

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

December 18, 2024

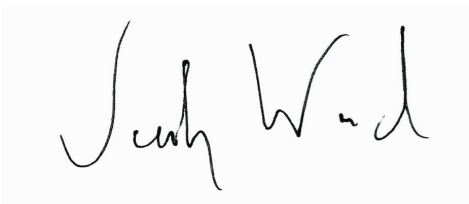
Paul Henchan  
Fremont Environmental  
PO Box 1289  
Wellington, CO 80549

RE: Chevron - CDOT F 1-10 Flowline (Excavation)

Work Order #2412188

Enclosed are the results of analyses for samples received by Summit Scientific on 12/10/24 16:03. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink that reads "Jacob Wood". The signature is written in a cursive style with a large initial "J" and a distinct "W".

Jacob Wood For Paul Shrewsbury  
President



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Chevron - CDOT F 1-10 Flowline (Excavation)

Project Number: UWRWE-A3472-ABN CO24-010

Project Manager: Paul Henchan

**Reported:**  
12/18/24 16:04

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
E2 Wall 3FT	2412188-01	Soil	12/10/24 10:35	12/10/24 16:03

Summit Scientific

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

Lab ID

Page 1 of 1

2412188

		<b>Send Data To:</b>	<b>Send Invoice To:</b>
Client: Fremont Environmental		Project Manager:	Company: Chevron
Address: 8305 6th St.		E-Mail: Chevron Dist. List, paulH, ethanB (@fremontenv.com)	Project Name/Location:
City/State/Zip: Wellington, CO			AFE#:
Phone: 603-477-6907		Project Name: Noble - CDOT F 1-10 Flowline (Excavation)	PO/Billing Codes: UWRWE-A3472-ABN
Sampler Name: Ethan Black		Project Number: C024-010	Contact: Dan Peterson

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Air-Canister #	Other	Analysis Requested							Special Instructions			
					HCl	HNO3	None	Other	Water	Soil			Full Table 915-1 (Soil)	Full Table 915-1 (GW)	NBTEX, TMBs	TPH (C6-C36)	PAHs	SAR, EC, pH, Boron	Table 915-1 Metals		TDS, Chloride, Sulfate		
1	E2 Wall 3FT	12/10/24	1035	2		X						X											
2																							
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							
13																							
14																							
15																							

Relinquished by: Ethan Black	Date/Time: 12/10/24 1145	Received by: S2	Date/Time: 12/10/24 1145	TAT Business Days	Field DO	Notes: Dist. Report to parties displayed in the email line(s), only.
Relinquished by: S2	Date/Time: 12/10/24 1030	Received by: [Signature]	Date/Time: 12/10/24 1030	Same Day <input checked="" type="checkbox"/>	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Temperature Upon Receipt: 6.3	Corrected Temperature: 6	IR gun #:	HNO3 lot #:	Standard	Field Turb.	

S<sub>2</sub>

Sample Receipt Checklist

S2 Work Order# 2412188

Client: Tremont Client Project ID: Note - CDOT F-1-10 Flowline (Excavation)

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

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

Temp (°C)  Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <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"/>	<u>on site</u>
If custody seals are present, are they intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>no sample time</u>
For volatiles in water - is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column - HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Comments (if any):

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

AS  
Custodian Printed Name

12/10/24  
Date/Time



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Chevron - CDOT F 1-10 Flowline (Excavation)

