

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

December 17, 2024

Andy Sagen

Tasman Geosciences

6855 W. 119th Ave.

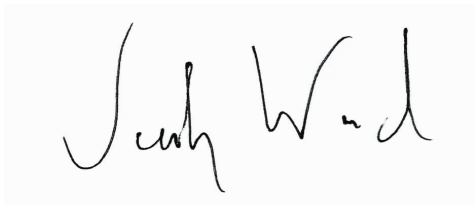
Broomfield, CO 80020

RE: Chevron - Five Rivers K09-28D

Work Order #2411292

Enclosed are the results of analyses for samples received by Summit Scientific on 11/15/24 18:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Jacob Wood For Paul Shrewsbury

President



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

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH01@2-3'	2411292-01	Soil	11/15/24 09:31	11/15/24 18:20
BH01@4-4.5'	2411292-02	Soil	11/15/24 09:33	11/15/24 18:20
BH02@2-3'	2411292-04	Soil	11/15/24 10:36	11/15/24 18:20
BH02@4-4.5'	2411292-05	Soil	11/15/24 10:38	11/15/24 18:20
BH03@2-3'	2411292-07	Soil	11/15/24 10:06	11/15/24 18:20
BH03@4-4.5'	2411292-08	Soil	11/15/24 10:08	11/15/24 18:20
BH04@2-3'	2411292-10	Soil	11/15/24 10:16	11/15/24 18:20
BH04@4-4.5'	2411292-11	Soil	11/15/24 10:18	11/15/24 18:20
BH05@2-3'	2411292-13	Soil	11/15/24 10:23	11/15/24 18:20
BH05@4-4.5'	2411292-14	Soil	11/15/24 10:25	11/15/24 18:20
BG01@2-3'	2411292-16	Soil	11/15/24 11:28	11/15/24 18:20
BG01@4-4.5'	2411292-17	Soil	11/15/24 11:30	11/15/24 18:20
BG01@9-10'	2411292-18	Soil	11/15/24 11:32	11/15/24 18:20
BG02@2-3'	2411292-19	Soil	11/15/24 11:38	11/15/24 18:20
BG02@4-4.5'	2411292-20	Soil	11/15/24 11:40	11/15/24 18:20
BG02@9-10'	2411292-21	Soil	11/15/24 11:42	11/15/24 18:20
BG03@2-3'	2411292-22	Soil	11/15/24 11:44	11/15/24 18:20
BG03@4-4.5'	2411292-23	Soil	11/15/24 11:46	11/15/24 18:20
BG03@9-10'	2411292-24	Soil	11/15/24 11:48	11/15/24 18:20
BG04@2-3'	2411292-25	Soil	11/15/24 11:52	11/15/24 18:20
BG04@4-4.5'	2411292-26	Soil	11/15/24 11:54	11/15/24 18:20
BG04@9-10'	2411292-27	Soil	11/15/24 11:58	11/15/24 18:20
BG05@2-3'	2411292-28	Soil	11/15/24 12:00	11/15/24 18:20
BG05@4-4.5'	2411292-29	Soil	11/15/24 12:02	11/15/24 18:20
BG05@9-10'	2411292-30	Soil	11/15/24 12:04	11/15/24 18:20

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

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

Summit Scientific

A handwritten signature in black ink that reads "Judy Wood".

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Send Data To:		Send Invoice To:	
Client: Chevron	Project Manager: Andy Sagen	Company: Chevron	
Address: 6855 W. 119th Ave.	E-Mail: tas-chevron-1@tasman-geo.com	Project Name/Location:	
City/State/Zip: Broomfield/CO/ 80020		AFE#:	
Phone: 303-668-5268	Project Name: Five Rivers K09-280	PO/Billing Codes:	
Sampler Name: Natalie Crozier	Project Number:	Contact: Dan Peterson	

				Preservative				Matrix				Analysis Requested								Special Instructions
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	Metals - 915	VOC - 915	TPH - 915	PAH - 915	SAR, EC, pH	Boron - HWS	HOLD	
1	BH01 @ 2-3'	11/15/24	0931	2			X			X			X	X	X	X	X	X		
2	BH01 @ 4-4.5'		0933	1									X	X	X	X	X			
3	BH01 @ 9-10'		0950																X	
4	BH02 @ 2-3'		1036																	
5	BH02 @ 4-4.5'		1038																	
6	BH02 @ 9-10'		1040																X	
7	BH03 @ 2-3'		1006																	
8	BH03 @ 4-4.5'		1008																	
9	BH03 @ 9-10'		1010																X	
10	BH04 @ 2-3'		1016																	
11	BH04 @ 4-4.5'		1018																	
12	BH04 @ 9-10'		1021																X	
13	BH05 @ 2-3'		1023																	
14	BH05 @ 4-4.5'		1025																	
15	BH05 @ 9-10'		1027																X	

Relinquished by: <u>Nat Cro</u> Date/Time: <u>11/15/24 1404</u>	Received by: <u>Tasman Lock Box</u> Date/Time: <u>11/15/24 1404</u>	TAT Business Days	Field DO	Notes:
		Same Day	Field EC	
Relinquished by: <u>Tasman Lockbox</u> Date/Time: <u>11/15/24 1815</u>	Received by: <u>[Signature]</u> Date/Time: <u>11/15/24 1820</u>	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: <u>27</u>	Corrected Temperature: _____	IR gun #: <u>2</u>	HNO3 lot #: _____	

Send Data To:		Send Invoice To:
Client: Chevron	Project Manager: Andy Sagen	Company: Chevron
Address: 6855 W. 119th Ave.	E-Mail: tas-chevron-1@tasman-geo.com	Project Name/Location:
City/State/Zip: Broomfield/CO/ 80020		AFE#:
Phone: <u>303-668-5268</u>	Project Name: <u>Five Rivers KO9-28D</u>	PO/Billing Codes:
Sampler Name: <u>Natalie Crozier</u>	Project Number:	Contact: Dan Peterson

					Preservative				Matrix				Analysis Requested								Special Instructions
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other _____	Water	Soil	Air-Canister #	Other _____	Metals - 915	VOC - 915	TPH - 915	PAH - 915	SAR, EC, pH	Boron - HWS	HOLD		SAR, EC, pH by saturated paste
1	BG01 @ 2-3'	11/15/24	1128	1			X			X			X				X	X			
2	BG01 @ 4-4.5'		1130																		
3	BG01 @ 9-10'		1132																		
4	BG02 @ 2-3'		1138																		
5	BG02 @ 4-4.5'		1140																		
6	BG02 @ 9-10'		1142																		
7	BG03 @ 2-3'		1144																		
8	BG03 @ 4-4.5'		1146																		
9	BG03 @ 9-10'		1148																		
10	BG04 @ 2-3'		1152																		
11	BG04 @ 4-4.5'		1154																		
12	BG04 @ 9-10'		1158																		
13	BG05 @ 2-3'		1200																		
14	BG05 @ 4-4.5'		1202																		
15	BG05 @ 9-10'		1204																		

Relinquished by: <u>Tasman Lock Box</u>	Date/Time: <u>11/15/24 1404</u>	Received by: <u>Tasman Lock Box</u>	Date/Time: <u>11/15/24 1404</u>	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by: <u>Tasman Lock Box</u>	Date/Time: <u>11/15/24 1815</u>	Received by: <u>[Signature]</u>	Date/Time: <u>11/15/24 1820</u>	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: <u>2.7</u>	Corrected Temperature	IR gun #: <u>2</u>	HNO3 lot #:			

S₂

2/2

S2 Work Order# 2411292

Sample Receipt Checklist

Client: Chertron/Tasman Client Project ID: Five Rivers K09-28DShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ ☐ ☐ ☐ ☐ Airbill #: _____

Matrix (Check all that apply)

Air

☐

Soil/Solid

☒

Water

☐

Other

☐

Temp (°C)

2.7

Thermometer #

2

	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"/>	on ice
If custody seals are present, are they intact? ⁽¹⁾	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input checked="" 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.

