

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

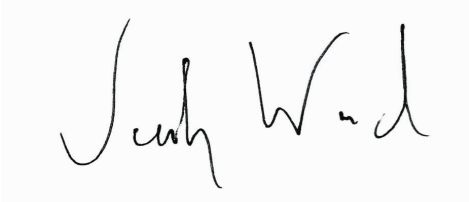
April 17, 2024

Paul Henchan  
Fremont Environmental  
PO Box 1289  
Wellington, CO 80549

RE: Chevron - Howard USX A09-06 Flowline  
Work Order #2403099

Enclosed are the results of analyses for samples received by Summit Scientific on 03/06/24 16:30. 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 small "w" at the end of the last name.

Jacob Wood For Paul Shrewsbury  
President



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Chevron - Howard USX A09-06 Flowline

Project Number: UWRWE-A3557-ABN CO24-052

Project Manager: Paul Henchan

**Reported:**  
04/17/24 10:45

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL01 2FT	2403099-01	Soil	03/05/24 00:00	03/06/24 16:30

Summit Scientific

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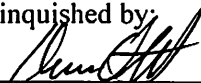
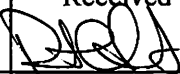
# SUMMIT SCIENTIFIC

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

Lab ID	Page 1 of 1
2403099	

		<b>Send Data To:</b>	<b>Send Invoice To:</b>
Client: Fremont Environmental	Project Manager: Paul Henehan		Company: CHEVRON
Address: 8305 6th Street	E-Mail: Fremont Distribution List		Project Name/Location:
City/State/Zip: Wellington, CO, 80549			AFE#: UWRWE-A3557-ARN
Phone: 603-477-6907	Project Name: Howard USX A09-06 Flawline		PO/Billing Codes:
Sampler Name: Aaron Otilar	Project Number: C024-052		Contact: Mike Morboya

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested						Special Instructions		
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEXN - 915	TPH (C6-C36)	PAH	TMB's - 915	Metals (915-1)		SAR, EC, pH, Boron	TDS, Cl, SO4
1	FLD1 2Ft	3/5/24		2			X			X				X	X	X	X	X		
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				

Relinquished by: 	Date/Time: 3/5/24 1655	Received by: Summit North Office	Date/Time: 3/5/24 1655	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by: 52	Date/Time: 3/20/24 1650	Received by: 	Date/Time: 3/20/24 1630	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	X Field Turb.	
Temperature Upon Receipt: 9.4	Corrected Temperature: 8	IR gun #: 1	HNO3 lot #:			

S<sub>2</sub>

Sample Receipt Checklist

S2 Work Order# 2403099

Client: Fremont Client Project ID: Howard USX A09-06 Flowline

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

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

Temp (°C) 04 Thermometer # 1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? (1) NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact? (1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>all OK</u>
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <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? (1)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>no sample time</u>
Is the COC properly relinquished by the client w/ date and time recorded? (1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? (1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? (1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? (1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? (1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water - is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>"</u>
Are samples preserved that require preservation (excluding cooling)? (1) 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? (1) Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

AS  
Custodian Printed Name  
3/6/21  
Date/Time



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Chevron - Howard USX A09-06 Flowline

Project Number: UWRWE-A3557-ABN CO24-052  
Project Manager: Paul Henchan

**Reported:**  
04/17/24 10:45

**FL01 2FT**  
**2403099-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **03/05/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHC0193	03/07/24	03/10/24	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: **03/05/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0357	89.2 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0378	94.6 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0315	78.8 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **03/05/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHC0196	03/07/24	03/09/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **03/05/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	12.4	99.3 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project Manager: Paul Henchan

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04/17/24 10:45

**FL01 2FT**  
**2403099-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **03/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0214	03/08/24	03/08/24	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: **03/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0158	47.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0218	65.3 %	40-150		"	"	"	"	

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

Date Sampled: **03/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0455	03/15/24	03/25/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **03/05/24 00:00**

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

Project: Chevron - Howard USX A09-06 Flowline

Project Number: UWRWE-A3557-ABN CO24-052  
Project Manager: Paul Henchan

**Reported:**  
04/17/24 10:45

**FL01 2FT**  
**2403099-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	3.57	0.200	mg/kg dry	1	BHC0594	03/18/24	03/24/24	EPA 6020B
Barium	146	0.400	"	"	"	"	"	"
Cadmium	0.286	0.200	"	"	"	"	"	"
Copper	6.37	0.400	"	"	"	"	"	"
Lead	7.98	0.200	"	"	"	"	"	"
Nickel	5.74	0.400	"	"	"	"	"	"
Silver	0.0372	0.0200	"	"	"	"	"	"
Zinc	23.9	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **03/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0602	03/18/24	03/19/24	EPA 7196A	