Project Number: UWRWE-A3472-ABN CO24-010  
Project Manager: Paul Henchan

**Reported:**  
12/18/24 16:04

**E2 Wall 3FT**  
**2412188-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **12/10/24 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHL0431	12/10/24	12/11/24	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: **12/10/24 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0433	108 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0404	101 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0384	96.0 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **12/10/24 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHL0433	12/10/24	12/10/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **12/10/24 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	7.84	62.7 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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**E2 Wall 3FT**  
**2412188-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **12/10/24 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Acenaphthene	ND	0.00500		mg/kg	1	BHL0518	12/12/24	12/16/24	EPA 8270D SIM	
Anthracene	ND	0.00500		"	"	"	"	"	"	
<b>Benzo (a) anthracene</b>	<b>0.00610</b>	0.00500		"	"	"	"	"	"	
<b>Benzo (a) pyrene</b>	<b>0.00574</b>	0.00500		"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500		"	"	"	"	"	"	
<b>Benzo (k) fluoranthene</b>	<b>0.0164</b>	0.00500		"	"	"	"	"	"	
<b>Chrysene</b>	<b>0.0125</b>	0.00500		"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500		"	"	"	"	"	"	
<b>Fluoranthene</b>	<b>0.0122</b>	0.00500		"	"	"	"	"	"	
Fluorene	ND	0.00500		"	"	"	"	"	"	
<b>Indeno (1,2,3-cd) pyrene</b>	<b>0.00677</b>	0.00500		"	"	"	"	"	"	
<b>Pyrene</b>	<b>0.0115</b>	0.00500		"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500		"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500		"	"	"	"	"	"	

Date Sampled: **12/10/24 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 2-Methylnaphthalene-d10	0.0232	69.5 %		40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0225	67.5 %		40-140		"	"	"	"	

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

Date Sampled: **12/10/24 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHL0453	12/11/24	12/12/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **12/10/24 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

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Wellington CO, 80549

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Project Number: UWRWE-A3472-ABN CO24-010  
Project Manager: Paul Henchan

**Reported:**  
12/18/24 16:04

**E2 Wall 3FT**  
**2412188-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	5.00	0.200	mg/kg dry	1	BHL0452	12/11/24	12/11/24	EPA 6020B
Barium	122	0.400	"	"	"	"	"	"
Cadmium	0.437	0.200	"	"	"	"	"	"
Copper	8.26	0.400	"	"	"	"	"	"
Lead	14.1	0.200	"	"	"	"	"	"
Nickel	6.85	0.400	"	"	"	"	"	"
Silver	0.0857	0.0200	"	"	"	"	"	"
Zinc	33.0	0.400	"	"	"	"	"	"
Selenium	0.517	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 12/10/24 10:35

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0468	12/11/24	12/11/24	EPA 7196A	

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

Date Sampled: 12/10/24 10:35

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	61.6	0.0500	mg/L dry	1	BHL0432	12/10/24	12/11/24	EPA 6020B	
Magnesium	20.9	0.0500	"	"	"	"	"	"	
Sodium	25.2	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: 12/10/24 10:35

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.708	0.00100	units	1	BHL0554	12/12/24	12/12/24	Calculation	

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

Date Sampled: 12/10/24 10:35

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

**Reported:**  
 12/18/24 16:04

**E2 Wall 3FT**  
**2412188-01 (Soil)**

**Summit Scientific**

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

% Solids	84.6	%	1	BHL0472	12/11/24	12/11/24	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **12/10/24 10:35**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.611	0.0100	mmhos/cm	1	BHL0435	12/10/24	12/11/24	EPA 120.1	

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

Date Sampled: **12/10/24 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.88		pH Units	1	BHL0434	12/10/24	12/11/24	EPA 9045D	

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**Reported:**  
12/18/24 16:04

### 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 BHL0431 - EPA 5030 Soil MS

##### Blank (BHL0431-BLK1)

Prepared: 12/10/24 Analyzed: 12/11/24

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	"								
Surrogate: 1,2-Dichloroethane-d4	0.0422		"	0.0400		105	50-150				
Surrogate: Toluene-d8	0.0406		"	0.0400		102	50-150				
Surrogate: 4-Bromofluorobenzene	0.0380		"	0.0400		95.1	50-150				

##### LCS (BHL0431-BS1)

Prepared: 12/10/24 Analyzed: 12/11/24

Benzene	0.0942	0.0020	mg/kg	0.100		94.2	70-130				
Toluene	0.0940	0.0050	"	0.100		94.0	70-130				
Ethylbenzene	0.0887	0.0050	"	0.100		88.7	70-130				
m,p-Xylene	0.180	0.010	"	0.200		90.2	70-130				
o-Xylene	0.0937	0.0050	"	0.100		93.7	70-130				
1,2,4-Trimethylbenzene	0.0902	0.0050	"	0.100		90.2	70-130				
1,3,5-Trimethylbenzene	0.0895	0.0050	"	0.100		89.5	70-130				
Naphthalene	0.0913	0.0038	"	0.100		91.3	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.0440		"	0.0400		110	50-150				
Surrogate: Toluene-d8	0.0399		"	0.0400		99.7	50-150				
Surrogate: 4-Bromofluorobenzene	0.0397		"	0.0400		99.3	50-150				

