

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

November 19, 2024

AJ Engelhardt
Tasman Geosciences
6855 W. 119th Ave.
Broomfield, CO 80020
RE: Chevron - UPRC 35-05F
Work Order #2410594

Enclosed are the results of analyses for samples received by Summit Scientific on 10/30/24 18:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Natalie Tessier For Paul Shrewsbury
President



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

Project: Chevron - UPRC 35-05F

Project Number: UWRWE-A4167-ABN

Project Manager: AJ Engelhardt

Reported:
11/19/24 10:47

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL01-02@3'	2410594-01	Soil	10/30/24 10:15	10/30/24 18:00
BKG01@0-6"	2410594-02	Soil	10/30/24 10:26	10/30/24 18:00
BKG01@3'	2410594-03	Soil	10/30/24 10:27	10/30/24 18:00
BKG01@4'	2410594-04	Soil	10/30/24 10:28	10/30/24 18:00

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

Lab ID	Page	of
2410594		1

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 35.05F	
City/State/Zip: Broomfield, CO 80020		AFE#: UWRWE-A4169-ABW	
Phone: 978-857-4408	Project Name: UPRC 35.05F	PO/Billing Codes:	
Sampler Name: Matthew Wentzell	Project Number:	Contact: 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
1	FL01.02 @ 3'	10.30.24	1015	2			X			X			X	X	X	X	X	
2	BK001 @ 0-6"	I	1026	I														
3	BK001 @ 3'	I	1027	I														
4	BK001 @ 4'	I	1028	I														
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		

Relinquished by: Date/Time: 10.30.24	Received by: Tasman Lockbox Date/Time: 10.30.24	TAT Business Days	Field DO	Notes:
		Same Day	Field EC	
Relinquished by: Tasman Lockbox Date/Time: 10.30.24 1800	Received by: Date/Time: 10.30.24 1800	1 Day	Field ORP	
		2 Days	Field pH	
Relinquished by: Date/Time:	Received by: Date/Time:	3 Days	Field Temp.	
		Standard	Field Turb.	
Temperature Upon Receipt: 6.9	Corrected Temperature: 6	IR gun #: 1	HNO3 lot #:	

S₂

Sample Receipt Checklist

S2 Work Order# 2410594

Client: Cherontasman Client Project ID: UPRC 3505F

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

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

Temp (°C) 6.9

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"/>	<u>on ICE</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

10/30/24
Date/Time



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

Project: Chevron - UPRC 35-05F
Project Number: UWRWE-A4167-ABN
Project Manager: AJ Engelhardt

Reported:
11/19/24 10:47

FL01-02@3'
2410594-01 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/30/24 10:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHK0146	11/04/24	11/05/24	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **10/30/24 10:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0416	104 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0406	101 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0394	98.5 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/30/24 10:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHK0147	11/04/24	11/05/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **10/30/24 10:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	14.6	117 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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PAH by EPA Method 8270D SIM

Date Sampled: **10/30/24 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHK0008	11/01/24	11/02/24	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: **10/30/24 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0234	70.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0231	69.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/30/24 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHK0379	11/07/24	11/08/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/30/24 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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FL01-02@3'
2410594-01 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	1.46	0.200	mg/kg dry	1	BHK0551	11/12/24	11/18/24	EPA 6020B
Barium	43.5	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	4.20	0.400	"	"	"	"	"	"
Lead	5.69	0.200	"	"	"	"	"	"
Nickel	2.82	0.400	"	"	"	"	"	"
Silver	0.0271	0.0200	"	"	"	"	"	"
Zinc	18.2	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/30/24 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0628	11/13/24	11/14/24	EPA 7196A	

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

Date Sampled: **10/30/24 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	41.7	0.0500	mg/L dry	1	BHK0444	11/08/24	11/12/24	EPA 6020B	
Magnesium	13.6	0.0500	"	"	"	"	"	"	
Sodium	27.9	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/30/24 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.959	0.00100	units	1	BHK0637	11/13/24	11/13/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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2410594-01 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/30/24 10:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	96.8			%	1	BHK0241	11/06/24	11/06/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/30/24 10:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	1.18	0.0100		mmhos/cm	1	BHK0445	11/08/24	11/11/24	EPA 120.1	