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

Date Sampled: **03/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	60.9	0.0500	mg/L dry	1	BHC0833	03/21/24	04/17/24	EPA 6020B	
Magnesium	13.4	0.0500	"	"	"	"	"	"	
Sodium	10.3	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **03/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.311	0.00100	units	1	BHD0534	04/17/24	04/17/24	Calculation	

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

Date Sampled: **03/05/24 00:00**

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

Project: Chevron - Howard USX A09-06 Flowline

Project Number: UWRWE-A3557-ABN CO24-052  
 Project Manager: Paul Henchan

**Reported:**  
 04/17/24 10:45

**FL01 2FT**  
**2403099-01 (Soil)**

**Summit Scientific**

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

% Solids	88.2	%	1	BHC0427	03/15/24	03/15/24	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **03/05/24 00:00**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.344	0.0100	mmhos/cm	1	BHC0837	03/21/24	03/24/24	EPA 120.1	

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

Date Sampled: **03/05/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.20		pH Units	1	BHC0835	03/21/24	03/24/24	EPA 9045D	

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Project: Chevron - Howard USX A09-06 Flowline  
Project Number: UWRWE-A3557-ABN CO24-052  
Project Manager: Paul Henchan

**Reported:**  
04/17/24 10:45

### 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 BHC0193 - EPA 5030 Soil MS

##### Blank (BHC0193-BLK1)

Prepared: 03/07/24 Analyzed: 03/08/24

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>	0.0420		"	0.0400		105	50-150			
<i>Surrogate: Toluene-d8</i>	0.0406		"	0.0400		101	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0388		"	0.0400		96.9	50-150			

##### LCS (BHC0193-BS1)

Prepared: 03/07/24 Analyzed: 03/08/24

Benzene	0.111	0.0020	mg/kg	0.100		111	70-130			
Toluene	0.110	0.0050	"	0.100		110	70-130			
Ethylbenzene	0.119	0.0050	"	0.100		119	70-130			
m,p-Xylene	0.238	0.010	"	0.200		119	70-130			
o-Xylene	0.117	0.0050	"	0.100		117	70-130			
1,2,4-Trimethylbenzene	0.105	0.0050	"	0.100		105	70-130			
1,3,5-Trimethylbenzene	0.102	0.0050	"	0.100		102	70-130			
Naphthalene	0.0982	0.0038	"	0.100		98.2	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0452		"	0.0400		113	50-150			
<i>Surrogate: Toluene-d8</i>	0.0406		"	0.0400		101	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0438		"	0.0400		110	50-150			

##### Matrix Spike (BHC0193-MS1)

Source: 2403099-01

Prepared: 03/07/24 Analyzed: 03/08/24

Benzene	0.0856	0.0020	mg/kg	0.100	ND	85.6	70-130			
Toluene	0.0856	0.0050	"	0.100	ND	85.6	70-130			
Ethylbenzene	0.0921	0.0050	"	0.100	ND	92.1	70-130			
m,p-Xylene	0.183	0.010	"	0.200	ND	91.4	70-130			
o-Xylene	0.0928	0.0050	"	0.100	ND	92.8	70-130			
1,2,4-Trimethylbenzene	0.0791	0.0050	"	0.100	ND	79.1	70-130			
1,3,5-Trimethylbenzene	0.0782	0.0050	"	0.100	ND	78.2	70-130			
Naphthalene	0.0943	0.0038	"	0.100	ND	94.3	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0401		"	0.0400		100	50-150			
<i>Surrogate: Toluene-d8</i>	0.0395		"	0.0400		98.8	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0457		"	0.0400		114	50-150			

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Project: Chevron - Howard USX A09-06 Flowline