##### Matrix Spike (BHL0431-MS1)

Source: 2412187-01

Prepared: 12/10/24 Analyzed: 12/11/24

Benzene	0.0844	0.0020	mg/kg	0.100	ND	84.4	70-130				
Toluene	0.0860	0.0050	"	0.100	ND	86.0	70-130				
Ethylbenzene	0.0772	0.0050	"	0.100	ND	77.2	70-130				
m,p-Xylene	0.157	0.010	"	0.200	ND	78.6	70-130				
o-Xylene	0.0806	0.0050	"	0.100	ND	80.6	70-130				
1,2,4-Trimethylbenzene	0.0748	0.0050	"	0.100	ND	74.8	70-130				
1,3,5-Trimethylbenzene	0.0745	0.0050	"	0.100	ND	74.5	70-130				
Naphthalene	0.0808	0.0038	"	0.100	ND	80.8	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.0452		"	0.0400		113	50-150				
Surrogate: Toluene-d8	0.0406		"	0.0400		101	50-150				
Surrogate: 4-Bromofluorobenzene	0.0387		"	0.0400		96.7	50-150				

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**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 BHL0431 - EPA 5030 Soil MS**

Matrix Spike Dup (BHL0431-MSD1)	Source: 2412187-01			Prepared: 12/10/24 Analyzed: 12/11/24						
Benzene	0.0681	0.0020	mg/kg	0.100	ND	68.1	70-130	21.3	30	QM-05
Toluene	0.0695	0.0050	"	0.100	ND	69.5	70-130	21.1	30	QM-05
Ethylbenzene	0.0640	0.0050	"	0.100	ND	64.0	70-130	18.6	30	QM-05
m,p-Xylene	0.128	0.010	"	0.200	ND	64.2	70-130	20.2	30	QM-05
o-Xylene	0.0655	0.0050	"	0.100	ND	65.5	70-130	20.7	30	QM-05
1,2,4-Trimethylbenzene	0.0586	0.0050	"	0.100	ND	58.6	70-130	24.3	30	QM-05
1,3,5-Trimethylbenzene	0.0590	0.0050	"	0.100	ND	59.0	70-130	23.3	30	QM-05
Naphthalene	0.0615	0.0038	"	0.100	ND	61.5	70-130	27.1	30	QM-05
Surrogate: 1,2-Dichloroethane-d4	0.0433		"	0.0400		108	50-150			
Surrogate: Toluene-d8	0.0392		"	0.0400		98.0	50-150			
Surrogate: 4-Bromofluorobenzene	0.0390		"	0.0400		97.6	50-150			

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**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 BHL0433 - EPA 3550A**

**Blank (BHL0433-BLK1)**

Prepared: 12/10/24 Analyzed: 12/11/24

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	11.5		"	12.5		91.8		30-150			

**LCS (BHL0433-BS1)**

Prepared: 12/10/24 Analyzed: 12/11/24

C10-C28 (DRO)	451	50	mg/kg	500		90.3		70-130			
Surrogate: <i>o</i> -Terphenyl	11.6		"	12.5		92.5		30-150			

**Matrix Spike (BHL0433-MS1)**

Source: 2412187-01

Prepared: 12/10/24 Analyzed: 12/11/24

C10-C28 (DRO)	428	50	mg/kg	500	27.8	79.9		70-130			
Surrogate: <i>o</i> -Terphenyl	10.0		"	12.5		80.1		30-150			

