57	30	
Chrysene	0.0309	0.00500	"	0.0333	0.0114	58.7	30-120	1.50	30	
Dibenz (a,h) anthracene	0.0144	0.00500	"	0.0333	ND	43.1	30-120	0.244	30	
Fluoranthene	0.0552	0.00500	"	0.0333	0.0302	74.8	30-120	1.13	30	
Fluorene	0.0245	0.00500	"	0.0333	ND	73.5	30-120	4.63	30	
Indeno (1,2,3-cd) pyrene	0.0220	0.00500	"	0.0333	ND	66.1	30-120	5.53	30	
Pyrene	0.0512	0.00500	"	0.0333	0.0274	71.6	35-142	2.49	30	
1-Methylnaphthalene	0.0187	0.00500	"	0.0333	ND	56.0	15-130	12.6	50	
2-Methylnaphthalene	0.0258	0.00500	"	0.0333	ND	77.5	15-130	18.3	50	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0195</i>		<i>"</i>	<i>0.0333</i>		<i>58.5</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0243</i>		<i>"</i>	<i>0.0333</i>		<i>72.9</i>	<i>40-150</i>			

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
 Project Manager: Paul Henchan

**Reported:**  
 07/16/24 09:53

**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 BHD0364 - EPA 3050B**

**Blank (BHD0364-BLK1)**

Prepared: 04/11/24 Analyzed: 04/25/24

Boron ND 2.00 mg/L

**LCS (BHD0364-BS1)**

Prepared: 04/11/24 Analyzed: 04/25/24

Boron 4.65 2.00 mg/L 5.00 93.1 80-120

**Duplicate (BHD0364-DUP1)**

Source: 2403288-15

Prepared: 04/11/24 Analyzed: 04/25/24

Boron 0.171 2.00 mg/L 0.233 30.7 20 QR-01

**Matrix Spike (BHD0364-MS1)**

Source: 2403288-15

Prepared: 04/11/24 Analyzed: 04/25/24

Boron 4.76 2.00 mg/L 5.00 0.233 90.4 75-125

**Matrix Spike Dup (BHD0364-MSD1)**

Source: 2403288-15

Prepared: 04/11/24 Analyzed: 04/25/24

Boron 4.80 2.00 mg/L 5.00 0.233 91.3 75-125 0.858 25

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Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
Project Manager: Paul Henchan

**Reported:**  
07/16/24 09:53

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

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

**Batch BHD0603 - EPA 3050B**

**Blank (BHD0603-BLK1)**

Prepared: 04/18/24 Analyzed: 04/25/24

Arsenic	ND	0.200	mg/kg wet							
Barium	ND	0.400	"							
Cadmium	ND	0.200	"							
Copper	ND	0.400	"							
Lead	ND	0.200	"							
Nickel	ND	0.400	"							
Silver	ND	0.0200	"							
Zinc	ND	0.400	"							
Selenium	ND	0.260	"							

**LCS (BHD0603-BS1)**

Prepared: 04/18/24 Analyzed: 04/25/24

Arsenic	38.1	0.200	mg/kg wet	40.0	95.2	80-120
Barium	38.8	0.400	"	40.0	97.1	80-120
Cadmium	1.93	0.200	"	2.00	96.5	80-120
Copper	40.9	0.400	"	40.0	102	80-120
Lead	19.4	0.200	"	20.0	96.8	80-120
Nickel	39.3	0.400	"	40.0	98.3	80-120
Silver	1.98	0.0200	"	2.00	99.0	80-120
Zinc	38.6	0.400	"	40.0	96.6	80-120
Selenium	3.87	0.260	"	4.00	96.8	80-120

**Duplicate (BHD0603-DUP1)**

Source: 2402094-12

Prepared: 04/18/24 Analyzed: 04/25/24

Arsenic	5.64	0.200	mg/kg dry	6.34	11.8	20
Barium	303	0.400	"	312	2.91	20
Cadmium	0.506	0.200	"	0.480	5.33	20
Copper	13.1	0.400	"	13.7	4.07	20
Lead	12.7	0.200	"	13.7	7.65	20
Nickel	4.72	0.400	"	4.86	2.93	20
Silver	0.0828	0.0200	"	0.0689	18.3	20
Zinc	18.0	0.400	"	18.1	0.719	20
Selenium	ND	0.260	"	ND		20