Control Form #: SRC-001

AS
Custodian Printed Name11/15/24
Date/Time



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

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

BH01@2-3'
2411292-01 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/15/24 09:31**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BHK0991	11/19/24	11/20/24	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: **11/15/24 09:31**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0374	93.4 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0398	99.5 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0386	96.4 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/15/24 09:31**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BHK0992	11/19/24	11/24/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/15/24 09:31**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	7.14	57.1 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

BH01@2-3'
2411292-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/15/24 09:31**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BHK1018	11/20/24	11/22/24	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: **11/15/24 09:31**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0218	65.4 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0226	67.9 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/15/24 09:31**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHK1264	11/25/24	11/28/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/15/24 09:31**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

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Broomfield CO, 80020

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

BH01@2-3'
2411292-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	2.26	0.200	mg/kg dry	1	BHL0407	12/10/24	12/16/24	EPA 6020B
Barium	49.0	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	5.00	0.400	"	"	"	"	"	"
Lead	5.00	0.200	"	"	"	"	"	"
Nickel	4.10	0.400	"	"	"	"	"	"
Silver	0.0527	0.0200	"	"	"	"	"	"
Zinc	21.2	0.400	"	"	"	"	"	"
Selenium	0.303	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/15/24 09:31

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0194	12/04/24	12/06/24	EPA 7196A	

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

Date Sampled: 11/15/24 09:31

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	186	0.0500	mg/L dry	1	BHL0422	12/10/24	12/14/24	EPA 6020B	
Magnesium	62.9	0.0500	"	"	"	"	"	"	
Sodium	196	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/15/24 09:31

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.17	0.00100	units	1	BHL0674	12/16/24	12/16/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 11/15/24 09:31

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

BH01@2-3'
2411292-01 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

% Solids	79.1	%	1	BHK1382	11/27/24	11/27/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/15/24 09:31**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.85	0.0100	mmhos/cm	1	BHL0424	12/10/24	12/12/24	EPA 120.1	

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

Date Sampled: **11/15/24 09:31**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.85		pH Units	1	BHL0423	12/10/24	12/12/24	EPA 9045D	

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Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
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BH01@4-4.5'
2411292-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/15/24 09:33**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHK0991	11/19/24	11/20/24	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: **11/15/24 09:33**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0387	96.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0389	97.4 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0392	98.0 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/15/24 09:33**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHK0992	11/19/24	11/24/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/15/24 09:33**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	6.44	51.5 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Chevron - Five Rivers K09-28D

Project Number: [none]
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Reported:
12/17/24 10:47

BH01@4-4.5'
2411292-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/15/24 09:33**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BHK1018	11/20/24	11/22/24	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: **11/15/24 09:33**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0255	76.4 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0260	77.9 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/15/24 09:33**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHK1264	11/25/24	11/28/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/15/24 09:33**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

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

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

BH01@4-4.5'
2411292-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.90	0.200	mg/kg dry	1	BHL0407	12/10/24	12/16/24	EPA 6020B
Barium	36.0	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	3.56	0.400	"	"	"	"	"	"
Lead	3.72	0.200	"	"	"	"	"	"
Nickel	3.10	0.400	"	"	"	"	"	"
Silver	0.0555	0.0200	"	"	"	"	"	"
Zinc	14.2	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/15/24 09:33

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0194	12/04/24	12/06/24	EPA 7196A	

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

Date Sampled: 11/15/24 09:33

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	309	0.0500	mg/L dry	1	BHL0422	12/10/24	12/14/24	EPA 6020B	
Magnesium	106	0.0500	"	"	"	"	"	"	
Sodium	280	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/15/24 09:33

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.51	0.00100	units	1	BHL0674	12/16/24	12/16/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

BH01@4-4.5'
2411292-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/15/24 09:33**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	83.5			%	1	BHK1382	11/27/24	11/27/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/15/24 09:33**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	2.86	0.0100		mmhos/cm	1	BHL0424	12/10/24	12/12/24	EPA 120.1	

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

Date Sampled: **11/15/24 09:33**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.85			pH Units	1	BHL0423	12/10/24	12/12/24	EPA 9045D	

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

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

BH02@2-3'
2411292-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/15/24 10:36**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHK0991	11/19/24	11/20/24	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: **11/15/24 10:36**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0368	92.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0403	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0390	97.6 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/15/24 10:36**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHK0992	11/19/24	11/25/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/15/24 10:36**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	6.25	50.0 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

BH02@2-3'
2411292-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/15/24 10:36**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BHK1018	11/20/24	11/22/24	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	0.00673	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/15/24 10:36**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0261	78.3 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0266	79.9 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/15/24 10:36**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHK1264	11/25/24	11/28/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/15/24 10:36**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

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

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

BH02@2-3'
2411292-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.26	0.200	mg/kg dry	1	BHL0407	12/10/24	12/16/24	EPA 6020B
Barium	47.4	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	6.26	0.400	"	"	"	"	"	"
Lead	5.32	0.200	"	"	"	"	"	"
Nickel	3.01	0.400	"	"	"	"	"	"
Silver	0.116	0.0200	"	"	"	"	"	"
Zinc	30.4	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/15/24 10:36**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0194	12/04/24	12/06/24	EPA 7196A	

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

Date Sampled: **11/15/24 10:36**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	25.6	0.0500	mg/L dry	1	BHL0422	12/10/24	12/14/24	EPA 6020B	
Magnesium	4.71	0.0500	"	"	"	"	"	"	
Sodium	3.16	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/15/24 10:36**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.151	0.00100	units	1	BHL0674	12/16/24	12/16/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

BH02@2-3'
2411292-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/15/24 10:36**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	92.3			%	1	BHK1382	11/27/24	11/27/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/15/24 10:36**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.263	0.0100		mmhos/cm	1	BHL0424	12/10/24	12/12/24	EPA 120.1	

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

Date Sampled: **11/15/24 10:36**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.02			pH Units	1	BHL0423	12/10/24	12/12/24	EPA 9045D	

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

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

BH02@4-4.5'
2411292-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/15/24 10:38**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHK0991	11/19/24	11/20/24	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: **11/15/24 10:38**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0368	92.1 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0392	98.1 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0388	97.0 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/15/24 10:38**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHK0992	11/19/24	11/25/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/15/24 10:38**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	5.83	46.6 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

BH02@4-4.5'
2411292-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/15/24 10:38**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BHK1018	11/20/24	11/22/24	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: **11/15/24 10:38**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0205	61.6 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0230	68.9 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/15/24 10:38**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHK1264	11/25/24	11/28/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/15/24 10:38**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

Summit Scientific

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

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

BH02@4-4.5'
2411292-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	0.603	0.200	mg/kg dry	1	BHL0407	12/10/24	12/16/24	EPA 6020B
Barium	21.9	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	3.05	0.400	"	"	"	"	"	"
Lead	3.50	0.200	"	"	"	"	"	"
Nickel	1.24	0.400	"	"	"	"	"	"
Silver	0.0451	0.0200	"	"	"	"	"	"
Zinc	15.0	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/15/24 10:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0194	12/04/24	12/06/24	EPA 7196A	

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

Date Sampled: **11/15/24 10:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	6.89	0.0500	mg/L dry	1	BHL0422	12/10/24	12/14/24	EPA 6020B	
Magnesium	1.26	0.0500	"	"	"	"	"	"	
Sodium	2.88	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/15/24 10:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.265	0.00100	units	1	BHL0674	12/16/24	12/16/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

BH02@4-4.5'
2411292-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/15/24 10:38**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	96.4			%	1	BHK1382	11/27/24	11/27/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/15/24 10:38**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.0920	0.0100		mmhos/cm	1	BHL0424	12/10/24	12/12/24	EPA 120.1	

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

Date Sampled: **11/15/24 10:38**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.00			pH Units	1	BHL0423	12/10/24	12/12/24	EPA 9045D	

Summit Scientific

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

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

BH03@2-3'
2411292-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/15/24 10:06**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHK0991	11/19/24	11/20/24	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: **11/15/24 10:06**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0399	99.7 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0398	99.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0394	98.5 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/15/24 10:06**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHK0992	11/19/24	11/26/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/15/24 10:06**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	4.01	32.1 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

BH03@2-3'
2411292-07 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/15/24 10:06**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BHK1018	11/20/24	11/22/24	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: **11/15/24 10:06**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0223	66.9 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0243	73.0 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/15/24 10:06**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHK1264	11/25/24	11/28/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/15/24 10:06**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

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

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

BH03@2-3'
2411292-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	3.05	0.200	mg/kg dry	1	BHL0407	12/10/24	12/16/24	EPA 6020B
Barium	82.4	0.400	"	"	"	"	"	"
Cadmium	0.267	0.200	"	"	"	"	"	"
Copper	9.04	0.400	"	"	"	"	"	"
Lead	7.99	0.200	"	"	"	"	"	"
Nickel	5.33	0.400	"	"	"	"	"	"
Silver	0.108	0.0200	"	"	"	"	"	"
Zinc	46.6	0.400	"	"	"	"	"	"
Selenium	0.325	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/15/24 10:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0194	12/04/24	12/06/24	EPA 7196A	

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

Date Sampled: **11/15/24 10:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	47.7	0.0500	mg/L dry	1	BHL0422	12/10/24	12/14/24	EPA 6020B	
Magnesium	15.2	0.0500	"	"	"	"	"	"	
Sodium	52.5	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/15/24 10:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.69	0.00100	units	1	BHL0674	12/16/24	12/16/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/15/24 10:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