**Matrix Spike Dup (BHL0433-MSD1)**

Source: 2412187-01

Prepared: 12/10/24 Analyzed: 12/11/24

C10-C28 (DRO)	416	50	mg/kg	500	27.8	77.6		70-130	2.80	20	
Surrogate: <i>o</i> -Terphenyl	9.91		"	12.5		79.3		30-150			

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**PAH by EPA Method 8270D SIM - Quality Control**

**Summit Scientific**

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

**Batch BHL0518 - EPA 5030 Soil MS**

**Blank (BHL0518-BLK1)**

Prepared: 12/12/24 Analyzed: 12/15/24

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>	0.0226		"	0.0333		67.8	40-140			
<i>Surrogate: Fluoranthene-d10</i>	0.0221		"	0.0333		66.4	40-140			

**LCS (BHL0518-BS1)**

Prepared: 12/12/24 Analyzed: 12/15/24

Acenaphthene	0.0158	0.00500	mg/kg	0.0333		47.5	40-140			
Anthracene	0.0168	0.00500	"	0.0333		50.4	40-140			
Benzo (a) anthracene	0.0183	0.00500	"	0.0333		54.9	40-140			
Benzo (a) pyrene	0.0155	0.00500	"	0.0333		46.4	40-140			
Benzo (b) fluoranthene	0.0152	0.00500	"	0.0333		45.5	40-140			
Benzo (k) fluoranthene	0.0157	0.00500	"	0.0333		47.2	40-140			
Chrysene	0.0168	0.00500	"	0.0333		50.4	40-140			
Dibenz (a,h) anthracene	0.0241	0.00500	"	0.0333		72.2	40-140			
Fluoranthene	0.0158	0.00500	"	0.0333		47.5	40-140			
Fluorene	0.0164	0.00500	"	0.0333		49.1	40-140			
Indeno (1,2,3-cd) pyrene	0.0176	0.00500	"	0.0333		52.7	40-140			
Pyrene	0.0203	0.00500	"	0.0333		60.9	40-140			
1-Methylnaphthalene	0.0154	0.00500	"	0.0333		46.3	40-140			
2-Methylnaphthalene	0.0155	0.00500	"	0.0333		46.4	40-140			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	0.0159		"	0.0333		47.8	40-140			
<i>Surrogate: Fluoranthene-d10</i>	0.0159		"	0.0333		47.7	40-140			

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Chevron - CDOT F 1-10 Flowline (Excavation)

Project Number: UWRWE-A3472-ABN CO24-010  
Project Manager: Paul Henchan

**Reported:**  
12/18/24 16:04

**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 BHL0518 - EPA 5030 Soil MS**

<b>Matrix Spike (BHL0518-MS1)</b>	<b>Source: 2412041-01</b>			<b>Prepared: 12/12/24 Analyzed: 12/15/24</b>						
Acenaphthene	0.0248	0.00500	mg/kg	0.0333	ND	74.4	40-140			
Anthracene	0.0257	0.00500	"	0.0333	ND	77.1	40-140			
Benzo (a) anthracene	0.0285	0.00500	"	0.0333	ND	85.4	40-140			
Benzo (a) pyrene	0.0166	0.00500	"	0.0333	ND	49.7	40-140			
Benzo (b) fluoranthene	0.0191	0.00500	"	0.0333	ND	57.4	40-140			
Benzo (k) fluoranthene	0.0152	0.00500	"	0.0333	ND	45.7	40-140			
Chrysene	0.0259	0.00500	"	0.0333	ND	77.6	40-140			
Dibenz (a,h) anthracene	0.0432	0.00500	"	0.0333	ND	130	40-140			
Fluoranthene	0.0230	0.00500	"	0.0333	ND	69.1	40-140			
Fluorene	0.0249	0.00500	"	0.0333	ND	74.8	40-140			
Indeno (1,2,3-cd) pyrene	0.0245	0.00500	"	0.0333	ND	73.4	40-140			
Pyrene	0.0306	0.00500	"	0.0333	ND	91.9	40-140			
1-Methylnaphthalene	0.0250	0.00500	"	0.0333	ND	75.0	40-140			
2-Methylnaphthalene	0.0251	0.00500	"	0.0333	ND	75.4	40-140			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0259</i>	<i>"</i>	<i>"</i>	<i>0.0333</i>	<i>"</i>	<i>77.7</i>	<i>40-140</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0232</i>	<i>"</i>	<i>"</i>	<i>0.0333</i>	<i>"</i>	<i>69.7</i>	<i>40-140</i>			