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

Date Sampled: **10/30/24 10:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	6.68			pH Units	1	BHK0446	11/08/24	11/11/24	EPA 9045D	

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Reported:
11/19/24 10:47

BKG01@0-6''
2410594-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/30/24 10:26**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHK0379	11/07/24	11/08/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/30/24 10:26**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.43	0.200	mg/kg dry	1	BHK0551	11/12/24	11/18/24	EPA 6020B	
Barium	28.5	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.47	0.400	"	"	"	"	"	"	
Lead	6.92	0.200	"	"	"	"	"	"	
Nickel	2.04	0.400	"	"	"	"	"	"	
Silver	0.0325	0.0200	"	"	"	"	"	"	
Zinc	14.2	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/30/24 10:26**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0628	11/13/24	11/14/24	EPA 7196A	

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

Date Sampled: **10/30/24 10:26**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	48.9	0.0500	mg/L dry	1	BHK0444	11/08/24	11/12/24	EPA 6020B	
Magnesium	19.5	0.0500	"	"	"	"	"	"	
Sodium	42.7	0.0500	"	"	"	"	"	"	

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Reported:
11/19/24 10:47

BKG01@0-6''
2410594-02 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/30/24 10:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.31	0.00100	units	1	BHK0637	11/13/24	11/13/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/30/24 10:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.0		%	1	BHK0241	11/06/24	11/06/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/30/24 10:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.65	0.0100	mmhos/cm	1	BHK0445	11/08/24	11/11/24	EPA 120.1	

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

Date Sampled: **10/30/24 10:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.80		pH Units	1	BHK0446	11/08/24	11/11/24	EPA 9045D	

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BKG01@3'
2410594-03 (Soil)

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Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/30/24 10:27**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHK0379	11/07/24	11/08/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/30/24 10:27**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.18	0.200	mg/kg dry	1	BHK0551	11/12/24	11/18/24	EPA 6020B	
Barium	37.8	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.50	0.400	"	"	"	"	"	"	
Lead	3.78	0.200	"	"	"	"	"	"	
Nickel	2.71	0.400	"	"	"	"	"	"	
Silver	0.0238	0.0200	"	"	"	"	"	"	
Zinc	11.2	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/30/24 10:27**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0628	11/13/24	11/14/24	EPA 7196A	

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

Date Sampled: **10/30/24 10:27**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	116	0.0500	mg/L dry	1	BHK0444	11/08/24	11/12/24	EPA 6020B	
Magnesium	21.3	0.0500	"	"	"	"	"	"	
Sodium	28.9	0.0500	"	"	"	"	"	"	

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BKG01@3'
2410594-03 (Soil)

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Calculated Analysis

Date Sampled: **10/30/24 10:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.647	0.00100	units	1	BHK0637	11/13/24	11/13/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/30/24 10:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.4		%	1	BHK0241	11/06/24	11/06/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/30/24 10:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.721	0.0100	mmhos/cm	1	BHK0445	11/08/24	11/11/24	EPA 120.1	

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

Date Sampled: **10/30/24 10:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.60		pH Units	1	BHK0446	11/08/24	11/11/24	EPA 9045D	

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Project Number: UWRWE-A4167-ABN
Project Manager: AJ Engelhardt

Reported:
11/19/24 10:47

BKG01@4'
2410594-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/30/24 10:28**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHK0379	11/07/24	11/08/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/30/24 10:28**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.10	0.200	mg/kg dry	1	BHK0551	11/12/24	11/18/24	EPA 6020B	
Barium	35.9	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.60	0.400	"	"	"	"	"	"	
Lead	3.43	0.200	"	"	"	"	"	"	
Nickel	2.45	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	11.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/30/24 10:28**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0628	11/13/24	11/14/24	EPA 7196A	

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

Date Sampled: **10/30/24 10:28**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	78.1	0.0500	mg/L dry	1	BHK0444	11/08/24	11/12/24	EPA 6020B	
Magnesium	13.8	0.0500	"	"	"	"	"	"	
Sodium	32.7	0.0500	"	"	"	"	"	"	

