

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

November 11, 2024

AJ Engelhardt

Tasman Geosciences

6855 W. 119th Ave.

Broomfield, CO 80020

RE: Chevron - UPRC 35-06F

Work Order #2410561

Enclosed are the results of analyses for samples received by Summit Scientific on 10/29/24 18:26. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Natalie Tessier For Paul Shrewsbury

President



Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Chevron - UPRC 35-06F

Project Number: [none]
Project Manager: AJ Engelhardt

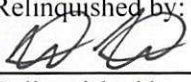
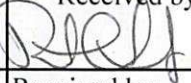
Reported:
11/11/24 10:34

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL01R-W@3'	2410561-01	Soil	10/29/24 11:08	10/29/24 18:26

Send Data To:		Send Invoice To:
Client: Chevron/Tasman	Project Manager: AJ Engelhardt	Company: Chevron
Address: 6855 W. 119th Avenue	E-Mail: tas-chevron-3@tasman-geo.com	Project Name/Location: UPRC 35.06F
City/State/Zip: Broomfield, CO 80020		AFE#:
Phone: 978-857-4408	Project Name: UPRC 35.06F	PO/Billing Codes:
Sampler Name: Matthew Wentzel	Project Number:	Contact: Dan Peterson ^{mw} Miguel Barron

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested						Special Instructions		
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	915-VOC	915-PAH	915-TPH	pH, EC, SAR	Boron		915-Metals	
1	FLOOR WQ 3'	10.29.24	1100	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: 10.29.24 1400	Received by: Tasman Lockbox	Date/Time: 10.29.24 1400	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by: Tasman Lockbox	Date/Time: 10.29.24 1820	Received by: 	Date/Time: 10.29.24 1820	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
Temperature Upon Receipt: 3.9	Corrected Temperature: 0	IR gun #:		Standard	X Field Turb.	
					X	HNO3 lot #:

S₂

Sample Receipt Checklist

S2 Work Order# 2410561

Client: Cheriton Casman

Client Project ID: UARC 35-06F

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

Airbill #: _____

-

Matrix (Check all that apply)

Air

Soil/Solid

Water

Other

Temp (°C)

Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>OUT OF</u>
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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"/>	
Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Comments (if any):

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

AS

Custodian Printed Name

10/29/24
Date/Time

0.0000



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Broomfield CO, 80020

Project: Chevron - UPRC 35-06F

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
11/11/24 10:34

FL01R-W@3'
2410561-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/29/24 11:08**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BHK0046	11/01/24	11/03/24	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: **10/29/24 11:08**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0424	106 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0401	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0395	98.7 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/29/24 11:08**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BHK0048	11/01/24	11/03/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/29/24 11:08**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	7.39	59.1 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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PAH by EPA Method 8270D SIM

Date Sampled: **10/29/24 11:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHJ1333	10/30/24	10/31/24	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: **10/29/24 11:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0155	46.6 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0179	53.8 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/29/24 11:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHK0263	11/06/24	11/08/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/29/24 11:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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2410561-01 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	2.19	0.200	mg/kg dry	1	BHK0414	11/08/24	11/09/24	EPA 6020B
Barium	46.0	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	5.41	0.400	"	"	"	"	"	"
Lead	10.3	0.200	"	"	"	"	"	"
Nickel	3.47	0.400	"	"	"	"	"	"
Silver	0.0555	0.0200	"	"	"	"	"	"
Zinc	19.2	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/29/24 11:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0411	11/08/24	11/08/24	EPA 7196A	

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

Date Sampled: **10/29/24 11:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	35.7	0.0500	mg/L dry	1	BHK0076	11/02/24	11/05/24	EPA 6020B	
Magnesium	12.2	0.0500	"	"	"	"	"	"	
Sodium	65.3	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/29/24 11:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.41	0.00100	units	1	BHK0272	11/06/24	11/06/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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2410561-01 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/29/24 11:08**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	85.8			%	1	BHK0188	11/05/24	11/05/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/29/24 11:08**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.476	0.0100		mmhos/cm	1	BHK0077	11/02/24	11/05/24	EPA 120.1	