<b>Matrix Spike Dup (BHL0518-MSD1)</b>	<b>Source: 2412041-01</b>			<b>Prepared: 12/12/24 Analyzed: 12/15/24</b>						
Acenaphthene	0.0214	0.00500	mg/kg	0.0333	ND	64.3	40-140	14.6	30	
Anthracene	0.0229	0.00500	"	0.0333	ND	68.6	40-140	11.7	30	
Benzo (a) anthracene	0.0252	0.00500	"	0.0333	ND	75.7	40-140	12.0	30	
Benzo (a) pyrene	0.0208	0.00500	"	0.0333	ND	62.4	40-140	22.6	30	
Benzo (b) fluoranthene	0.0154	0.00500	"	0.0333	ND	46.2	40-140	21.7	30	
Benzo (k) fluoranthene	0.0159	0.00500	"	0.0333	ND	47.7	40-140	4.27	30	
Chrysene	0.0235	0.00500	"	0.0333	ND	70.4	40-140	9.73	30	
Dibenz (a,h) anthracene	0.0337	0.00500	"	0.0333	ND	101	40-140	24.6	30	
Fluoranthene	0.0209	0.00500	"	0.0333	ND	62.8	40-140	9.55	30	
Fluorene	0.0223	0.00500	"	0.0333	ND	66.9	40-140	11.1	30	
Indeno (1,2,3-cd) pyrene	0.0230	0.00500	"	0.0333	ND	68.9	40-140	6.30	30	
Pyrene	0.0285	0.00500	"	0.0333	ND	85.6	40-140	7.09	30	
1-Methylnaphthalene	0.0210	0.00500	"	0.0333	ND	63.1	40-140	17.2	30	
2-Methylnaphthalene	0.0212	0.00500	"	0.0333	ND	63.6	40-140	16.9	30	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0215</i>	<i>"</i>	<i>"</i>	<i>0.0333</i>	<i>"</i>	<i>64.6</i>	<i>40-140</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0213</i>	<i>"</i>	<i>"</i>	<i>0.0333</i>	<i>"</i>	<i>64.0</i>	<i>40-140</i>			

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Chevron - CDOT F 1-10 Flowline (Excavation)

Project Number: UWRWE-A3472-ABN CO24-010  
 Project Manager: Paul Henchan

**Reported:**  
 12/18/24 16:04

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

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

**Batch BHL0453 - EPA 3050B**

**Blank (BHL0453-BLK1)**

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

Boron ND 2.00 mg/L

**LCS (BHL0453-BS1)**

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

Boron 5.04 2.00 mg/L 5.00 101 80-120

**Duplicate (BHL0453-DUP1)**

Source: 2412091-01

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

Boron 0.101 2.00 mg/L 0.145 35.3 20 QR-01

**Matrix Spike (BHL0453-MS1)**

Source: 2412091-01

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

Boron 4.72 2.00 mg/L 5.05 0.145 90.6 75-125

**Matrix Spike Dup (BHL0453-MSD1)**

Source: 2412091-01

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

Boron 4.97 2.00 mg/L 5.05 0.145 95.5 75-125 5.17 25

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Project: Chevron - CDOT F 1-10 Flowline (Excavation)

Project Number: UWRWE-A3472-ABN CO24-010  
 Project Manager: Paul Henchan

**Reported:**  
 12/18/24 16:04

**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 BHL0452 - EPA 3050B**

**Blank (BHL0452-BLK1)**

Prepared & Analyzed: 12/11/24

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 (BHL0452-BS1)**

Prepared & Analyzed: 12/11/24

Arsenic	38.1	0.200	mg/kg wet	40.7	93.6	80-120
Barium	38.6	0.400	"	40.7	94.9	80-120
Cadmium	1.95	0.200	"	2.03	95.8	80-120
Copper	39.8	0.400	"	40.7	97.9	80-120
Lead	18.7	0.200	"	20.3	92.1	80-120
Nickel	39.4	0.400	"	40.7	97.0	80-120
Silver	1.96	0.0200	"	2.03	96.5	80-120
Zinc	39.5	0.400	"	40.7	97.2	80-120
Selenium	3.94	0.260	"	4.07	97.0	80-120