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Wellington CO, 80549

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
Project Manager: Paul Henchan

**Reported:**  
07/16/24 09:53

**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 BHD0603 - EPA 3050B**

**Matrix Spike (BHD0603-MS1)**

Source: 2402094-12

Prepared: 04/18/24 Analyzed: 04/25/24

Arsenic	57.2	0.200	mg/kg dry	49.6	6.34	102	75-125				
Barium	366	0.400	"	49.6	312	109	75-125				
Cadmium	2.93	0.200	"	2.48	0.480	98.8	75-125				
Copper	63.6	0.400	"	49.6	13.7	101	75-125				
Lead	35.5	0.200	"	24.8	13.7	88.1	75-125				
Nickel	30.5	0.400	"	49.6	4.86	51.7	75-125				QM-05
Silver	2.44	0.0200	"	2.48	0.0689	95.7	75-125				
Zinc	43.2	0.400	"	49.6	18.1	50.6	75-125				QM-05
Selenium	3.95	0.260	"	4.96	ND	79.6	75-125				

**Matrix Spike Dup (BHD0603-MSD1)**

Source: 2402094-12

Prepared: 04/18/24 Analyzed: 04/25/24

Arsenic	56.7	0.200	mg/kg dry	49.6	6.34	102	75-125	0.837	25		
Barium	374	0.400	"	49.6	312	126	75-125	2.24	25		QM-05
Cadmium	3.03	0.200	"	2.48	0.480	103	75-125	3.30	25		
Copper	63.2	0.400	"	49.6	13.7	99.9	75-125	0.640	25		
Lead	36.5	0.200	"	24.8	13.7	91.9	75-125	2.65	25		
Nickel	30.3	0.400	"	49.6	4.86	51.3	75-125	0.655	25		QM-05
Silver	2.51	0.0200	"	2.48	0.0689	98.4	75-125	2.70	25		
Zinc	42.7	0.400	"	49.6	18.1	49.7	75-125	1.07	25		QM-05
Selenium	3.87	0.260	"	4.96	ND	78.0	75-125	1.97	25		

**Batch BHG0027 - EPA 3050B**

**Blank (BHG0027-BLK1)**

Prepared: 07/01/24 Analyzed: 07/02/24

Arsenic	ND	0.200	mg/kg wet								
Barium	ND	0.400	"								
Cadmium	ND	0.200	"								
Copper	ND	0.400	"								
Lead	ND	0.200	"								
Nickel	ND	0.400	"								
Silver	ND	0.0200	"								
Zinc	ND	0.400	"								
Selenium	ND	0.260	"								

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
Project Manager: Paul Henchan

**Reported:**  
07/16/24 09:53

**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 BHG0027 - EPA 3050B**

**LCS (BHG0027-BS1)**

Prepared: 07/01/24 Analyzed: 07/02/24

Arsenic	40.4	0.200	mg/kg wet	40.0		101	80-120			
Barium	38.2	0.400	"	40.0		95.6	80-120			
Cadmium	1.90	0.200	"	2.00		95.2	80-120			
Copper	41.4	0.400	"	40.0		104	80-120			
Lead	19.8	0.200	"	20.0		99.2	80-120			
Nickel	40.8	0.400	"	40.0		102	80-120			
Silver	1.96	0.0200	"	2.00		98.0	80-120			
Zinc	40.2	0.400	"	40.0		100	80-120			
Selenium	4.58	0.260	"	4.00		114	80-120			