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

Date Sampled: **10/29/24 11:08**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.13			pH Units	1	BHK0078	11/02/24	11/05/24	EPA 9045D	

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Project Number: [none]
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Reported:
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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 BHK0046 - EPA 5030 Soil MS

Blank (BHK0046-BLK1)

Prepared: 11/01/24 Analyzed: 11/02/24

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>	<i>0.0422</i>		<i>"</i>	<i>0.0400</i>		<i>105</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0394</i>		<i>"</i>	<i>0.0400</i>		<i>98.6</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0388</i>		<i>"</i>	<i>0.0400</i>		<i>97.0</i>	<i>50-150</i>			

LCS (BHK0046-BS1)

Prepared: 11/01/24 Analyzed: 11/02/24

Benzene	0.0945	0.0020	mg/kg	0.100		94.5	70-130			
Toluene	0.0915	0.0050	"	0.100		91.5	70-130			
Ethylbenzene	0.0891	0.0050	"	0.100		89.1	70-130			
m,p-Xylene	0.179	0.010	"	0.200		89.3	70-130			
o-Xylene	0.0910	0.0050	"	0.100		91.0	70-130			
1,2,4-Trimethylbenzene	0.0864	0.0050	"	0.100		86.4	70-130			
1,3,5-Trimethylbenzene	0.0840	0.0050	"	0.100		84.0	70-130			
Naphthalene	0.0973	0.0038	"	0.100		97.3	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0417</i>		<i>"</i>	<i>0.0400</i>		<i>104</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0398</i>		<i>"</i>	<i>0.0400</i>		<i>99.4</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0398</i>		<i>"</i>	<i>0.0400</i>		<i>99.6</i>	<i>50-150</i>			

Matrix Spike (BHK0046-MS1)

Source: 2410558-01

Prepared: 11/01/24 Analyzed: 11/02/24

Benzene	0.0585	0.0020	mg/kg	0.100	ND	58.5	70-130			QM-05
Toluene	0.0433	0.0050	"	0.100	ND	43.3	70-130			QM-05
Ethylbenzene	0.0751	0.0050	"	0.100	ND	75.1	70-130			
m,p-Xylene	0.0173	0.010	"	0.200	ND	8.67	70-130			QM-05
o-Xylene	0.0844	0.0050	"	0.100	ND	84.4	70-130			
1,2,4-Trimethylbenzene	ND	0.0050	"	0.100	ND		70-130			QM-05
1,3,5-Trimethylbenzene	0.0758	0.0050	"	0.100	ND	75.8	70-130			
Naphthalene	0.0313	0.0038	"	0.100	ND	31.3	70-130			QM-05
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0438</i>		<i>"</i>	<i>0.0400</i>		<i>109</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0400</i>		<i>"</i>	<i>0.0400</i>		<i>100</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0392</i>		<i>"</i>	<i>0.0400</i>		<i>97.9</i>	<i>50-150</i>			

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Project: Chevron - UPRC 35-06F

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
11/11/24 10:34

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 BHK0046 - EPA 5030 Soil MS

Matrix Spike Dup (BHK0046-MSD1)	Source: 2410558-01			Prepared: 11/01/24 Analyzed: 11/02/24						
Benzene	0.0483	0.0020	mg/kg	0.100	ND	48.3	70-130	19.0	30	QM-05
Toluene	0.0308	0.0050	"	0.100	ND	30.8	70-130	33.8	30	QM-05
Ethylbenzene	0.0468	0.0050	"	0.100	ND	46.8	70-130	46.5	30	QM-05
m,p-Xylene	0.0111	0.010	"	0.200	ND	5.56	70-130	43.6	30	QM-05
o-Xylene	0.0821	0.0050	"	0.100	ND	82.1	70-130	2.70	30	
1,2,4-Trimethylbenzene	ND	0.0050	"	0.100	ND		70-130		30	QM-05
1,3,5-Trimethylbenzene	0.0753	0.0050	"	0.100	ND	75.3	70-130	0.635	30	
Naphthalene	0.0290	0.0038	"	0.100	ND	29.0	70-130	7.67	30	QM-05
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0436</i>		<i>"</i>	<i>0.0400</i>		<i>109</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0403</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0392</i>		<i>"</i>	<i>0.0400</i>		<i>98.0</i>	<i>50-150</i>			