Project Number: UWRWE-A3557-ABN CO24-052  
 Project Manager: Paul Henchan

**Reported:**  
 04/17/24 10:45

**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		

**Batch BHC0193 - EPA 5030 Soil MS**

Matrix Spike Dup (BHC0193-MSD1)	Source: 2403099-01			Prepared: 03/07/24 Analyzed: 03/08/24						
Benzene	0.106	0.0020	mg/kg	0.100	ND	106	70-130	21.1	30	
Toluene	0.104	0.0050	"	0.100	ND	104	70-130	19.1	30	
Ethylbenzene	0.0966	0.0050	"	0.100	ND	96.6	70-130	4.77	30	
m,p-Xylene	0.191	0.010	"	0.200	ND	95.6	70-130	4.51	30	
o-Xylene	0.0966	0.0050	"	0.100	ND	96.6	70-130	4.02	30	
1,2,4-Trimethylbenzene	0.0814	0.0050	"	0.100	ND	81.4	70-130	2.92	30	
1,3,5-Trimethylbenzene	0.0807	0.0050	"	0.100	ND	80.7	70-130	3.25	30	
Naphthalene	0.0783	0.0038	"	0.100	ND	78.3	70-130	18.6	30	
Surrogate: 1,2-Dichloroethane-d4	0.0418		"	0.0400		104	50-150			
Surrogate: Toluene-d8	0.0401		"	0.0400		100	50-150			
Surrogate: 4-Bromofluorobenzene	0.0394		"	0.0400		98.6	50-150			

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Project: Chevron - Howard USX A09-06 Flowline  
Project Number: UWRWE-A3557-ABN CO24-052  
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**Reported:**  
04/17/24 10:45

**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 BHC0196 - EPA 3550A**

**Blank (BHC0196-BLK1)**

Prepared: 03/07/24 Analyzed: 03/09/24

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	14.8		"	12.5		119	30-150				

**LCS (BHC0196-BS1)**

Prepared: 03/07/24 Analyzed: 03/09/24

C10-C28 (DRO)	551	50	mg/kg	500		110	70-130				
Surrogate: <i>o</i> -Terphenyl	13.2		"	12.5		105	30-150				

**Matrix Spike (BHC0196-MS1)**

Source: 2403099-01

Prepared: 03/07/24 Analyzed: 03/09/24

C10-C28 (DRO)	543	50	mg/kg	500	32.0	102	70-130				
Surrogate: <i>o</i> -Terphenyl	12.8		"	12.5		103	30-150				

**Matrix Spike Dup (BHC0196-MSD1)**

Source: 2403099-01

Prepared: 03/07/24 Analyzed: 03/09/24

C10-C28 (DRO)	496	50	mg/kg	500	32.0	92.8	70-130	8.95	20		
Surrogate: <i>o</i> -Terphenyl	12.4		"	12.5		99.1	30-150				

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Project Manager: Paul Henchan

**Reported:**  
04/17/24 10:45

**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 BHC0214 - EPA 5030 Soil MS**

**Blank (BHC0214-BLK1)**

Prepared & Analyzed: 03/08/24

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>0.0341</i>		"	<i>0.0333</i>		<i>102</i>		<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0375</i>		"	<i>0.0333</i>		<i>112</i>		<i>40-150</i>		

**LCS (BHC0214-BS1)**

Prepared & Analyzed: 03/08/24

Acenaphthene	0.0387	0.00500	mg/kg	0.0333	116	31-137
Anthracene	0.0373	0.00500	"	0.0333	112	30-120
Benzo (a) anthracene	0.0356	0.00500	"	0.0333	107	30-120
Benzo (a) pyrene	0.0327	0.00500	"	0.0333	98.1	30-120
Benzo (b) fluoranthene	0.0349	0.00500	"	0.0333	105	30-120
Benzo (k) fluoranthene	0.0390	0.00500	"	0.0333	117	30-120
Chrysene	0.0387	0.00500	"	0.0333	116	30-120
Dibenz (a,h) anthracene	0.0304	0.00500	"	0.0333	91.2	30-120
Fluoranthene	0.0363	0.00500	"	0.0333	109	30-120
Fluorene	0.0379	0.00500	"	0.0333	114	30-120
Indeno (1,2,3-cd) pyrene	0.0307	0.00500	"	0.0333	92.0	30-120
Pyrene	0.0359	0.00500	"	0.0333	108	35-142
1-Methylnaphthalene	0.0345	0.00500	"	0.0333	103	35-142
2-Methylnaphthalene	0.0346	0.00500	"	0.0333	104	35-142
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0383</i>		"	<i>0.0333</i>	<i>115</i>	<i>40-150</i>
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0376</i>		"	<i>0.0333</i>	<i>113</i>	<i>40-150</i>

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Chevron - Howard USX A09-06 Flowline