BH03@2-3'
2411292-07 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	75.9	%	1	BHK1382	11/27/24	11/27/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/15/24 10:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.790	0.0100	mmhos/cm	1	BHL0424	12/10/24	12/12/24	EPA 120.1	

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

Date Sampled: **11/15/24 10:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.87		pH Units	1	BHL0423	12/10/24	12/12/24	EPA 9045D	

Summit Scientific

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

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

BH03@4-4.5'
2411292-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/15/24 10:08**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHK0991	11/19/24	11/20/24	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: **11/15/24 10:08**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0407	102 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0394	98.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0387	96.8 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/15/24 10:08**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHK0992	11/19/24	11/25/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/15/24 10:08**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	5.88	47.0 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

BH03@4-4.5'
2411292-08 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/15/24 10:08**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BHK1018	11/20/24	11/22/24	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	0.00608	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	0.00822	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/15/24 10:08**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0241	72.2 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0249	74.8 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/15/24 10:08**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHK1264	11/25/24	11/28/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/15/24 10:08**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

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

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

BH03@4-4.5'
2411292-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	2.29	0.200	mg/kg dry	1	BHL0407	12/10/24	12/16/24	EPA 6020B
Barium	79.4	0.400	"	"	"	"	"	"
Cadmium	0.404	0.200	"	"	"	"	"	"
Copper	8.86	0.400	"	"	"	"	"	"
Lead	13.8	0.200	"	"	"	"	"	"
Nickel	3.02	0.400	"	"	"	"	"	"
Silver	0.178	0.0200	"	"	"	"	"	"
Zinc	36.9	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/15/24 10:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0194	12/04/24	12/06/24	EPA 7196A	

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

Date Sampled: **11/15/24 10:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	14.5	0.0500	mg/L dry	1	BHL0422	12/10/24	12/14/24	EPA 6020B	
Magnesium	3.06	0.0500	"	"	"	"	"	"	
Sodium	14.9	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/15/24 10:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.928	0.00100	units	1	BHL0674	12/16/24	12/16/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/15/24 10:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

BH03@4-4.5'
2411292-08 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	83.6	%	1	BHK1382	11/27/24	11/27/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/15/24 10:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.449	0.0100	mmhos/cm	1	BHL0424	12/10/24	12/12/24	EPA 120.1	

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

Date Sampled: **11/15/24 10:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.57		pH Units	1	BHL0423	12/10/24	12/12/24	EPA 9045D	

Summit Scientific

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

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

BH04@2-3'
2411292-10 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/15/24 10:16**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHK0991	11/19/24	11/20/24	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: **11/15/24 10:16**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0416	104 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0401	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0406	102 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/15/24 10:16**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHK0992	11/19/24	11/25/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/15/24 10:16**

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

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

BH04@2-3'
2411292-10 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/15/24 10:16**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BHK1018	11/20/24	11/22/24	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: **11/15/24 10:16**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0224	67.3 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0226	67.8 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/15/24 10:16**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHK1264	11/25/24	11/28/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/15/24 10:16**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

Summit Scientific

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

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

BH04@2-3'
2411292-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	2.34	0.200	mg/kg dry	1	BHL0407	12/10/24	12/16/24	EPA 6020B
Barium	65.8	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	5.68	0.400	"	"	"	"	"	"
Lead	5.87	0.200	"	"	"	"	"	"
Nickel	5.23	0.400	"	"	"	"	"	"
Silver	0.0339	0.0200	"	"	"	"	"	"
Zinc	24.0	0.400	"	"	"	"	"	"
Selenium	0.438	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/15/24 10:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0194	12/04/24	12/06/24	EPA 7196A	

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

Date Sampled: **11/15/24 10:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	136	0.0500	mg/L dry	1	BHL0422	12/10/24	12/14/24	EPA 6020B	
Magnesium	52.3	0.0500	"	"	"	"	"	"	
Sodium	206	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/15/24 10:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.81	0.00100	units	1	BHL0674	12/16/24	12/16/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/15/24 10:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

BH04@2-3'
2411292-10 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	82.6	%	1	BHK1382	11/27/24	11/27/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/15/24 10:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.80	0.0100	mmhos/cm	1	BHL0424	12/10/24	12/12/24	EPA 120.1	

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

Date Sampled: **11/15/24 10:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.93		pH Units	1	BHL0423	12/10/24	12/12/24	EPA 9045D	

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

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

BH04@4-4.5'
2411292-11 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/15/24 10:18**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHK0991	11/19/24	11/20/24	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: **11/15/24 10:18**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0424	106 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0394	98.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0410	102 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/15/24 10:18**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHK0992	11/19/24	11/25/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/15/24 10:18**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	6.58	52.6 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

BH04@4-4.5'
2411292-11 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/15/24 10:18**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BHK1018	11/20/24	11/22/24	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: **11/15/24 10:18**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0228	68.5 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0228	68.4 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/15/24 10:18**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHK1264	11/25/24	11/28/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/15/24 10:18**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

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Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

BH04@4-4.5'
2411292-11 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.69	0.200	mg/kg dry	1	BHL0407	12/10/24	12/16/24	EPA 6020B
Barium	41.7	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	4.03	0.400	"	"	"	"	"	"
Lead	4.19	0.200	"	"	"	"	"	"
Nickel	3.66	0.400	"	"	"	"	"	"
Silver	0.0236	0.0200	"	"	"	"	"	"
Zinc	17.1	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/15/24 10:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0194	12/04/24	12/06/24	EPA 7196A	

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

Date Sampled: **11/15/24 10:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	42.2	0.0500	mg/L dry	1	BHL0422	12/10/24	12/14/24	EPA 6020B	
Magnesium	16.2	0.0500	"	"	"	"	"	"	
Sodium	147	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/15/24 10:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.88	0.00100	units	1	BHL0674	12/16/24	12/16/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

BH04@4-4.5'
2411292-11 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/15/24 10:18**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	88.7			%	1	BHK1382	11/27/24	11/27/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/15/24 10:18**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	1.38	0.0100		mmhos/cm	1	BHL0424	12/10/24	12/12/24	EPA 120.1	

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

Date Sampled: **11/15/24 10:18**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.10			pH Units	1	BHL0423	12/10/24	12/12/24	EPA 9045D	

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Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

BH05@2-3'
2411292-13 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/15/24 10:23**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHK0991	11/19/24	11/20/24	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: **11/15/24 10:23**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0397	99.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0387	96.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0401	100 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/15/24 10:23**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHK0992	11/19/24	11/25/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/15/24 10:23**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	6.11	48.8 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Tasman Geosciences
6855 W. 119th Ave.
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Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

BH05@2-3'
2411292-13 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/15/24 10:23**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BHK1018	11/20/24	11/22/24	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: **11/15/24 10:23**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0208	62.5 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0208	62.5 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/15/24 10:23**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHL0037	12/02/24	12/03/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/15/24 10:23**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

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

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

BH05@2-3'
2411292-13 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.92	0.200	mg/kg dry	1	BHL0407	12/10/24	12/16/24	EPA 6020B
Barium	81.1	0.400	"	"	"	"	"	"
Cadmium	0.257	0.200	"	"	"	"	"	"
Copper	6.69	0.400	"	"	"	"	"	"
Lead	10.6	0.200	"	"	"	"	"	"
Nickel	3.95	0.400	"	"	"	"	"	"
Silver	0.0763	0.0200	"	"	"	"	"	"
Zinc	25.4	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/15/24 10:23

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0194	12/04/24	12/06/24	EPA 7196A	

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

Date Sampled: 11/15/24 10:23

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	14.8	0.0500	mg/L dry	1	BHL0422	12/10/24	12/14/24	EPA 6020B	
Magnesium	3.97	0.0500	"	"	"	"	"	"	
Sodium	8.28	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/15/24 10:23

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.494	0.00100	units	1	BHL0674	12/16/24	12/16/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 11/15/24 10:23

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

BH05@2-3'
2411292-13 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	88.3	%	1	BHK1382	11/27/24	11/27/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/15/24 10:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.262	0.0100	mmhos/cm	1	BHL0424	12/10/24	12/12/24	EPA 120.1	

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

Date Sampled: **11/15/24 10:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.31		pH Units	1	BHL0423	12/10/24	12/12/24	EPA 9045D	

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

BH05@4-4.5'
2411292-14 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/15/24 10:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHK0991	11/19/24	11/20/24	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: **11/15/24 10:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0422	105 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0403	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0395	98.8 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/15/24 10:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHK0992	11/19/24	11/25/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/15/24 10:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	8.37	67.0 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

BH05@4-4.5'
2411292-14 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/15/24 10:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BHK1018	11/20/24	11/22/24	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: **11/15/24 10:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0231	69.4 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0237	71.0 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/15/24 10:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHL0037	12/02/24	12/03/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/15/24 10:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