**Duplicate (BHG0027-DUP1)**

Source: 2404075-01RE1

Prepared: 07/01/24 Analyzed: 07/02/24

Arsenic	0.842	0.200	mg/kg dry		0.948			11.8	20	
Barium	13.1	0.400	"		10.4			22.8	20	QR-04
Cadmium	0.182	0.200	"		0.164			10.1	20	
Copper	2.96	0.400	"		2.81			5.27	20	
Lead	13.1	0.200	"		12.5			4.87	20	
Nickel	1.92	0.400	"		1.99			3.89	20	
Silver	0.0526	0.0200	"		0.0544			3.36	20	
Zinc	10.6	0.400	"		11.2			4.88	20	
Selenium	ND	0.260	"		ND				20	

**Matrix Spike (BHG0027-MS1)**

Source: 2404075-01RE1

Prepared: 07/01/24 Analyzed: 07/02/24

Arsenic	7.25	0.200	mg/kg dry	45.8	0.948	13.8	75-125			QM-05
Barium	30.1	0.400	"	45.8	10.4	43.0	75-125			QM-05
Cadmium	2.31	0.200	"	2.29	0.164	93.8	75-125			
Copper	9.52	0.400	"	45.8	2.81	14.7	75-125			QM-05
Lead	30.6	0.200	"	22.9	12.5	79.2	75-125			
Nickel	8.58	0.400	"	45.8	1.99	14.4	75-125			QM-05
Silver	2.21	0.0200	"	2.29	0.0544	94.1	75-125			
Zinc	17.9	0.400	"	45.8	11.2	14.6	75-125			QM-05
Selenium	4.34	0.260	"	4.58	ND	94.8	75-125			

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Fremont Environmental  
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 Wellington CO, 80549

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
 Project Manager: Paul Henchan

**Reported:**  
 07/16/24 09:53

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

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

**Batch BHG0027 - EPA 3050B**

<b>Matrix Spike Dup (BHG0027-MSD1)</b>	<b>Source: 2404075-01RE1</b>			Prepared: 07/01/24		Analyzed: 07/02/24					
Arsenic	6.93	0.180	mg/kg dry	44.5	0.948	13.5	75-125	4.52	25		QM-05
Barium	15.6	0.360	"	44.5	10.4	11.7	75-125	63.5	25		QM-05
Cadmium	2.18	0.180	"	2.22	0.164	90.7	75-125	5.87	25		
Copper	9.12	0.360	"	44.5	2.81	14.2	75-125	4.33	25		QM-05
Lead	28.1	0.180	"	22.2	12.5	70.6	75-125	8.30	25		QM-07
Nickel	8.38	0.360	"	44.5	1.99	14.4	75-125	2.37	25		QM-05
Silver	2.13	0.0180	"	2.22	0.0544	93.4	75-125	3.54	25		
Zinc	16.8	0.360	"	44.5	11.2	12.6	75-125	6.37	25		QM-05
Selenium	4.23	0.234	"	4.45	ND	95.2	75-125	2.49	25		

Summit Scientific

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 Wellington CO, 80549

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
 Project Manager: Paul Henchan

**Reported:**  
 07/16/24 09:53

**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 BHD0345 - 3060A Mod**

**Blank (BHD0345-BLK1)**

Prepared: 04/11/24 Analyzed: 04/12/24

Chromium, Hexavalent      ND      0.30 mg/kg wet

**LCS (BHD0345-BS1)**

Prepared: 04/11/24 Analyzed: 04/12/24

Chromium, Hexavalent      24.3      0.30 mg/kg wet      25.0      97.2      80-120

**Duplicate (BHD0345-DUP1)**

**Source: 2403485-01**

Prepared: 04/11/24 Analyzed: 04/12/24

Chromium, Hexavalent      ND      0.30 mg/kg dry      ND      20

**Matrix Spike (BHD0345-MS1)**

**Source: 2403485-01**

Prepared: 04/11/24 Analyzed: 04/12/24

Chromium, Hexavalent      30.0      0.30 mg/kg dry      30.8      ND      97.6      75-125

**Matrix Spike Dup (BHD0345-MSD1)**

**Source: 2403485-01**

Prepared: 04/11/24 Analyzed: 04/12/24

Chromium, Hexavalent      30.2      0.30 mg/kg dry      30.8      ND      98.0      75-125      0.409      20