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Project: Chevron - UPRC 35-06F

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
11/11/24 10:34

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 BHK0048 - EPA 3550A

Blank (BHK0048-BLK1)

Prepared: 11/01/24 Analyzed: 11/03/24

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	12.2		"	12.5		97.6	30-150				

LCS (BHK0048-BS1)

Prepared: 11/01/24 Analyzed: 11/03/24

C10-C28 (DRO)	555	50	mg/kg	500		111	70-130				
Surrogate: <i>o</i> -Terphenyl	12.1		"	12.5		96.8	30-150				

Matrix Spike (BHK0048-MS1)

Source: 2410558-01

Prepared: 11/01/24 Analyzed: 11/03/24

C10-C28 (DRO)	536	50	mg/kg	500	ND	107	70-130				
Surrogate: <i>o</i> -Terphenyl	8.01		"	12.5		64.1	30-150				

Matrix Spike Dup (BHK0048-MSD1)

Source: 2410558-01

Prepared: 11/01/24 Analyzed: 11/03/24

C10-C28 (DRO)	546	50	mg/kg	500	ND	109	70-130	1.78	20		
Surrogate: <i>o</i> -Terphenyl	8.11		"	12.5		64.9	30-150				

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Project: Chevron - UPRC 35-06F

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
11/11/24 10:34

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 BHJ1333 - EPA 5030 Soil MS

Blank (BHJ1333-BLK1)

Prepared & Analyzed: 10/30/24

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0240		"	0.0333		72.1	40-150			
Surrogate: Fluoranthene-d10	0.0238		"	0.0333		71.5	40-150			

LCS (BHJ1333-BS1)

Prepared & Analyzed: 10/30/24

Acenaphthene	0.0240	0.00500	mg/kg	0.0333		72.1	31-137			
Anthracene	0.0229	0.00500	"	0.0333		68.7	30-120			
Benzo (a) anthracene	0.0239	0.00500	"	0.0333		71.6	30-120			
Benzo (a) pyrene	0.0217	0.00500	"	0.0333		65.0	30-120			
Benzo (b) fluoranthene	0.0210	0.00500	"	0.0333		63.1	30-120			
Benzo (k) fluoranthene	0.0226	0.00500	"	0.0333		67.7	30-120			
Chrysene	0.0231	0.00500	"	0.0333		69.4	30-120			
Dibenz (a,h) anthracene	0.0213	0.00500	"	0.0333		63.8	30-120			
Fluoranthene	0.0235	0.00500	"	0.0333		70.6	30-120			
Fluorene	0.0234	0.00500	"	0.0333		70.3	30-120			
Indeno (1,2,3-cd) pyrene	0.0204	0.00500	"	0.0333		61.3	30-120			
Pyrene	0.0238	0.00500	"	0.0333		71.5	35-142			
1-Methylnaphthalene	0.0258	0.00500	"	0.0333		77.4	35-142			
2-Methylnaphthalene	0.0268	0.00500	"	0.0333		80.4	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0255		"	0.0333		76.5	40-150			
Surrogate: Fluoranthene-d10	0.0242		"	0.0333		72.6	40-150			