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

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

BH05@4-4.5'
2411292-14 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	0.433	0.200	mg/kg dry	1	BHL0407	12/10/24	12/16/24	EPA 6020B
Barium	7.89	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	0.781	0.400	"	"	"	"	"	"
Lead	1.35	0.200	"	"	"	"	"	"
Nickel	0.746	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	4.30	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/15/24 10:25

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0194	12/04/24	12/06/24	EPA 7196A	

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

Date Sampled: 11/15/24 10:25

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	7.28	0.0500	mg/L dry	1	BHL0422	12/10/24	12/14/24	EPA 6020B	
Magnesium	1.86	0.0500	"	"	"	"	"	"	
Sodium	10.1	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/15/24 10:25

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.865	0.00100	units	1	BHL0674	12/16/24	12/16/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

BH05@4-4.5'
2411292-14 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/15/24 10:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	81.4			%	1	BHK1382	11/27/24	11/27/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/15/24 10:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.166	0.0100		mmhos/cm	1	BHL0424	12/10/24	12/12/24	EPA 120.1	

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

Date Sampled: **11/15/24 10:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.18			pH Units	1	BHL0423	12/10/24	12/12/24	EPA 9045D	

Summit Scientific

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

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

BG01@2-3'
2411292-16 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/15/24 11:28**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHL0037	12/02/24	12/03/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/15/24 11:28**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	1.06	0.200	mg/kg dry	1	BHL0407	12/10/24	12/16/24	EPA 6020B	
Barium	59.8	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	6.58	0.400	"	"	"	"	"	"	
Lead	5.11	0.200	"	"	"	"	"	"	
Nickel	4.43	0.400	"	"	"	"	"	"	
Silver	0.0271	0.0200	"	"	"	"	"	"	
Zinc	32.8	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/15/24 11:28**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0194	12/04/24	12/06/24	EPA 7196A	

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

Date Sampled: **11/15/24 11:28**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	28.0	0.0500	mg/L dry	1	BHL0422	12/10/24	12/14/24	EPA 6020B	
Magnesium	3.34	0.0500	"	"	"	"	"	"	
Sodium	8.38	0.0500	"	"	"	"	"	"	

Summit Scientific

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

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

BG01@2-3'
2411292-16 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/15/24 11:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.399	0.00100	units	1	BHL0674	12/16/24	12/16/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/15/24 11:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.4		%	1	BHK1382	11/27/24	11/27/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/15/24 11:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.63	0.0100	mmhos/cm	1	BHL0424	12/10/24	12/12/24	EPA 120.1	

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

Date Sampled: **11/15/24 11:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.92		pH Units	1	BHL0423	12/10/24	12/12/24	EPA 9045D	

Summit Scientific

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

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

BG01@4-4.5'
2411292-17 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/15/24 11:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHL0037	12/02/24	12/03/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/15/24 11:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	0.479	0.200	mg/kg dry	1	BHL0407	12/10/24	12/16/24	EPA 6020B	
Barium	10.3	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.76	0.400	"	"	"	"	"	"	
Lead	2.49	0.200	"	"	"	"	"	"	
Nickel	0.951	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	8.59	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/15/24 11:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0194	12/04/24	12/06/24	EPA 7196A	

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

Date Sampled: **11/15/24 11:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	11.8	0.0500	mg/L dry	1	BHL0422	12/10/24	12/14/24	EPA 6020B	
Magnesium	2.68	0.0500	"	"	"	"	"	"	
Sodium	3.50	0.0500	"	"	"	"	"	"	

Summit Scientific

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

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

BG01@4-4.5'
2411292-17 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/15/24 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.239	0.00100	units	1	BHL0674	12/16/24	12/16/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/15/24 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.8		%	1	BHK1382	11/27/24	11/27/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/15/24 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.196	0.0100	mmhos/cm	1	BHL0424	12/10/24	12/12/24	EPA 120.1	

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

Date Sampled: **11/15/24 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.90		pH Units	1	BHL0423	12/10/24	12/12/24	EPA 9045D	

Summit Scientific

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

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

BG01@9-10'
2411292-18 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/15/24 11:32**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHL0037	12/02/24	12/03/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/15/24 11:32**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	0.355	0.200	mg/kg dry	1	BHL0407	12/10/24	12/16/24	EPA 6020B	
Barium	6.46	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	0.687	0.400	"	"	"	"	"	"	
Lead	1.42	0.200	"	"	"	"	"	"	
Nickel	0.621	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	3.36	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/15/24 11:32**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0194	12/04/24	12/06/24	EPA 7196A	

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

Date Sampled: **11/15/24 11:32**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	10.3	0.0500	mg/L dry	1	BHL0422	12/10/24	12/14/24	EPA 6020B	
Magnesium	2.74	0.0500	"	"	"	"	"	"	
Sodium	14.8	0.0500	"	"	"	"	"	"	

Summit Scientific

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

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

BG01@9-10'
2411292-18 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/15/24 11:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.06	0.00100	units	1	BHL0674	12/16/24	12/16/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/15/24 11:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.3		%	1	BHK1382	11/27/24	11/27/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/15/24 11:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.200	0.0100	mmhos/cm	1	BHL0424	12/10/24	12/12/24	EPA 120.1	

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

Date Sampled: **11/15/24 11:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.78		pH Units	1	BHL0423	12/10/24	12/12/24	EPA 9045D	

Summit Scientific

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

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

BG02@2-3'
2411292-19 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/15/24 11:38**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHL0037	12/02/24	12/03/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/15/24 11:38**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	0.327	0.200	mg/kg dry	1	BHL0407	12/10/24	12/16/24	EPA 6020B	
Barium	11.6	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.15	0.400	"	"	"	"	"	"	
Lead	1.03	0.200	"	"	"	"	"	"	
Nickel	0.768	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	7.79	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/15/24 11:38**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0194	12/04/24	12/06/24	EPA 7196A	

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

Date Sampled: **11/15/24 11:38**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	9.03	0.0500	mg/L dry	1	BHL0422	12/10/24	12/14/24	EPA 6020B	
Magnesium	1.27	0.0500	"	"	"	"	"	"	
Sodium	5.63	0.0500	"	"	"	"	"	"	

Summit Scientific

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

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

BG02@2-3'
2411292-19 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/15/24 11:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.465	0.00100	units	1	BHL0674	12/16/24	12/16/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/15/24 11:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.4		%	1	BHK1382	11/27/24	11/27/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/15/24 11:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.322	0.0100	mmhos/cm	1	BHL0424	12/10/24	12/12/24	EPA 120.1	

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

Date Sampled: **11/15/24 11:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.22		pH Units	1	BHL0423	12/10/24	12/12/24	EPA 9045D	

Summit Scientific

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

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

BG02@4-4.5'
2411292-20 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/15/24 11:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHL0037	12/02/24	12/03/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/15/24 11:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	0.365	0.200	mg/kg dry	1	BHL0407	12/10/24	12/16/24	EPA 6020B	
Barium	8.08	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	0.503	0.400	"	"	"	"	"	"	
Lead	0.729	0.200	"	"	"	"	"	"	
Nickel	0.428	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	2.81	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/15/24 11:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0194	12/04/24	12/06/24	EPA 7196A	

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

Date Sampled: **11/15/24 11:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	9.04	0.0500	mg/L dry	1	BHL0422	12/10/24	12/14/24	EPA 6020B	
Magnesium	1.75	0.0500	"	"	"	"	"	"	
Sodium	10.2	0.0500	"	"	"	"	"	"	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

BG02@4-4.5'
2411292-20 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/15/24 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.813	0.00100	units	1	BHL0674	12/16/24	12/16/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/15/24 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.2		%	1	BHL0027	12/02/24	12/03/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/15/24 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.231	0.0100	mmhos/cm	1	BHL0424	12/10/24	12/12/24	EPA 120.1	

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

Date Sampled: **11/15/24 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.60		pH Units	1	BHL0423	12/10/24	12/12/24	EPA 9045D	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

BG02@9-10'
2411292-21 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/15/24 11:42**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHL0037	12/02/24	12/03/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/15/24 11:42**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	0.215	0.200		mg/kg dry	1	BHL0407	12/10/24	12/16/24	EPA 6020B	
Barium	5.55	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
Copper	1.10	0.400		"	"	"	"	"	"	
Lead	0.882	0.200		"	"	"	"	"	"	
Nickel	0.839	0.400		"	"	"	"	"	"	
Silver	ND	0.0200		"	"	"	"	"	"	
Zinc	4.13	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/15/24 11:42**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHL0194	12/04/24	12/06/24	EPA 7196A	