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

Project: Chevron - UPRC 35-05F
Project Number: UWRWE-A4167-ABN
Project Manager: AJ Engelhardt

Reported:
11/19/24 10:47

BKG01@4'
2410594-04 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/30/24 10:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.897	0.00100	units	1	BHK0637	11/13/24	11/13/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/30/24 10:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.5		%	1	BHK0241	11/06/24	11/06/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/30/24 10:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.498	0.0100	mmhos/cm	1	BHK0445	11/08/24	11/11/24	EPA 120.1	

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

Date Sampled: **10/30/24 10:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.17		pH Units	1	BHK0446	11/08/24	11/11/24	EPA 9045D	

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

Project: Chevron - UPRC 35-05F
Project Number: UWRWE-A4167-ABN
Project Manager: AJ Engelhardt

Reported:
11/19/24 10:47

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 BHK0146 - EPA 5030 Soil MS

Blank (BHK0146-BLK1)

Prepared & Analyzed: 11/04/24

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	0.0355		"	0.0400		88.6	50-150			
Surrogate: Toluene-d8	0.0394		"	0.0400		98.4	50-150			
Surrogate: 4-Bromofluorobenzene	0.0383		"	0.0400		95.8	50-150			

LCS (BHK0146-BS1)

Prepared & Analyzed: 11/04/24

Benzene	0.102	0.0020	mg/kg	0.100		102	70-130			
Toluene	0.106	0.0050	"	0.100		106	70-130			
Ethylbenzene	0.106	0.0050	"	0.100		106	70-130			
m,p-Xylene	0.214	0.010	"	0.200		107	70-130			
o-Xylene	0.104	0.0050	"	0.100		104	70-130			
1,2,4-Trimethylbenzene	0.101	0.0050	"	0.100		101	70-130			
1,3,5-Trimethylbenzene	0.104	0.0050	"	0.100		104	70-130			
Naphthalene	0.0882	0.0038	"	0.100		88.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0390		"	0.0400		97.5	50-150			
Surrogate: Toluene-d8	0.0402		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0392		"	0.0400		98.1	50-150			

Matrix Spike (BHK0146-MS1)

Source: 2410585-01

Prepared & Analyzed: 11/04/24

Benzene	0.102	0.0020	mg/kg	0.100	ND	102	70-130			
Toluene	0.100	0.0050	"	0.100	ND	100	70-130			
Ethylbenzene	0.0955	0.0050	"	0.100	ND	95.5	70-130			
m,p-Xylene	0.195	0.010	"	0.200	ND	97.4	70-130			
o-Xylene	0.0950	0.0050	"	0.100	ND	95.0	70-130			
1,2,4-Trimethylbenzene	0.0906	0.0050	"	0.100	ND	90.6	70-130			
1,3,5-Trimethylbenzene	0.0933	0.0050	"	0.100	ND	93.3	70-130			
Naphthalene	0.0839	0.0038	"	0.100	ND	83.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0415		"	0.0400		104	50-150			
Surrogate: Toluene-d8	0.0397		"	0.0400		99.2	50-150			
Surrogate: 4-Bromofluorobenzene	0.0398		"	0.0400		99.6	50-150			

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

Project: Chevron - UPRC 35-05F
Project Number: UWRWE-A4167-ABN
Project Manager: AJ Engelhardt

Reported:
11/19/24 10:47

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 BHK0146 - EPA 5030 Soil MS

Matrix Spike Dup (BHK0146-MSD1)	Source: 2410585-01			Prepared & Analyzed: 11/04/24						
Benzene	0.0944	0.0020	mg/kg	0.100	ND	94.4	70-130	7.90	30	
Toluene	0.0981	0.0050	"	0.100	ND	98.1	70-130	1.94	30	
Ethylbenzene	0.0947	0.0050	"	0.100	ND	94.7	70-130	0.820	30	
m,p-Xylene	0.195	0.010	"	0.200	ND	97.3	70-130	0.139	30	
o-Xylene	0.0952	0.0050	"	0.100	ND	95.2	70-130	0.221	30	
1,2,4-Trimethylbenzene	0.0897	0.0050	"	0.100	ND	89.7	70-130	1.03	30	
1,3,5-Trimethylbenzene	0.0922	0.0050	"	0.100	ND	92.2	70-130	1.26	30	
Naphthalene	0.0865	0.0038	"	0.100	ND	86.5	70-130	3.03	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0401</i>		<i>"</i>	<i>0.0400</i>		<i>100</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0396</i>		<i>"</i>	<i>0.0400</i>		<i>99.1</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0406</i>		<i>"</i>	<i>0.0400</i>		<i>102</i>	<i>50-150</i>			