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Chevron - UPRC 35-06F

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
11/11/24 10:34

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 BHJ1333 - EPA 5030 Soil MS

Matrix Spike (BHJ1333-MS1)	Source: 2410520-03			Prepared & Analyzed: 10/30/24			QM-06			
Acenaphthene	0.0421	0.00500	mg/kg	0.0333	0.0854	NR	31-137			
Anthracene	0.0550	0.00500	"	0.0333	0.175	NR	30-120			
Benzo (a) anthracene	0.0683	0.00500	"	0.0333	0.209	NR	30-120			
Benzo (a) pyrene	0.0451	0.00500	"	0.0333	0.128	NR	30-120			
Benzo (b) fluoranthene	0.0593	0.00500	"	0.0333	0.192	NR	30-120			
Benzo (k) fluoranthene	0.0366	0.00500	"	0.0333	0.0690	NR	30-120			
Chrysene	0.0638	0.00500	"	0.0333	0.202	NR	30-120			
Dibenz (a,h) anthracene	0.0220	0.00500	"	0.0333	0.0173	14.3	30-120			
Fluoranthene	0.156	0.00500	"	0.0333	0.648	NR	30-120			
Fluorene	0.0458	0.00500	"	0.0333	0.119	NR	30-120			
Indeno (1,2,3-cd) pyrene	0.0424	0.00500	"	0.0333	0.0835	NR	30-120			
Pyrene	0.132	0.00500	"	0.0333	0.525	NR	35-142			
1-Methylnaphthalene	0.0281	0.00500	"	0.0333	0.00813	59.8	15-130			
2-Methylnaphthalene	0.0299	0.00500	"	0.0333	0.0143	46.8	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0261		"	0.0333		78.3	40-150			
Surrogate: Fluoranthene-d10	0.0220		"	0.0333		65.9	40-150			

Matrix Spike Dup (BHJ1333-MSD1)	Source: 2410520-03			Prepared & Analyzed: 10/30/24			QM-06			
Acenaphthene	0.0466	0.00500	mg/kg	0.0333	0.0854	NR	31-137	10.3	30	
Anthracene	0.0775	0.00500	"	0.0333	0.175	NR	30-120	34.0	30	
Benzo (a) anthracene	0.0961	0.00500	"	0.0333	0.209	NR	30-120	33.8	30	
Benzo (a) pyrene	0.0622	0.00500	"	0.0333	0.128	NR	30-120	31.9	30	
Benzo (b) fluoranthene	0.0843	0.00500	"	0.0333	0.192	NR	30-120	34.9	30	
Benzo (k) fluoranthene	0.0459	0.00500	"	0.0333	0.0690	NR	30-120	22.6	30	
Chrysene	0.0917	0.00500	"	0.0333	0.202	NR	30-120	35.8	30	
Dibenz (a,h) anthracene	0.0216	0.00500	"	0.0333	0.0173	13.2	30-120	1.70	30	
Fluoranthene	0.229	0.00500	"	0.0333	0.648	NR	30-120	38.0	30	
Fluorene	0.0548	0.00500	"	0.0333	0.119	NR	30-120	17.9	30	
Indeno (1,2,3-cd) pyrene	0.0518	0.00500	"	0.0333	0.0835	NR	30-120	19.9	30	
Pyrene	0.199	0.00500	"	0.0333	0.525	NR	35-142	40.4	30	
1-Methylnaphthalene	0.0264	0.00500	"	0.0333	0.00813	54.8	15-130	6.10	50	
2-Methylnaphthalene	0.0280	0.00500	"	0.0333	0.0143	40.9	15-130	6.78	50	
Surrogate: 2-Methylnaphthalene-d10	0.0245		"	0.0333		73.6	40-150			
Surrogate: Fluoranthene-d10	0.0222		"	0.0333		66.6	40-150			