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

Date Sampled: **11/15/24 11:42**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	20.4	0.0500		mg/L dry	1	BHL0422	12/10/24	12/14/24	EPA 6020B	
Magnesium	4.86	0.0500		"	"	"	"	"	"	
Sodium	23.9	0.0500		"	"	"	"	"	"	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

BG02@9-10'
2411292-21 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/15/24 11:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.23	0.00100	units	1	BHL0674	12/16/24	12/16/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/15/24 11:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.0		%	1	BHL0027	12/02/24	12/03/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/15/24 11:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.332	0.0100	mmhos/cm	1	BHL0424	12/10/24	12/12/24	EPA 120.1	

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

Date Sampled: **11/15/24 11:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.92		pH Units	1	BHL0423	12/10/24	12/12/24	EPA 9045D	

Summit Scientific

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

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

BG03@2-3'
2411292-22 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/15/24 11:44**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHL0037	12/02/24	12/03/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/15/24 11:44**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	0.619	0.200	mg/kg dry	1	BHL0407	12/10/24	12/16/24	EPA 6020B	
Barium	19.9	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.34	0.400	"	"	"	"	"	"	
Lead	2.04	0.200	"	"	"	"	"	"	
Nickel	1.30	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	14.0	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/15/24 11:44**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0194	12/04/24	12/06/24	EPA 7196A	

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

Date Sampled: **11/15/24 11:44**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	40.2	0.0500	mg/L dry	1	BHL0422	12/10/24	12/14/24	EPA 6020B	
Magnesium	7.13	0.0500	"	"	"	"	"	"	
Sodium	31.5	0.0500	"	"	"	"	"	"	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

BG03@2-3'
2411292-22 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/15/24 11:44**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.20	0.00100	units	1	BHL0674	12/16/24	12/16/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/15/24 11:44**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.9		%	1	BHL0027	12/02/24	12/03/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/15/24 11:44**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.22	0.0100	mmhos/cm	1	BHL0424	12/10/24	12/12/24	EPA 120.1	

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

Date Sampled: **11/15/24 11:44**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.92		pH Units	1	BHL0423	12/10/24	12/12/24	EPA 9045D	

Summit Scientific

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

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

BG03@4-4.5'
2411292-23 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/15/24 11:46**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHL0037	12/02/24	12/03/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/15/24 11:46**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	0.479	0.200		mg/kg dry	1	BHL0407	12/10/24	12/16/24	EPA 6020B	
Barium	6.32	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
Copper	1.04	0.400		"	"	"	"	"	"	
Lead	1.58	0.200		"	"	"	"	"	"	
Nickel	1.11	0.400		"	"	"	"	"	"	
Silver	ND	0.0200		"	"	"	"	"	"	
Zinc	5.76	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/15/24 11:46**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHL0194	12/04/24	12/06/24	EPA 7196A	

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

Date Sampled: **11/15/24 11:46**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	9.00	0.0500		mg/L dry	1	BHL0422	12/10/24	12/14/24	EPA 6020B	
Magnesium	1.92	0.0500		"	"	"	"	"	"	
Sodium	14.9	0.0500		"	"	"	"	"	"	

Summit Scientific

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

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

BG03@4-4.5'
2411292-23 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/15/24 11:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.18	0.00100	units	1	BHL0674	12/16/24	12/16/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/15/24 11:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.0		%	1	BHL0027	12/02/24	12/03/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/15/24 11:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.259	0.0100	mmhos/cm	1	BHL0424	12/10/24	12/12/24	EPA 120.1	

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

Date Sampled: **11/15/24 11:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.88		pH Units	1	BHL0423	12/10/24	12/12/24	EPA 9045D	

Summit Scientific

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

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

BG03@9-10'
2411292-24 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/15/24 11:48**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHL0038	12/02/24	12/03/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/15/24 11:48**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	0.834	0.200	mg/kg dry	1	BHL0407	12/10/24	12/16/24	EPA 6020B	
Barium	6.03	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.05	0.400	"	"	"	"	"	"	
Lead	1.41	0.200	"	"	"	"	"	"	
Nickel	0.796	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	3.55	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/15/24 11:48**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0237	12/05/24	12/05/24	EPA 7196A	

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

Date Sampled: **11/15/24 11:48**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	10.8	0.0500	mg/L dry	1	BHL0422	12/10/24	12/14/24	EPA 6020B	
Magnesium	2.43	0.0500	"	"	"	"	"	"	
Sodium	16.8	0.0500	"	"	"	"	"	"	

Summit Scientific

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

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

BG03@9-10'
2411292-24 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/15/24 11:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.20	0.00100	units	1	BHL0674	12/16/24	12/16/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/15/24 11:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.3		%	1	BHL0027	12/02/24	12/03/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/15/24 11:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.215	0.0100	mmhos/cm	1	BHL0424	12/10/24	12/12/24	EPA 120.1	

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

Date Sampled: **11/15/24 11:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.82		pH Units	1	BHL0423	12/10/24	12/12/24	EPA 9045D	

Summit Scientific

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

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

BG04@2-3'
2411292-25 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/15/24 11:52**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHL0038	12/02/24	12/03/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/15/24 11:52**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	0.262	0.200		mg/kg dry	1	BHL0408	12/10/24	12/11/24	EPA 6020B	
Barium	16.5	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
Copper	ND	0.400		"	"	"	"	"	"	
Lead	1.71	0.200		"	"	"	"	"	"	
Nickel	ND	0.400		"	"	"	"	"	"	
Silver	ND	0.0200		"	"	"	"	"	"	
Zinc	4.47	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/15/24 11:52**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHL0237	12/05/24	12/05/24	EPA 7196A	

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

Date Sampled: **11/15/24 11:52**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	36.2	0.0500		mg/L dry	1	BHL0422	12/10/24	12/14/24	EPA 6020B	
Magnesium	4.32	0.0500		"	"	"	"	"	"	
Sodium	16.5	0.0500		"	"	"	"	"	"	

Summit Scientific

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

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

BG04@2-3'
2411292-25 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/15/24 11:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.690	0.00100	units	1	BHL0674	12/16/24	12/16/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/15/24 11:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.8		%	1	BHL0027	12/02/24	12/03/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/15/24 11:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.564	0.0100	mmhos/cm	1	BHL0424	12/10/24	12/12/24	EPA 120.1	

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

Date Sampled: **11/15/24 11:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.72		pH Units	1	BHL0423	12/10/24	12/12/24	EPA 9045D	

Summit Scientific

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

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

BG04@4-4.5'
2411292-26 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/15/24 11:54**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHL0038	12/02/24	12/03/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/15/24 11:54**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	0.285	0.200		mg/kg dry	1	BHL0408	12/10/24	12/11/24	EPA 6020B	
Barium	15.1	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
Copper	ND	0.400		"	"	"	"	"	"	
Lead	1.06	0.200		"	"	"	"	"	"	
Nickel	ND	0.400		"	"	"	"	"	"	
Silver	ND	0.0200		"	"	"	"	"	"	
Zinc	1.52	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/15/24 11:54**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHL0237	12/05/24	12/05/24	EPA 7196A	

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

Date Sampled: **11/15/24 11:54**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	8.82	0.0500		mg/L dry	1	BHL0422	12/10/24	12/14/24	EPA 6020B	
Magnesium	1.95	0.0500		"	"	"	"	"	"	
Sodium	18.9	0.0500		"	"	"	"	"	"	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

BG04@4-4.5'
2411292-26 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/15/24 11:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.50	0.00100	units	1	BHL0674	12/16/24	12/16/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/15/24 11:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.3		%	1	BHL0027	12/02/24	12/03/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/15/24 11:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.230	0.0100	mmhos/cm	1	BHL0424	12/10/24	12/12/24	EPA 120.1	

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

Date Sampled: **11/15/24 11:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.60		pH Units	1	BHL0423	12/10/24	12/12/24	EPA 9045D	

Summit Scientific

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

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

BG04@9-10'
2411292-27 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/15/24 11:58**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHL0038	12/02/24	12/03/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/15/24 11:58**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	0.420	0.200		mg/kg dry	1	BHL0408	12/10/24	12/12/24	EPA 6020B	
Barium	4.64	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
Copper	ND	0.400		"	"	"	"	"	"	
Lead	0.962	0.200		"	"	"	"	"	"	
Nickel	ND	0.400		"	"	"	"	"	"	
Silver	ND	0.0200		"	"	"	"	"	"	
Zinc	2.02	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/15/24 11:58**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHL0237	12/05/24	12/05/24	EPA 7196A	

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

Date Sampled: **11/15/24 11:58**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	9.32	0.0500		mg/L dry	1	BHL0422	12/10/24	12/14/24	EPA 6020B	
Magnesium	2.33	0.0500		"	"	"	"	"	"	
Sodium	21.8	0.0500		"	"	"	"	"	"	