Project Number: UWRWE-A3557-ABN CO24-052  
Project Manager: Paul Henchan

**Reported:**  
04/17/24 10:45

**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 BHC0214 - EPA 5030 Soil MS**

**Matrix Spike (BHC0214-MS1)**

Source: 2403099-01

Prepared & Analyzed: 03/08/24

Acenaphthene	0.0218	0.00500	mg/kg	0.0333	ND	65.5	31-137			
Anthracene	0.0203	0.00500	"	0.0333	ND	60.9	30-120			
Benzo (a) anthracene	0.0211	0.00500	"	0.0333	ND	63.3	30-120			
Benzo (a) pyrene	0.0199	0.00500	"	0.0333	ND	59.6	30-120			
Benzo (b) fluoranthene	0.0163	0.00500	"	0.0333	ND	48.8	30-120			
Benzo (k) fluoranthene	0.0174	0.00500	"	0.0333	ND	52.1	30-120			
Chrysene	0.0217	0.00500	"	0.0333	ND	65.1	30-120			
Dibenz (a,h) anthracene	0.0254	0.00500	"	0.0333	ND	76.3	30-120			
Fluoranthene	0.0214	0.00500	"	0.0333	ND	64.3	30-120			
Fluorene	0.0223	0.00500	"	0.0333	ND	67.0	30-120			
Indeno (1,2,3-cd) pyrene	0.0251	0.00500	"	0.0333	ND	75.4	30-120			
Pyrene	0.0234	0.00500	"	0.0333	ND	70.2	35-142			
1-Methylnaphthalene	0.0170	0.00500	"	0.0333	ND	51.1	15-130			
2-Methylnaphthalene	0.0288	0.00500	"	0.0333	ND	86.5	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0169		"	0.0333		50.6	40-150			
Surrogate: Fluoranthene-d10	0.0226		"	0.0333		67.7	40-150			

**Matrix Spike Dup (BHC0214-MSD1)**

Source: 2403099-01

Prepared & Analyzed: 03/08/24

Acenaphthene	0.0232	0.00500	mg/kg	0.0333	ND	69.5	31-137	5.91	30
Anthracene	0.0220	0.00500	"	0.0333	ND	65.9	30-120	7.92	30
Benzo (a) anthracene	0.0220	0.00500	"	0.0333	ND	66.0	30-120	4.17	30
Benzo (a) pyrene	0.0201	0.00500	"	0.0333	ND	60.3	30-120	1.09	30
Benzo (b) fluoranthene	0.0165	0.00500	"	0.0333	ND	49.4	30-120	1.40	30
Benzo (k) fluoranthene	0.0168	0.00500	"	0.0333	ND	50.4	30-120	3.47	30
Chrysene	0.0219	0.00500	"	0.0333	ND	65.7	30-120	0.892	30
Dibenz (a,h) anthracene	0.0260	0.00500	"	0.0333	ND	77.9	30-120	2.11	30
Fluoranthene	0.0218	0.00500	"	0.0333	ND	65.4	30-120	1.74	30
Fluorene	0.0232	0.00500	"	0.0333	ND	69.7	30-120	3.91	30
Indeno (1,2,3-cd) pyrene	0.0256	0.00500	"	0.0333	ND	76.8	30-120	1.79	30
Pyrene	0.0242	0.00500	"	0.0333	ND	72.7	35-142	3.44	30
1-Methylnaphthalene	0.0163	0.00500	"	0.0333	ND	49.0	15-130	4.15	50
2-Methylnaphthalene	0.0344	0.00500	"	0.0333	ND	103	15-130	17.7	50
Surrogate: 2-Methylnaphthalene-d10	0.0192		"	0.0333		57.6	40-150		
Surrogate: Fluoranthene-d10	0.0233		"	0.0333		69.9	40-150		

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Chevron - Howard USX A09-06 Flowline  
 Project Number: UWRWE-A3557-ABN CO24-052  
 Project Manager: Paul Henchan