**Duplicate (BHL0452-DUP1)**

Source: 2411296-01

Prepared & Analyzed: 12/11/24

Arsenic	2.13	0.200	mg/kg dry	1.76	18.9	20
Barium	72.5	0.400	"	75.5	4.07	20
Cadmium	0.194	0.200	"	0.177	9.10	20
Copper	4.15	0.400	"	3.96	4.64	20
Lead	4.46	0.200	"	4.14	7.56	20
Nickel	4.74	0.400	"	3.13	40.9	20
Silver	0.0173	0.0200	"	0.0153	12.2	20
Zinc	22.5	0.400	"	20.3	10.1	20
Selenium	ND	0.260	"	ND		20

QR-04

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Project: Chevron - CDOT F 1-10 Flowline (Excavation)

Project Number: UWRWE-A3472-ABN CO24-010  
 Project Manager: Paul Henchan

**Reported:**  
 12/18/24 16:04

**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 BHL0452 - EPA 3050B**

**Matrix Spike (BHL0452-MS1)**

Source: 2411296-01

Prepared & Analyzed: 12/11/24

Arsenic	43.9	0.200	mg/kg dry	45.5	1.76	92.5	75-125			
Barium	120	0.400	"	45.5	75.5	96.8	75-125			
Cadmium	2.33	0.200	"	2.28	0.177	94.5	75-125			
Copper	38.4	0.400	"	45.5	3.96	75.6	75-125			
Lead	25.1	0.200	"	22.8	4.14	92.1	75-125			
Nickel	38.0	0.400	"	45.5	3.13	76.5	75-125			
Silver	2.14	0.0200	"	2.28	0.0153	93.4	75-125			
Zinc	58.7	0.400	"	45.5	20.3	84.4	75-125			
Selenium	4.32	0.260	"	4.55	ND	94.9	75-125			

**Matrix Spike Dup (BHL0452-MSD1)**

Source: 2411296-01

Prepared & Analyzed: 12/11/24

Arsenic	44.8	0.200	mg/kg dry	46.3	1.76	93.1	75-125	2.15	25	
Barium	95.2	0.400	"	46.3	75.5	42.6	75-125	22.7	25	QM-05
Cadmium	2.47	0.200	"	2.31	0.177	99.3	75-125	6.12	25	
Copper	33.5	0.400	"	46.3	3.96	63.8	75-125	13.6	25	QM-05
Lead	27.8	0.200	"	23.1	4.14	102	75-125	10.1	25	
Nickel	33.7	0.400	"	46.3	3.13	66.0	75-125	12.0	25	QM-05
Silver	2.14	0.0200	"	2.31	0.0153	92.0	75-125	0.0921	25	
Zinc	64.9	0.400	"	46.3	20.3	96.3	75-125	9.96	25	
Selenium	4.37	0.260	"	4.63	ND	94.5	75-125	1.19	25	

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Fremont Environmental  
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Project: Chevron - CDOT F 1-10 Flowline (Excavation)

Project Number: UWRWE-A3472-ABN CO24-010  
 Project Manager: Paul Henchan

**Reported:**  
 12/18/24 16:04

**Hexavalent Chromium by EPA Method 7196 - Quality Control**  
**Summit Scientific**

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

**Batch BHL0468 - 3060A Mod**

**Blank (BHL0468-BLK1)**

Prepared & Analyzed: 12/11/24

Chromium, Hexavalent      ND      0.30    mg/kg wet

**LCS (BHL0468-BS1)**

Prepared & Analyzed: 12/11/24

Chromium, Hexavalent      25.4      0.30    mg/kg wet      25.0      102      80-120