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Project: Chevron - UPRC 35-05F
Project Number: UWRWE-A4167-ABN
Project Manager: AJ Engelhardt

Reported:
11/19/24 10:47

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 BHK0147 - EPA 3550A

Blank (BHK0147-BLK1)

Prepared: 11/04/24 Analyzed: 11/05/24

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	14.2		"	12.5		113	30-150				

LCS (BHK0147-BS1)

Prepared: 11/04/24 Analyzed: 11/05/24

C10-C28 (DRO)	431	50	mg/kg	500		86.1	70-130				
Surrogate: <i>o</i> -Terphenyl	12.9		"	12.5		103	30-150				

Matrix Spike (BHK0147-MS1)

Source: 2410585-01

Prepared: 11/04/24 Analyzed: 11/05/24

C10-C28 (DRO)	459	50	mg/kg	500	22.1	87.3	70-130				
Surrogate: <i>o</i> -Terphenyl	13.3		"	12.5		107	30-150				

Matrix Spike Dup (BHK0147-MSD1)

Source: 2410585-01

Prepared: 11/04/24 Analyzed: 11/05/24

C10-C28 (DRO)	433	50	mg/kg	500	22.1	82.2	70-130	5.79	20		
Surrogate: <i>o</i> -Terphenyl	12.1		"	12.5		96.7	30-150				

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Project: Chevron - UPRC 35-05F
Project Number: UWRWE-A4167-ABN
Project Manager: AJ Engelhardt

Reported:
11/19/24 10:47

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHK0008 - EPA 5030 Soil MS

Blank (BHK0008-BLK1)

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

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	0.0245		"	0.0333		73.5	40-150			
Surrogate: Fluoranthene-d10	0.0252		"	0.0333		75.6	40-150			

LCS (BHK0008-BS1)

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

Acenaphthene	0.0258	0.00500	mg/kg	0.0333		77.4	31-137			
Anthracene	0.0258	0.00500	"	0.0333		77.3	30-120			
Benzo (a) anthracene	0.0267	0.00500	"	0.0333		80.0	30-120			
Benzo (a) pyrene	0.0245	0.00500	"	0.0333		73.4	30-120			
Benzo (b) fluoranthene	0.0249	0.00500	"	0.0333		74.7	30-120			
Benzo (k) fluoranthene	0.0250	0.00500	"	0.0333		75.1	30-120			
Chrysene	0.0260	0.00500	"	0.0333		77.9	30-120			
Dibenz (a,h) anthracene	0.0235	0.00500	"	0.0333		70.6	30-120			
Fluoranthene	0.0262	0.00500	"	0.0333		78.5	30-120			
Fluorene	0.0258	0.00500	"	0.0333		77.3	30-120			
Indeno (1,2,3-cd) pyrene	0.0229	0.00500	"	0.0333		68.7	30-120			
Pyrene	0.0270	0.00500	"	0.0333		81.1	35-142			
1-Methylnaphthalene	0.0256	0.00500	"	0.0333		76.8	35-142			
2-Methylnaphthalene	0.0264	0.00500	"	0.0333		79.1	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0268		"	0.0333		80.5	40-150			
Surrogate: Fluoranthene-d10	0.0267		"	0.0333		80.1	40-150			