**Reported:**  
 04/17/24 10:45

**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 BHC0455 - EPA 3050B**

**Blank (BHC0455-BLK1)**

Prepared: 03/15/24 Analyzed: 03/25/24

Boron ND 2.00 mg/L

**LCS (BHC0455-BS1)**

Prepared: 03/15/24 Analyzed: 03/25/24

Boron 8.32 2.00 mg/L 5.00 166 80-120 QLCS-01

**Duplicate (BHC0455-DUP1)**

Source: 2403068-01

Prepared: 03/15/24 Analyzed: 03/25/24

Boron 0.351 2.00 mg/L 0.360 2.60 20

**Matrix Spike (BHC0455-MS1)**

Source: 2403068-01

Prepared: 03/15/24 Analyzed: 03/25/24

Boron 8.48 2.00 mg/L 5.00 0.360 162 75-125 QLCS-01

**Matrix Spike Dup (BHC0455-MSD1)**

Source: 2403068-01

Prepared: 03/15/24 Analyzed: 03/25/24

Boron 8.41 2.00 mg/L 5.00 0.360 161 75-125 0.839 25 QLCS-01

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Wellington CO, 80549

Project: Chevron - Howard USX A09-06 Flowline  
Project Number: UWRWE-A3557-ABN CO24-052  
Project Manager: Paul Henchan

**Reported:**  
04/17/24 10:45

**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 BHC0594 - EPA 3050B**

**Blank (BHC0594-BLK1)**

Prepared: 03/18/24 Analyzed: 03/24/24

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 (BHC0594-BS1)**

Prepared: 03/18/24 Analyzed: 03/24/24

Arsenic	37.0	0.200	mg/kg wet	40.0		92.5	80-120			
Barium	38.0	0.400	"	40.0		94.9	80-120			
Cadmium	2.00	0.200	"	2.00		100	80-120			
Copper	43.7	0.400	"	40.0		109	80-120			
Lead	19.6	0.200	"	20.0		98.1	80-120			
Nickel	43.2	0.400	"	40.0		108	80-120			
Silver	1.98	0.0200	"	2.00		99.2	80-120			
Zinc	44.0	0.400	"	40.0		110	80-120			
Selenium	4.57	0.260	"	4.00		114	80-120			

**Duplicate (BHC0594-DUP1)**

Source: 2403087-01

Prepared: 03/18/24 Analyzed: 03/24/24

Arsenic	3.14	0.200	mg/kg dry		3.28		4.28	20		
Barium	73.7	0.400	"		71.4		3.18	20		
Cadmium	0.136	0.200	"		0.137		0.639	20		
Copper	3.88	0.400	"		4.13		6.09	20		
Lead	5.87	0.200	"		8.18		32.9	20		QR-04
Nickel	3.91	0.400	"		3.74		4.58	20		
Silver	0.0553	0.0200	"		0.0261		71.7	20		QR-04
Zinc	15.3	0.400	"		14.9		2.79	20		
Selenium	ND	0.260	"		ND			20		

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Chevron - Howard USX A09-06 Flowline

Project Number: UWRWE-A3557-ABN CO24-052  
 Project Manager: Paul Henchan

**Reported:**  
 04/17/24 10:45

**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 BHC0594 - EPA 3050B**

**Matrix Spike (BHC0594-MS1)**

Source: 2403087-01

Prepared: 03/18/24 Analyzed: 03/24/24

Arsenic	42.4	0.200	mg/kg dry	43.6	3.28	89.8	75-125			
Barium	108	0.400	"	43.6	71.4	84.2	75-125			
Cadmium	2.41	0.200	"	2.18	0.137	104	75-125			
Copper	35.5	0.400	"	43.6	4.13	71.9	75-125			QM-07
Lead	26.7	0.200	"	21.8	8.18	85.0	75-125			
Nickel	34.4	0.400	"	43.6	3.74	70.3	75-125			QM-07
Silver	2.18	0.0200	"	2.18	0.0261	98.7	75-125			
Zinc	46.6	0.400	"	43.6	14.9	72.9	75-125			QM-07
Selenium	4.54	0.260	"	4.36	ND	104	75-125			

**Matrix Spike Dup (BHC0594-MSD1)**

Source: 2403087-01

Prepared: 03/18/24 Analyzed: 03/24/24

Arsenic	42.4	0.200	mg/kg dry	43.6	3.28	89.8	75-125	0.0822	25	
Barium	108	0.400	"	43.6	71.4	85.2	75-125	0.393	25	
Cadmium	2.34	0.200	"	2.18	0.137	101	75-125	3.01	25	
Copper	35.9	0.400	"	43.6	4.13	72.9	75-125	1.18	25	QM-07
Lead	26.5	0.200	"	21.8	8.18	84.2	75-125	0.686	25	
Nickel	34.8	0.400	"	43.6	3.74	71.4	75-125	1.39	25	QM-07
Silver	2.15	0.0200	"	2.18	0.0261	97.6	75-125	1.15	25	
Zinc	47.4	0.400	"	43.6	14.9	74.8	75-125	1.73	25	QM-07
Selenium	4.08	0.260	"	4.36	ND	93.6	75-125	10.7	25	