**Duplicate (BHL0468-DUP1)**

**Source: 2411380-01**

Prepared & Analyzed: 12/11/24

Chromium, Hexavalent      ND      0.30    mg/kg dry      ND      20

**Matrix Spike (BHL0468-MS1)**

**Source: 2411380-01**

Prepared & Analyzed: 12/11/24

Chromium, Hexavalent      26.8      0.30    mg/kg dry      27.1      ND      99.0      75-125

**Matrix Spike Dup (BHL0468-MSD1)**

**Source: 2411380-01**

Prepared & Analyzed: 12/11/24

Chromium, Hexavalent      28.9      0.30    mg/kg dry      27.1      ND      107      75-125      7.58      20

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 Wellington CO, 80549

Project: Chevron - CDOT F 1-10 Flowline (Excavation)

Project Number: UWRWE-A3472-ABN CO24-010  
 Project Manager: Paul Henchan

**Reported:**  
 12/18/24 16:04

**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 BHL0432 - General Preparation**

**Blank (BHL0432-BLK1)**

Prepared: 12/10/24 Analyzed: 12/11/24

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

**LCS (BHL0432-BS1)**

Prepared: 12/10/24 Analyzed: 12/11/24

Calcium	5.41	0.0500	mg/L wet	5.00	108	70-130				
Magnesium	4.72	0.0500	"	5.00	94.5	70-130				
Sodium	4.68	0.0500	"	5.00	93.6	70-130				

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Project: Chevron - CDOT F 1-10 Flowline (Excavation)

Project Number: UWRWE-A3472-ABN CO24-010  
 Project Manager: Paul Henchan

**Reported:**  
 12/18/24 16:04

**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 BHL0472 - General Preparation**

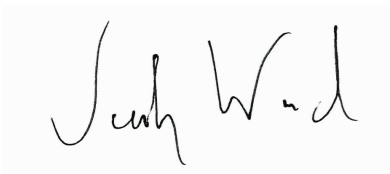
**Duplicate (BHL0472-DUP1)**

**Source: 2411420-01**

**Prepared & Analyzed: 12/11/24**

% Solids	90.5		%		90.4			0.102		20	
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Summit Scientific



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 PO Box 1289  
 Wellington CO, 80549

Project: Chevron - CDOT F 1-10 Flowline (Excavation)

Project Number: UWRWE-A3472-ABN CO24-010  
 Project Manager: Paul Henchan

**Reported:**  
 12/18/24 16:04

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

**Summit Scientific**

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

**Batch BHL0435 - General Preparation**

**Blank (BHL0435-BLK1)**

Prepared: 12/10/24 Analyzed: 12/11/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BHL0435-BS1)**

Prepared: 12/10/24 Analyzed: 12/11/24

Specific Conductance (EC) 0.158 0.0100 mmhos/cm 0.150 105 95-105

**Duplicate (BHL0435-DUP1)**

Source: 2411287-01

Prepared: 12/10/24 Analyzed: 12/11/24

Specific Conductance (EC) 1.26 0.0100 mmhos/cm 1.26 0.397 20

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Chevron - CDOT F 1-10 Flowline (Excavation)

Project Number: UWRWE-A3472-ABN CO24-010  
 Project Manager: Paul Henchan

**Reported:**  
 12/18/24 16:04

**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 BHL0434 - General Preparation**

**LCS (BHL0434-BS1)**

Prepared: 12/10/24 Analyzed: 12/11/24

pH 9.13 pH Units 9.18 99.5 95-105

**Duplicate (BHL0434-DUP1)**

Source: 2411287-01

Prepared: 12/10/24 Analyzed: 12/11/24

pH 7.90 pH Units 7.91 0.126 20

Summit Scientific

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Fremont Environmental  
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Wellington CO, 80549

Project: Chevron - CDOT F 1-10 Flowline (Excavation)

Project Number: UWRWE-A3472-ABN CO24-010

Project Manager: Paul Henchan

**Reported:**  
12/18/24 16:04

### Notes and Definitions

- QR-04 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
- QR-01 Analyses are not controlled on RPD values from sample concentrations below the reporting limit. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
- 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