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Broomfield CO, 80020

Project: Chevron - UPRC 35-05F

Project Number: UWRWE-A4167-ABN
Project Manager: AJ Engelhardt

Reported:
11/19/24 10:47

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 BHK0008 - EPA 5030 Soil MS

Matrix Spike (BHK0008-MS1)	Source: 2410573-10			Prepared: 11/01/24 Analyzed: 11/02/24						
Acenaphthene	0.0218	0.00500	mg/kg	0.0333	ND	65.5	31-137			
Anthracene	0.0218	0.00500	"	0.0333	ND	65.5	30-120			
Benzo (a) anthracene	0.0233	0.00500	"	0.0333	ND	69.9	30-120			
Benzo (a) pyrene	0.0220	0.00500	"	0.0333	ND	66.1	30-120			
Benzo (b) fluoranthene	0.0227	0.00500	"	0.0333	ND	68.2	30-120			
Benzo (k) fluoranthene	0.0221	0.00500	"	0.0333	ND	66.4	30-120			
Chrysene	0.0227	0.00500	"	0.0333	ND	68.0	30-120			
Dibenz (a,h) anthracene	0.0183	0.00500	"	0.0333	ND	55.0	30-120			
Fluoranthene	0.0232	0.00500	"	0.0333	ND	69.5	30-120			
Fluorene	0.0226	0.00500	"	0.0333	ND	67.8	30-120			
Indeno (1,2,3-cd) pyrene	0.0183	0.00500	"	0.0333	ND	54.9	30-120			
Pyrene	0.0237	0.00500	"	0.0333	ND	71.2	35-142			
1-Methylnaphthalene	0.0199	0.00500	"	0.0333	ND	59.6	15-130			
2-Methylnaphthalene	0.0211	0.00500	"	0.0333	ND	63.3	15-130			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0214</i>		<i>"</i>	<i>0.0333</i>		<i>64.3</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0235</i>		<i>"</i>	<i>0.0333</i>		<i>70.6</i>	<i>40-150</i>			

Matrix Spike Dup (BHK0008-MSD1)	Source: 2410573-10			Prepared: 11/01/24 Analyzed: 11/02/24						
Acenaphthene	0.0212	0.00500	mg/kg	0.0333	ND	63.7	31-137	2.72	30	
Anthracene	0.0206	0.00500	"	0.0333	ND	61.8	30-120	5.74	30	
Benzo (a) anthracene	0.0222	0.00500	"	0.0333	ND	66.5	30-120	4.88	30	
Benzo (a) pyrene	0.0210	0.00500	"	0.0333	ND	63.1	30-120	4.72	30	
Benzo (b) fluoranthene	0.0218	0.00500	"	0.0333	ND	65.6	30-120	4.00	30	
Benzo (k) fluoranthene	0.0209	0.00500	"	0.0333	ND	62.6	30-120	5.89	30	
Chrysene	0.0216	0.00500	"	0.0333	ND	64.7	30-120	4.92	30	
Dibenz (a,h) anthracene	0.0177	0.00500	"	0.0333	ND	53.0	30-120	3.85	30	
Fluoranthene	0.0220	0.00500	"	0.0333	ND	66.1	30-120	4.96	30	
Fluorene	0.0220	0.00500	"	0.0333	ND	66.0	30-120	2.76	30	
Indeno (1,2,3-cd) pyrene	0.0181	0.00500	"	0.0333	ND	54.4	30-120	0.871	30	
Pyrene	0.0227	0.00500	"	0.0333	ND	68.2	35-142	4.29	30	
1-Methylnaphthalene	0.0206	0.00500	"	0.0333	ND	61.9	15-130	3.87	50	
2-Methylnaphthalene	0.0224	0.00500	"	0.0333	ND	67.1	15-130	5.77	50	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0224</i>		<i>"</i>	<i>0.0333</i>		<i>67.1</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0222</i>		<i>"</i>	<i>0.0333</i>		<i>66.5</i>	<i>40-150</i>			

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

Project: Chevron - UPRC 35-05F
Project Number: UWRWE-A4167-ABN
Project Manager: AJ Engelhardt