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Chevron - Howard USX A09-06 Flowline  
 Project Number: UWRWE-A3557-ABN CO24-052  
 Project Manager: Paul Henchan

**Reported:**  
 04/17/24 10:45

**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 BHC0602 - 3060A Mod**

**Blank (BHC0602-BLK1)**

Prepared: 03/18/24 Analyzed: 03/19/24

Chromium, Hexavalent ND 0.30 mg/kg wet

**LCS (BHC0602-BS1)**

Prepared: 03/18/24 Analyzed: 03/19/24

Chromium, Hexavalent 25.1 0.30 mg/kg wet 25.0 100 80-120

**Duplicate (BHC0602-DUP1)**

**Source: 2403096-01**

Prepared: 03/18/24 Analyzed: 03/19/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

**Matrix Spike (BHC0602-MS1)**

**Source: 2403096-01**

Prepared: 03/18/24 Analyzed: 03/19/24

Chromium, Hexavalent 27.9 0.30 mg/kg dry 26.9 ND 104 75-125

**Matrix Spike Dup (BHC0602-MSD1)**

**Source: 2403096-01**

Prepared: 03/18/24 Analyzed: 03/19/24

Chromium, Hexavalent 27.9 0.30 mg/kg dry 26.9 ND 104 75-125 0.00 20

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Chevron - Howard USX A09-06 Flowline  
 Project Number: UWRWE-A3557-ABN CO24-052  
 Project Manager: Paul Henchan

**Reported:**  
 04/17/24 10:45

**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 BHC0833 - General Preparation**

**Blank (BHC0833-BLK1)**

Prepared: 03/21/24 Analyzed: 04/16/24

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

**LCS (BHC0833-BS1)**

Prepared: 03/21/24 Analyzed: 04/16/24

Calcium	5.71	0.0500	mg/L wet	5.00	114	70-130				
Magnesium	5.27	0.0500	"	5.00	105	70-130				
Sodium	5.04	0.0500	"	5.00	101	70-130				

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 Wellington CO, 80549

Project: Chevron - Howard USX A09-06 Flowline

Project Number: UWRWE-A3557-ABN CO24-052  
 Project Manager: Paul Henchan

**Reported:**  
 04/17/24 10:45

**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 BHC0427 - General Preparation**


**Duplicate (BHC0427-DUP1)**

**Source: 2403084-01**

Prepared & Analyzed: 03/15/24

% Solids	92.8		%		92.5			0.394	20	
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Summit Scientific



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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Chevron - Howard USX A09-06 Flowline

Project Number: UWRWE-A3557-ABN CO24-052  
 Project Manager: Paul Henchan

**Reported:**  
 04/17/24 10:45

**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 BHC0837 - General Preparation**

**Blank (BHC0837-BLK1)**

Prepared: 03/21/24 Analyzed: 03/24/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BHC0837-BS1)**

Prepared: 03/21/24 Analyzed: 03/24/24

Specific Conductance (EC) 0.152 0.0100 mmhos/cm 0.150 101 95-105

**Duplicate (BHC0837-DUP1)**

Source: 2403087-01

Prepared: 03/21/24 Analyzed: 03/24/24

Specific Conductance (EC) 0.388 0.0100 mmhos/cm 0.393 1.38 20

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Chevron - Howard USX A09-06 Flowline

Project Number: UWRWE-A3557-ABN CO24-052  
 Project Manager: Paul Henchan

**Reported:**  
 04/17/24 10:45

**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 BHC0835 - General Preparation**

**LCS (BHC0835-BS1)**

Prepared: 03/21/24 Analyzed: 03/24/24

pH	9.18	pH Units	9.18	100	95-105
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**Duplicate (BHC0835-DUP1)**

Source: 2403087-01

Prepared: 03/21/24 Analyzed: 03/24/24

pH	8.27	pH Units	8.32	0.603	20
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Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Chevron - Howard USX A09-06 Flowline

Project Number: UWRWE-A3557-ABN CO24-052

Project Manager: Paul Henchan

**Reported:**  
04/17/24 10:45

### Notes and Definitions

- 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.
- 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.
- QLCS-01 The spike recovery was outside acceptance limits for this analyte indicating a potential high bias. The corresponding samples did not exhibit concentrations above reporting level for this analyte. Data quality is not affected.
- 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