Summit Scientific

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 Wellington CO, 80549

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
 Project Manager: Paul Henchan

**Reported:**  
 07/16/24 09:53

**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 BHD0414 - General Preparation**

**Blank (BHD0414-BLK1)**

Prepared: 04/12/24 Analyzed: 05/21/24

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

**LCS (BHD0414-BS1)**

Prepared: 04/12/24 Analyzed: 05/21/24

Calcium	5.48	0.0500	mg/L wet	5.00	110	70-130
Magnesium	4.94	0.0500	"	5.00	98.9	70-130
Sodium	4.82	0.0500	"	5.00	96.3	70-130

**Batch BHF0977 - General Preparation**

**Blank (BHF0977-BLK1)**

Prepared: 06/28/24 Analyzed: 07/03/24

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

**LCS (BHF0977-BS1)**

Prepared: 06/28/24 Analyzed: 07/03/24

Calcium	5.08	0.0500	mg/L wet	5.00	102	70-130
Magnesium	5.13	0.0500	"	5.00	103	70-130
Sodium	4.98	0.0500	"	5.00	99.6	70-130

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
 Project Manager: Paul Henchan

**Reported:**  
 07/16/24 09:53

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

**Summit Scientific**

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

**Batch BHD0212 - General Preparation**

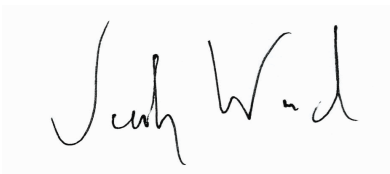
**Duplicate (BHD0212-DUP1)**

**Source: 2403477-01**

**Prepared & Analyzed: 04/08/24**

% Solids	90.7		%		91.7			1.06	20	
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Summit Scientific



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Fremont Environmental  
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 Wellington CO, 80549

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
 Project Manager: Paul Henchan

**Reported:**  
 07/16/24 09:53

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

**Summit Scientific**

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

**Batch BHD0416 - General Preparation**

**Blank (BHD0416-BLK1)**

Prepared: 04/12/24 Analyzed: 04/16/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BHD0416-BS1)**

Prepared: 04/12/24 Analyzed: 04/16/24

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

**Duplicate (BHD0416-DUP1)**

Source: 2403462-01

Prepared: 04/12/24 Analyzed: 04/16/24

Specific Conductance (EC) 0.503 0.0100 mmhos/cm 0.519 3.09 20

Summit Scientific

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 PO Box 1289  
 Wellington CO, 80549

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
 Project Manager: Paul Henchan

**Reported:**  
 07/16/24 09:53

**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 BHD0417 - General Preparation**

**LCS (BHD0417-BS1)**

Prepared: 04/12/24 Analyzed: 04/16/24

pH 9.23 pH Units 9.18 101 95-105

**Duplicate (BHD0417-DUP1)**

Source: 2403462-01

Prepared: 04/12/24 Analyzed: 04/16/24

pH 8.25 pH Units 8.15 1.22 20

**Batch BHG0034 - General Preparation**

**LCS (BHG0034-BS1)**

Prepared: 07/01/24 Analyzed: 07/02/24

pH 9.15 pH Units 9.18 99.7 95-105

**Duplicate (BHG0034-DUP1)**

Source: 2404075-01RE1

Prepared: 07/01/24 Analyzed: 07/02/24

pH 8.36 pH Units 8.36 0.00 20

Summit Scientific

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PO Box 1289  
Wellington CO, 80549

Project: Chevron - Grigsby AC19-62HN

Project Number: CO24-022  
Project Manager: Paul Henchan

**Reported:**  
07/16/24 09:53

### Notes and Definitions

- S-04 A sample matrix effect prevented complete surrogate recovery.
- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
- S-01 The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.
- R-05 The sample was diluted due to the presence of high levels of non-target analytes resulting in elevated reporting limits.
- QR-04 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- 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.
- 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.
- I-04 Sample was analyzed out of recommended holding time per clients request.
- 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