Reported:
11/19/24 10:47

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

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

Batch BHK0379 - EPA 3050B

Blank (BHK0379-BLK1)				Prepared: 11/07/24 Analyzed: 11/08/24						
Boron	ND	2.00	mg/L							
LCS (BHK0379-BS1)				Prepared: 11/07/24 Analyzed: 11/08/24						
Boron	4.79	2.00	mg/L	5.00		95.8	80-120			
Duplicate (BHK0379-DUP1)				Source: 2410594-01 Prepared: 11/07/24 Analyzed: 11/08/24						
Boron	0.593	2.00	mg/L		0.601			1.34	20	
Matrix Spike (BHK0379-MS1)				Source: 2410594-01 Prepared: 11/07/24 Analyzed: 11/08/24						
Boron	5.52	2.00	mg/L	5.04	0.601	97.6	75-125			
Matrix Spike Dup (BHK0379-MSD1)				Source: 2410594-01 Prepared: 11/07/24 Analyzed: 11/08/24						
Boron	5.80	2.00	mg/L	5.04	0.601	103	75-125	4.98	25	

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Broomfield CO, 80020

Project: Chevron - UPRC 35-05F
Project Number: UWRWE-A4167-ABN
Project Manager: AJ Engelhardt

Reported:
11/19/24 10:47

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 BHK0551 - EPA 3050B

Blank (BHK0551-BLK1)

Prepared: 11/12/24 Analyzed: 11/18/24

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 (BHK0551-BS1)

Prepared: 11/12/24 Analyzed: 11/18/24

Arsenic	41.8	0.200	mg/kg wet	40.0		105	80-120			
Barium	41.4	0.400	"	40.0		103	80-120			
Cadmium	2.02	0.200	"	2.00		101	80-120			
Copper	40.4	0.400	"	40.0		101	80-120			
Lead	19.8	0.200	"	20.0		99.2	80-120			
Nickel	40.8	0.400	"	40.0		102	80-120			
Silver	1.68	0.0200	"	2.00		83.8	80-120			
Zinc	41.0	0.400	"	40.0		102	80-120			
Selenium	4.32	0.260	"	4.00		108	80-120			

Duplicate (BHK0551-DUP1)

Source: 2410585-01

Prepared: 11/12/24 Analyzed: 11/18/24

Arsenic	2.45	0.200	mg/kg dry		2.08			16.4	20	
Barium	77.4	0.400	"		65.1			17.3	20	
Cadmium	0.363	0.200	"		0.304			17.7	20	
Copper	9.61	0.400	"		8.53			11.9	20	
Lead	14.5	0.200	"		10.3			34.1	20	QR-04
Nickel	3.87	0.400	"		3.38			13.6	20	
Silver	0.131	0.0200	"		0.114			14.3	20	
Zinc	31.0	0.400	"		27.3			12.7	20	
Selenium	ND	0.260	"		ND				20	

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

Project: Chevron - UPRC 35-05F
Project Number: UWRWE-A4167-ABN
Project Manager: AJ Engelhardt

Reported:
11/19/24 10:47

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 BHK0551 - EPA 3050B

Matrix Spike (BHK0551-MS1)

Source: 2410585-01

Prepared: 11/12/24 Analyzed: 11/18/24

Arsenic	45.3	0.200	mg/kg dry	41.3	2.08	105	75-125				
Barium	123	0.400	"	41.3	65.1	141	75-125				QM-05
Cadmium	2.50	0.200	"	2.07	0.304	106	75-125				
Copper	36.0	0.400	"	41.3	8.53	66.4	75-125				QM-05
Lead	33.1	0.200	"	20.7	10.3	110	75-125				
Nickel	30.5	0.400	"	41.3	3.38	65.5	75-125				QM-05
Silver	0.215	0.0200	"	2.07	0.114	4.91	75-125				QM-05
Zinc	59.1	0.400	"	41.3	27.3	77.0	75-125				
Selenium	3.69	0.260	"	4.13	ND	89.3	75-125				

Matrix Spike Dup (BHK0551-MSD1)

Source: 2410585-01

Prepared: 11/12/24 Analyzed: 11/18/24

Arsenic	47.4	0.200	mg/kg dry	42.7	2.08	106	75-125	4.48	25		
Barium	125	0.400	"	42.7	65.1	140	75-125	1.20	25		QM-05
Cadmium	2.63	0.200	"	2.13	0.304	109	75-125	5.12	25		
Copper	38.2	0.400	"	42.7	8.53	69.5	75-125	5.97	25		QM-05
Lead	34.4	0.200	"	21.3	10.3	113	75-125	3.84	25		
Nickel	31.9	0.400	"	42.7	3.38	67.0	75-125	4.75	25		QM-05
Silver	0.229	0.0200	"	2.13	0.114	5.40	75-125	6.23	25		QM-05
Zinc	61.5	0.400	"	42.7	27.3	80.1	75-125	3.90	25		
Selenium	3.88	0.260	"	4.27	ND	90.9	75-125	4.90	25		