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Chevron - UPRC 35-06F

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
11/11/24 10:34

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

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

Batch BHK0263 - EPA 3050B

Blank (BHK0263-BLK1)				Prepared: 11/06/24 Analyzed: 11/08/24						
Boron	ND	2.00	mg/L							
LCS (BHK0263-BS1)				Prepared: 11/06/24 Analyzed: 11/08/24						
Boron	4.90	2.00	mg/L	5.00		98.0	80-120			
Duplicate (BHK0263-DUP1)				Source: 2410548-01 Prepared: 11/06/24 Analyzed: 11/08/24						
Boron	0.239	2.00	mg/L		0.173			32.0	20	QR-01
Matrix Spike (BHK0263-MS1)				Source: 2410548-01 Prepared: 11/06/24 Analyzed: 11/08/24						
Boron	4.83	2.00	mg/L	4.98	0.173	93.6	75-125			
Matrix Spike Dup (BHK0263-MSD1)				Source: 2410548-01 Prepared: 11/06/24 Analyzed: 11/08/24						
Boron	5.01	2.00	mg/L	4.98	0.173	97.2	75-125	3.66	25	

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Chevron - UPRC 35-06F

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
11/11/24 10:34

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 BHK0414 - EPA 3050B

Blank (BHK0414-BLK1)

Prepared: 11/08/24 Analyzed: 11/09/24

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 (BHK0414-BS1)

Prepared: 11/08/24 Analyzed: 11/09/24

Arsenic	36.6	0.200	mg/kg wet	41.3	88.7	80-120
Barium	40.5	0.400	"	41.3	97.9	80-120
Cadmium	2.01	0.200	"	2.07	97.4	80-120
Copper	43.1	0.400	"	41.3	104	80-120
Lead	19.3	0.200	"	20.7	93.2	80-120
Nickel	42.4	0.400	"	41.3	103	80-120
Silver	1.99	0.0200	"	2.07	96.2	80-120
Zinc	42.7	0.400	"	41.3	103	80-120
Selenium	3.89	0.260	"	4.13	94.1	80-120

Duplicate (BHK0414-DUP1)

Source: 2410548-19

Prepared: 11/08/24 Analyzed: 11/09/24

Arsenic	1.52	0.200	mg/kg dry	1.52	0.00676	20
Barium	39.1	0.400	"	37.4	4.30	20
Cadmium	0.119	0.200	"	0.120	0.945	20
Copper	3.38	0.400	"	3.20	5.62	20
Lead	8.01	0.200	"	6.46	21.4	20
Nickel	2.69	0.400	"	2.75	1.90	20
Silver	0.0184	0.0200	"	0.0203	9.85	20
Zinc	31.4	0.400	"	26.4	17.1	20
Selenium	ND	0.260	"	ND		20

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Chevron - UPRC 35-06F

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
11/11/24 10:34

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 BHK0414 - EPA 3050B

Matrix Spike (BHK0414-MS1)

Source: 2410548-19

Prepared: 11/08/24 Analyzed: 11/09/24

Arsenic	41.3	0.200	mg/kg dry	44.4	1.52	89.6	75-125			
Barium	77.6	0.400	"	44.4	37.4	90.5	75-125			
Cadmium	2.19	0.200	"	2.22	0.120	93.3	75-125			
Copper	36.8	0.400	"	44.4	3.20	75.7	75-125			
Lead	27.6	0.200	"	22.2	6.46	95.1	75-125			
Nickel	36.2	0.400	"	44.4	2.75	75.4	75-125			
Silver	2.08	0.0200	"	2.22	0.0203	92.8	75-125			
Zinc	64.2	0.400	"	44.4	26.4	85.1	75-125			
Selenium	3.95	0.260	"	4.44	ND	88.9	75-125			

Matrix Spike Dup (BHK0414-MSD1)