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

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

BG04@9-10'
2411292-27 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/15/24 11:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.65	0.00100	units	1	BHL0674	12/16/24	12/16/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/15/24 11:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.1		%	1	BHL0027	12/02/24	12/03/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/15/24 11:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.239	0.0100	mmhos/cm	1	BHL0424	12/10/24	12/12/24	EPA 120.1	

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

Date Sampled: **11/15/24 11:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.90		pH Units	1	BHL0423	12/10/24	12/12/24	EPA 9045D	

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

BG05@2-3'
2411292-28 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/15/24 12:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHL0038	12/02/24	12/03/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/15/24 12:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	0.653	0.200	mg/kg dry	1	BHL0408	12/10/24	12/12/24	EPA 6020B	
Barium	35.8	0.400	"	"	"	"	"	"	
Cadmium	0.230	0.200	"	"	"	"	"	"	
Copper	2.93	0.400	"	"	"	"	"	"	
Lead	6.52	0.200	"	"	"	"	"	"	
Nickel	0.485	0.400	"	"	"	"	"	"	
Silver	0.0512	0.0200	"	"	"	"	"	"	
Zinc	15.6	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/15/24 12:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHL0237	12/05/24	12/05/24	EPA 7196A	

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

Date Sampled: **11/15/24 12:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	28.8	0.0500	mg/L dry	1	BHL0422	12/10/24	12/14/24	EPA 6020B	
Magnesium	48.8	0.0500	"	"	"	"	"	"	
Sodium	166	0.0500	"	"	"	"	"	"	

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

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

BG05@2-3'
2411292-28 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/15/24 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.37	0.00100	units	1	BHL0674	12/16/24	12/16/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/15/24 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.9		%	1	BHL0027	12/02/24	12/03/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/15/24 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.05	0.0100	mmhos/cm	1	BHL0424	12/10/24	12/12/24	EPA 120.1	

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

Date Sampled: **11/15/24 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.10		pH Units	1	BHL0423	12/10/24	12/12/24	EPA 9045D	

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Broomfield CO, 80020

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

BG05@4-4.5'
2411292-29 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/15/24 12:02**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHL0038	12/02/24	12/03/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/15/24 12:02**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	0.374	0.200		mg/kg dry	1	BHL0408	12/10/24	12/12/24	EPA 6020B	
Barium	17.4	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
Copper	0.453	0.400		"	"	"	"	"	"	
Lead	1.83	0.200		"	"	"	"	"	"	
Nickel	ND	0.400		"	"	"	"	"	"	
Silver	ND	0.0200		"	"	"	"	"	"	
Zinc	4.17	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/15/24 12:02**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHL0237	12/05/24	12/05/24	EPA 7196A	

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

Date Sampled: **11/15/24 12:02**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	12.6	0.0500		mg/L dry	1	BHL0422	12/10/24	12/14/24	EPA 6020B	
Magnesium	3.54	0.0500		"	"	"	"	"	"	
Sodium	34.3	0.0500		"	"	"	"	"	"	

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

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

BG05@4-4.5'
2411292-29 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/15/24 12:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.20	0.00100	units	1	BHL0674	12/16/24	12/16/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/15/24 12:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	78.4		%	1	BHL0027	12/02/24	12/03/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/15/24 12:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.349	0.0100	mmhos/cm	1	BHL0424	12/10/24	12/12/24	EPA 120.1	

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

Date Sampled: **11/15/24 12:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.67		pH Units	1	BHL0423	12/10/24	12/12/24	EPA 9045D	

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

BG05@9-10'
2411292-30 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/15/24 12:04**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHL0038	12/02/24	12/03/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/15/24 12:04**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	0.257	0.200		mg/kg dry	1	BHL0408	12/10/24	12/12/24	EPA 6020B	
Barium	8.18	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
Copper	ND	0.400		"	"	"	"	"	"	
Lead	1.03	0.200		"	"	"	"	"	"	
Nickel	ND	0.400		"	"	"	"	"	"	
Silver	ND	0.0200		"	"	"	"	"	"	
Zinc	1.33	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/15/24 12:04**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHL0237	12/05/24	12/05/24	EPA 7196A	

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

Date Sampled: **11/15/24 12:04**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	51.4	0.0500		mg/L dry	1	BHL0422	12/10/24	12/14/24	EPA 6020B	
Magnesium	10.7	0.0500		"	"	"	"	"	"	
Sodium	23.0	0.0500		"	"	"	"	"	"	

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

BG05@9-10'
2411292-30 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/15/24 12:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.762	0.00100	units	1	BHL0674	12/16/24	12/16/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/15/24 12:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.1		%	1	BHL0027	12/02/24	12/03/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/15/24 12:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.523	0.0100	mmhos/cm	1	BHL0424	12/10/24	12/12/24	EPA 120.1	

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

Date Sampled: **11/15/24 12:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	5.28		pH Units	1	BHL0423	12/10/24	12/12/24	EPA 9045D	

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Broomfield CO, 80020

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BHK0991 - EPA 5030 Soil MS

Blank (BHK0991-BLK1)

Prepared & Analyzed: 11/19/24

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	0.0370		"	0.0400		92.6	50-150			
Surrogate: Toluene-d8	0.0390		"	0.0400		97.4	50-150			
Surrogate: 4-Bromofluorobenzene	0.0415		"	0.0400		104	50-150			

LCS (BHK0991-BS1)

Prepared & Analyzed: 11/19/24

Benzene	0.107	0.0020	mg/kg	0.100		107	70-130			
Toluene	0.108	0.0050	"	0.100		108	70-130			
Ethylbenzene	0.108	0.0050	"	0.100		108	70-130			
m,p-Xylene	0.219	0.010	"	0.200		109	70-130			
o-Xylene	0.109	0.0050	"	0.100		109	70-130			
1,2,4-Trimethylbenzene	0.110	0.0050	"	0.100		110	70-130			
1,3,5-Trimethylbenzene	0.111	0.0050	"	0.100		111	70-130			
Naphthalene	0.106	0.0038	"	0.100		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0406		"	0.0400		101	50-150			
Surrogate: Toluene-d8	0.0399		"	0.0400		99.8	50-150			
Surrogate: 4-Bromofluorobenzene	0.0387		"	0.0400		96.8	50-150			

Matrix Spike (BHK0991-MS1)

Source: 2411277-25

Prepared & Analyzed: 11/19/24

Benzene	0.0978	0.0020	mg/kg	0.100	ND	97.8	70-130			
Toluene	0.0983	0.0050	"	0.100	ND	98.3	70-130			
Ethylbenzene	0.0993	0.0050	"	0.100	ND	99.3	70-130			
m,p-Xylene	0.200	0.010	"	0.200	ND	99.9	70-130			
o-Xylene	0.0974	0.0050	"	0.100	ND	97.4	70-130			
1,2,4-Trimethylbenzene	0.102	0.0050	"	0.100	ND	102	70-130			
1,3,5-Trimethylbenzene	0.101	0.0050	"	0.100	ND	101	70-130			
Naphthalene	0.0997	0.0038	"	0.100	ND	99.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0432		"	0.0400		108	50-150			
Surrogate: Toluene-d8	0.0393		"	0.0400		98.2	50-150			
Surrogate: 4-Bromofluorobenzene	0.0397		"	0.0400		99.3	50-150			

Summit Scientific

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

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

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

Batch BHK0991 - EPA 5030 Soil MS

Matrix Spike Dup (BHK0991-MSD1)		Source: 2411277-25			Prepared & Analyzed: 11/19/24					
Benzene	0.0958	0.0020	mg/kg	0.100	ND	95.8	70-130	2.01	30	
Toluene	0.0956	0.0050	"	0.100	ND	95.6	70-130	2.82	30	
Ethylbenzene	0.0964	0.0050	"	0.100	ND	96.4	70-130	2.91	30	
m,p-Xylene	0.192	0.010	"	0.200	ND	95.9	70-130	4.11	30	
o-Xylene	0.0948	0.0050	"	0.100	ND	94.8	70-130	2.65	30	
1,2,4-Trimethylbenzene	0.0968	0.0050	"	0.100	ND	96.8	70-130	5.25	30	
1,3,5-Trimethylbenzene	0.0968	0.0050	"	0.100	ND	96.8	70-130	4.13	30	
Naphthalene	0.0958	0.0038	"	0.100	ND	95.8	70-130	3.99	30	
Surrogate: 1,2-Dichloroethane-d4		0.0422	"	0.0400		105	50-150			
Surrogate: Toluene-d8		0.0390	"	0.0400		97.6	50-150			
Surrogate: 4-Bromofluorobenzene		0.0397	"	0.0400		99.2	50-150			