Summit Scientific

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

Project: Chevron - UPRC 35-05F
Project Number: UWRWE-A4167-ABN
Project Manager: AJ Engelhardt

Reported:
11/19/24 10:47

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BHK0628 - 3060A Mod

Blank (BHK0628-BLK1)		Prepared: 11/13/24 Analyzed: 11/14/24								
Chromium, Hexavalent	ND	0.30	mg/kg wet							
LCS (BHK0628-BS1)		Prepared: 11/13/24 Analyzed: 11/14/24								
Chromium, Hexavalent	26.0	0.30	mg/kg wet	25.0		104	80-120			
Duplicate (BHK0628-DUP1)		Source: 2410585-01 Prepared: 11/13/24 Analyzed: 11/14/24								
Chromium, Hexavalent	ND	0.30	mg/kg dry		ND				20	
Matrix Spike (BHK0628-MS1)		Source: 2410585-01 Prepared: 11/13/24 Analyzed: 11/14/24								
Chromium, Hexavalent	27.5	0.30	mg/kg dry	26.2	ND	105	75-125			
Matrix Spike Dup (BHK0628-MSD1)		Source: 2410585-01 Prepared: 11/13/24 Analyzed: 11/14/24								
Chromium, Hexavalent	27.3	0.30	mg/kg dry	26.2	ND	104	75-125	0.574	20	

Summit Scientific

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

Project: Chevron - UPRC 35-05F

Project Number: UWRWE-A4167-ABN
Project Manager: AJ Engelhardt

Reported:
11/19/24 10:47

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

Summit Scientific

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

Batch BHK0444 - General Preparation

Blank (BHK0444-BLK1)

Prepared: 11/08/24 Analyzed: 11/12/24

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

LCS (BHK0444-BS1)

Prepared: 11/08/24 Analyzed: 11/12/24

Calcium	4.78	0.0500	mg/L wet	5.00	95.6	70-130
Magnesium	4.51	0.0500	"	5.00	90.2	70-130
Sodium	4.41	0.0500	"	5.00	88.2	70-130

Summit Scientific

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

Project: Chevron - UPRC 35-05F

Project Number: UWRWE-A4167-ABN
Project Manager: AJ Engelhardt

Reported:
11/19/24 10:47

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 BHK0241 - General Preparation

Duplicate (BHK0241-DUP1)		Source: 2410576-31		Prepared & Analyzed: 11/06/24	
% Solids	93.8	%		92.8	1.04 20

Summit Scientific

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

Project: Chevron - UPRC 35-05F
Project Number: UWRWE-A4167-ABN
Project Manager: AJ Engelhardt

Reported:
11/19/24 10:47

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 BHK0445 - General Preparation

Blank (BHK0445-BLK1)

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

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHK0445-BS1)

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

Specific Conductance (EC) 0.154 0.0100 mmhos/cm 0.150 103 95-105

Duplicate (BHK0445-DUP1)

Source: 2410594-01

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

Specific Conductance (EC) 1.18 0.0100 mmhos/cm 1.18 0.170 20

Summit Scientific

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

Project: Chevron - UPRC 35-05F

Project Number: UWRWE-A4167-ABN
Project Manager: AJ Engelhardt

Reported:
11/19/24 10:47

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 BHK0446 - General Preparation

LCS (BHK0446-BS1)

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

pH	9.40	pH Units	9.18	102	95-105
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Duplicate (BHK0446-DUP1)

Source: 2410594-01

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

pH	6.68	pH Units	6.68	0.00	20
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Summit Scientific

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

Project: Chevron - UPRC 35-05F

Project Number: UWRWE-A4167-ABN

Project Manager: AJ Engelhardt

Reported:
11/19/24 10:47

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.
- 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