Source: 2410548-19

Prepared: 11/08/24 Analyzed: 11/09/24

Arsenic	39.4	0.200	mg/kg dry	42.6	1.52	88.9	75-125	4.69	25
Barium	74.6	0.400	"	42.6	37.4	87.1	75-125	4.00	25
Cadmium	2.11	0.200	"	2.13	0.120	93.2	75-125	4.01	25
Copper	35.4	0.400	"	42.6	3.20	75.6	75-125	3.82	25
Lead	26.7	0.200	"	21.3	6.46	95.0	75-125	3.14	25
Nickel	34.9	0.400	"	42.6	2.75	75.5	75-125	3.56	25
Silver	1.96	0.0200	"	2.13	0.0203	91.0	75-125	5.92	25
Zinc	64.3	0.400	"	42.6	26.4	88.7	75-125	0.0349	25
Selenium	3.75	0.260	"	4.26	ND	88.0	75-125	5.07	25

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Chevron - UPRC 35-06F

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
11/11/24 10:34

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BHK0411 - 3060A Mod

Blank (BHK0411-BLK1)

Prepared & Analyzed: 11/08/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHK0411-BS1)

Prepared & Analyzed: 11/08/24

Chromium, Hexavalent 25.4 0.30 mg/kg wet 25.0 101 80-120

Duplicate (BHK0411-DUP1)

Source: 2410550-01

Prepared & Analyzed: 11/08/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHK0411-MS1)

Source: 2410550-01

Prepared & Analyzed: 11/08/24

Chromium, Hexavalent 27.5 0.30 mg/kg dry 27.6 ND 99.6 75-125

Matrix Spike Dup (BHK0411-MSD1)

Source: 2410550-01

Prepared & Analyzed: 11/08/24

Chromium, Hexavalent 27.5 0.30 mg/kg dry 27.6 ND 99.4 75-125 0.201 20

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Chevron - UPRC 35-06F

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
11/11/24 10:34

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 BHK0076 - General Preparation

Blank (BHK0076-BLK1)

Prepared: 11/02/24 Analyzed: 11/05/24

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

LCS (BHK0076-BS1)

Prepared: 11/02/24 Analyzed: 11/05/24

Calcium	5.56	0.0500	mg/L wet	5.00		111	70-130			
Magnesium	4.83	0.0500	"	5.00		96.7	70-130			
Sodium	4.70	0.0500	"	5.00		94.1	70-130			

Summit Scientific

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Tasman Geosciences
 6855 W. 119th Ave.
 Broomfield CO, 80020

Project: Chevron - UPRC 35-06F

Project Number: [none]
 Project Manager: AJ Engelhardt

Reported:
 11/11/24 10:34

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 BHK0188 - General Preparation

Duplicate (BHK0188-DUP1)

Source: 2410559-01

Prepared & Analyzed: 11/05/24

% Solids	91.5		%		91.2			0.333	20	
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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Chevron - UPRC 35-06F

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
11/11/24 10:34

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 BHK0077 - General Preparation

Blank (BHK0077-BLK1)

Prepared: 11/02/24 Analyzed: 11/05/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHK0077-BS1)

Prepared: 11/02/24 Analyzed: 11/05/24

Specific Conductance (EC) 1.12 0.0100 mmhos/cm 95-105

Duplicate (BHK0077-DUP1)

Source: 2410515-01

Prepared: 11/02/24 Analyzed: 11/05/24

Specific Conductance (EC) 1.90 0.0100 mmhos/cm 1.90 0.000264 20

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Chevron - UPRC 35-06F

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
11/11/24 10:34

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 BHK0078 - General Preparation

LCS (BHK0078-BS1)

Prepared: 11/02/24 Analyzed: 11/05/24

pH	9.17	pH Units	9.18	99.9	95-105
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Duplicate (BHK0078-DUP1)

Source: 2410515-01

Prepared: 11/02/24 Analyzed: 11/05/24

pH	8.18	pH Units	8.17	0.114	20
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Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Chevron - UPRC 35-06F

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
11/11/24 10:34

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-06 Due to non-homogeneity of the QC sample matrix, the MS/MSD did not provide reliable results for accuracy and precision. 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