Summit Scientific

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

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BHK0992 - EPA 3550A

Blank (BHK0992-BLK1)

Prepared: 11/19/24 Analyzed: 11/24/24

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	10.8		"	12.5		86.2	30-150			

LCS (BHK0992-BS1)

Prepared: 11/19/24 Analyzed: 11/24/24

C10-C28 (DRO)	488	50	mg/kg	500		97.7	70-130			
Surrogate: o-Terphenyl	11.1		"	12.5		89.1	30-150			

Matrix Spike (BHK0992-MS1)

Source: 2411277-25

Prepared: 11/19/24 Analyzed: 11/24/24

C10-C28 (DRO)	478	50	mg/kg	500	ND	95.6	70-130			
Surrogate: o-Terphenyl	10.9		"	12.5		86.9	30-150			

Matrix Spike Dup (BHK0992-MSD1)

Source: 2411277-25

Prepared: 11/19/24 Analyzed: 11/24/24

C10-C28 (DRO)	457	50	mg/kg	500	ND	91.4	70-130	4.45	20	
Surrogate: o-Terphenyl	10.0		"	12.5		80.0	30-150			

Summit Scientific

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

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHK1018 - EPA 5030 Soil MS

Blank (BHK1018-BLK1)

Prepared: 11/20/24 Analyzed: 11/22/24

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	0.0139		"	0.0333		41.7	40-140			
Surrogate: Fluoranthene-d10	0.0151		"	0.0333		45.3	40-140			

LCS (BHK1018-BS1)

Prepared: 11/20/24 Analyzed: 11/26/24

Acenaphthene	0.0231	0.00500	mg/kg	0.0333		69.2	40-140			
Anthracene	0.0236	0.00500	"	0.0333		70.7	40-140			
Benzo (a) anthracene	0.0245	0.00500	"	0.0333		73.5	40-140			
Benzo (a) pyrene	0.0231	0.00500	"	0.0333		69.4	40-140			
Benzo (b) fluoranthene	0.0273	0.00500	"	0.0333		81.8	40-140			
Benzo (k) fluoranthene	0.0249	0.00500	"	0.0333		74.6	40-140			
Chrysene	0.0221	0.00500	"	0.0333		66.2	40-140			
Dibenz (a,h) anthracene	0.0166	0.00500	"	0.0333		49.8	40-140			
Fluoranthene	0.0230	0.00500	"	0.0333		68.9	40-140			
Fluorene	0.0229	0.00500	"	0.0333		68.7	40-140			
Indeno (1,2,3-cd) pyrene	0.0147	0.00500	"	0.0333		44.2	40-140			
Pyrene	0.0325	0.00500	"	0.0333		97.4	40-140			
1-Methylnaphthalene	0.0230	0.00500	"	0.0333		68.9	40-140			
2-Methylnaphthalene	0.0236	0.00500	"	0.0333		70.7	40-140			
Surrogate: 2-Methylnaphthalene-d10	0.0238		"	0.0333		71.4	40-140			
Surrogate: Fluoranthene-d10	0.0243		"	0.0333		72.9	40-140			

Summit Scientific

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

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHK1018 - EPA 5030 Soil MS

Matrix Spike (BHK1018-MS1)			Source: 2411292-01		Prepared: 11/20/24 Analyzed: 11/26/24						
Acenaphthene	0.0220	0.00500	mg/kg	0.0333	ND	66.0	40-140				
Anthracene	0.0227	0.00500	"	0.0333	ND	68.2	40-140				
Benzo (a) anthracene	0.0270	0.00500	"	0.0333	ND	80.9	40-140				
Benzo (a) pyrene	0.0216	0.00500	"	0.0333	ND	64.8	40-140				
Benzo (b) fluoranthene	0.0272	0.00500	"	0.0333	ND	81.6	40-140				
Benzo (k) fluoranthene	0.0248	0.00500	"	0.0333	ND	74.4	40-140				
Chrysene	0.0221	0.00500	"	0.0333	ND	66.2	40-140				
Dibenz (a,h) anthracene	0.0117	0.00500	"	0.0333	ND	35.0	40-140				QM-05
Fluoranthene	0.0256	0.00500	"	0.0333	ND	76.8	40-140				
Fluorene	0.0222	0.00500	"	0.0333	ND	66.5	40-140				
Indeno (1,2,3-cd) pyrene	0.0109	0.00500	"	0.0333	ND	32.7	40-140				QM-05
Pyrene	0.0341	0.00500	"	0.0333	0.00494	87.5	40-140				
1-Methylnaphthalene	0.0208	0.00500	"	0.0333	ND	62.3	40-140				
2-Methylnaphthalene	0.0213	0.00500	"	0.0333	ND	63.9	40-140				
Surrogate: 2-Methylnaphthalene-d10	0.0216		"	0.0333		64.8	40-140				
Surrogate: Fluoranthene-d10	0.0236		"	0.0333		70.8	40-140				

Matrix Spike Dup (BHK1018-MSD1)			Source: 2411292-01		Prepared: 11/20/24 Analyzed: 11/26/24						
Acenaphthene	0.0210	0.00500	mg/kg	0.0333	ND	63.1	40-140	4.57	30		
Anthracene	0.0231	0.00500	"	0.0333	ND	69.4	40-140	1.72	30		
Benzo (a) anthracene	0.0273	0.00500	"	0.0333	ND	81.8	40-140	1.08	30		
Benzo (a) pyrene	0.0231	0.00500	"	0.0333	ND	69.3	40-140	6.73	30		
Benzo (b) fluoranthene	0.0266	0.00500	"	0.0333	ND	79.7	40-140	2.34	30		
Benzo (k) fluoranthene	0.0248	0.00500	"	0.0333	ND	74.5	40-140	0.223	30		
Chrysene	0.0219	0.00500	"	0.0333	ND	65.6	40-140	0.997	30		
Dibenz (a,h) anthracene	0.0118	0.00500	"	0.0333	ND	35.5	40-140	1.46	30		QM-05
Fluoranthene	0.0242	0.00500	"	0.0333	ND	72.5	40-140	5.63	30		
Fluorene	0.0217	0.00500	"	0.0333	ND	65.1	40-140	2.10	30		
Indeno (1,2,3-cd) pyrene	0.0106	0.00500	"	0.0333	ND	31.8	40-140	2.76	30		QM-05
Pyrene	0.0321	0.00500	"	0.0333	0.00494	81.4	40-140	6.17	30		
1-Methylnaphthalene	0.0189	0.00500	"	0.0333	ND	56.6	40-140	9.68	30		
2-Methylnaphthalene	0.0193	0.00500	"	0.0333	ND	57.9	40-140	9.98	30		
Surrogate: 2-Methylnaphthalene-d10	0.0194		"	0.0333		58.2	40-140				
Surrogate: Fluoranthene-d10	0.0240		"	0.0333		72.1	40-140				

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

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

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

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

Batch BHK1264 - EPA 3050B

Blank (BHK1264-BLK1)				Prepared: 11/25/24 Analyzed: 11/28/24						
Boron	ND	2.00	mg/L							
LCS (BHK1264-BS1)				Prepared: 11/25/24 Analyzed: 11/28/24						
Boron	5.08	2.00	mg/L	5.00		102	80-120			
Duplicate (BHK1264-DUP1)				Source: 2411287-14		Prepared: 11/25/24 Analyzed: 11/28/24				
Boron	0.697	2.00	mg/L		0.710			1.84	20	
Matrix Spike (BHK1264-MS1)				Source: 2411287-14		Prepared: 11/25/24 Analyzed: 11/28/24				
Boron	5.62	2.00	mg/L	5.00	0.710	98.2	75-125			
Matrix Spike Dup (BHK1264-MSD1)				Source: 2411287-14		Prepared: 11/25/24 Analyzed: 11/28/24				
Boron	5.76	2.00	mg/L	5.00	0.710	101	75-125	2.46	25	

Batch BHL0037 - EPA 3050B

Blank (BHL0037-BLK1)				Prepared: 12/02/24 Analyzed: 12/03/24						
Boron	ND	2.00	mg/L							
LCS (BHL0037-BS1)				Prepared: 12/02/24 Analyzed: 12/03/24						
Boron	5.01	2.00	mg/L	5.00		100	80-120			
Duplicate (BHL0037-DUP1)				Source: 2411533-21		Prepared: 12/02/24 Analyzed: 12/03/24				
Boron	0.577	2.00	mg/L		0.483			17.7	20	
Matrix Spike (BHL0037-MS1)				Source: 2411533-21		Prepared: 12/02/24 Analyzed: 12/03/24				
Boron	5.50	2.00	mg/L	5.00	0.483	100	75-125			

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

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

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

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

Batch BHL0037 - EPA 3050B

Matrix Spike Dup (BHL0037-MSD1)

Source: 2411533-21

Prepared: 12/02/24 Analyzed: 12/03/24

Boron	5.61	2.00	mg/L	5.00	0.483	102	75-125	1.82	25
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Batch BHL0038 - EPA 3050B

Blank (BHL0038-BLK1)

Prepared: 12/02/24 Analyzed: 12/03/24

Boron	ND	2.00	mg/L
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LCS (BHL0038-BS1)

Prepared: 12/02/24 Analyzed: 12/03/24

Boron	5.06	2.00	mg/L	5.00	101	80-120
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Duplicate (BHL0038-DUP1)

Source: 2411292-24

Prepared: 12/02/24 Analyzed: 12/03/24

Boron	0.243	2.00	mg/L	0.273	11.9	20
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Matrix Spike (BHL0038-MS1)

Source: 2411292-24

Prepared: 12/02/24 Analyzed: 12/03/24

Boron	5.02	2.00	mg/L	5.00	0.273	94.8	75-125
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Matrix Spike Dup (BHL0038-MSD1)

Source: 2411292-24

Prepared: 12/02/24 Analyzed: 12/03/24

Boron	5.28	2.00	mg/L	5.00	0.273	100	75-125	5.05	25
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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHL0407 - EPA 3050B

Blank (BHL0407-BLK1)

Prepared: 12/10/24 Analyzed: 12/16/24

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 (BHL0407-BS1)

Prepared: 12/10/24 Analyzed: 12/16/24

Arsenic	39.5	0.200	mg/kg wet	40.7	97.2	80-120
Barium	40.0	0.400	"	40.7	98.3	80-120
Cadmium	1.87	0.200	"	2.03	92.0	80-120
Copper	38.9	0.400	"	40.7	95.6	80-120
Lead	18.7	0.200	"	20.3	92.0	80-120
Nickel	38.9	0.400	"	40.7	95.8	80-120
Silver	1.91	0.0200	"	2.03	94.0	80-120
Zinc	37.2	0.400	"	40.7	91.6	80-120
Selenium	3.95	0.260	"	4.07	97.0	80-120

Duplicate (BHL0407-DUP1)

Source: 2411292-01

Prepared: 12/10/24 Analyzed: 12/16/24

Arsenic	1.85	0.200	mg/kg dry	2.26	20.3	20	QR-01
Barium	55.1	0.400	"	49.0	11.6	20	
Cadmium	0.168	0.200	"	0.148	12.7	20	
Copper	6.46	0.400	"	5.00	25.5	20	QR-04
Lead	5.28	0.200	"	5.00	5.43	20	
Nickel	4.56	0.400	"	4.10	10.7	20	
Silver	0.0453	0.0200	"	0.0527	15.1	20	
Zinc	24.8	0.400	"	21.2	15.9	20	
Selenium	0.339	0.260	"	0.303	11.3	20	

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

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHL0407 - EPA 3050B

Matrix Spike (BHL0407-MS1)		Source: 2411292-01			Prepared: 12/10/24 Analyzed: 12/16/24					
Arsenic	54.0	0.200	mg/kg dry	51.8	2.26	99.7	75-125			
Barium	103	0.400	"	51.8	49.0	105	75-125			
Cadmium	2.62	0.200	"	2.59	0.148	95.4	75-125			
Copper	44.1	0.400	"	51.8	5.00	75.5	75-125			
Lead	30.1	0.200	"	25.9	5.00	96.9	75-125			
Nickel	43.6	0.400	"	51.8	4.10	76.2	75-125			
Silver	2.54	0.0200	"	2.59	0.0527	96.1	75-125			
Zinc	59.7	0.400	"	51.8	21.2	74.3	75-125			QM-05
Selenium	4.88	0.260	"	5.18	0.303	88.3	75-125			

Matrix Spike Dup (BHL0407-MSD1)		Source: 2411292-01			Prepared: 12/10/24 Analyzed: 12/16/24					
Arsenic	53.0	0.200	mg/kg dry	51.4	2.26	98.7	75-125	1.79	25	
Barium	115	0.400	"	51.4	49.0	128	75-125	10.7	25	QM-05
Cadmium	2.62	0.200	"	2.57	0.148	96.3	75-125	0.149	25	
Copper	40.3	0.400	"	51.4	5.00	68.7	75-125	8.95	25	QM-05
Lead	30.4	0.200	"	25.7	5.00	98.6	75-125	0.753	25	
Nickel	40.8	0.400	"	51.4	4.10	71.5	75-125	6.51	25	QM-05
Silver	2.48	0.0200	"	2.57	0.0527	94.5	75-125	2.44	25	
Zinc	57.3	0.400	"	51.4	21.2	70.3	75-125	4.09	25	QM-05
Selenium	4.66	0.260	"	5.14	0.303	84.8	75-125	4.53	25	

Batch BHL0408 - EPA 3050B

Blank (BHL0408-BLK1)		Prepared: 12/10/24 Analyzed: 12/11/24								
Arsenic	ND	0.200	mg/kg wet							
Barium	ND	0.400	"							
Cadmium	ND	0.200	"							
Copper	ND	0.400	"							
Lead	ND	0.200	"							
Nickel	ND	0.400	"							
Silver	ND	0.0200	"							
Zinc	ND	0.400	"							
Selenium	ND	0.260	"							

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

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

Total Metals by EPA 6020B - Quality Control

Summit Scientific

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

Batch BHL0408 - EPA 3050B

LCS (BHL0408-BS1)

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

Arsenic	38.3	0.200	mg/kg wet	40.3		94.9	80-120			
Barium	34.5	0.400	"	40.3		85.5	80-120			
Cadmium	1.76	0.200	"	2.02		87.5	80-120			
Copper	39.3	0.400	"	40.3		97.5	80-120			
Lead	18.0	0.200	"	20.2		89.5	80-120			
Nickel	39.9	0.400	"	40.3		98.9	80-120			
Silver	1.82	0.0200	"	2.02		90.2	80-120			
Zinc	37.6	0.400	"	40.3		93.2	80-120			
Selenium	4.76	0.260	"	4.03		118	80-120			

Duplicate (BHL0408-DUP1)

Source: 2411292-25

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

Arsenic	0.261	0.200	mg/kg dry		0.262		0.229	20		
Barium	14.9	0.400	"		16.5		10.3	20		
Cadmium	0.0340	0.200	"		0.0452		28.5	20		QR-01
Copper	0.148	0.400	"		0.320		73.8	20		QR-01
Lead	1.28	0.200	"		1.71		29.1	20		QR-01
Nickel	ND	0.400	"		ND			20		
Silver	0.0110	0.0200	"		0.0118		6.89	20		
Zinc	2.53	0.400	"		4.47		55.6	20		QR-01
Selenium	ND	0.260	"		ND			20		

Matrix Spike (BHL0408-MS1)

Source: 2411292-25

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

Arsenic	21.7	0.200	mg/kg dry	41.9	0.262	51.2	75-125			QM-05
Barium	54.3	0.400	"	41.9	16.5	90.1	75-125			
Cadmium	1.88	0.200	"	2.10	0.0452	87.8	75-125			
Copper	22.1	0.400	"	41.9	0.320	51.9	75-125			QM-05
Lead	20.2	0.200	"	21.0	1.71	88.2	75-125			
Nickel	22.6	0.400	"	41.9	ND	54.0	75-125			QM-05
Silver	1.94	0.0200	"	2.10	0.0118	91.8	75-125			
Zinc	24.4	0.400	"	41.9	4.47	47.5	75-125			QM-05
Selenium	ND	0.260	"	4.19	ND		75-125			QM-05

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

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHL0408 - EPA 3050B

Matrix Spike Dup (BHL0408-MSD1)		Source: 2411292-25			Prepared: 12/10/24 Analyzed: 12/11/24					
Arsenic	24.3	0.200	mg/kg dry	41.6	0.262	57.9	75-125	11.3	25	QM-05
Barium	48.5	0.400	"	41.6	16.5	77.0	75-125	11.2	25	
Cadmium	1.87	0.200	"	2.08	0.0452	87.6	75-125	0.994	25	
Copper	24.9	0.400	"	41.6	0.320	59.0	75-125	11.8	25	QM-05
Lead	19.1	0.200	"	20.8	1.71	83.4	75-125	5.85	25	
Nickel	25.2	0.400	"	41.6	ND	60.6	75-125	10.7	25	QM-05
Silver	1.89	0.0200	"	2.08	0.0118	90.4	75-125	2.37	25	
Zinc	26.1	0.400	"	41.6	4.47	51.9	75-125	6.74	25	QM-05
Selenium	ND	0.260	"	4.16	ND		75-125		25	QM-05

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

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BHL0194 - 3060A Mod

Blank (BHL0194-BLK1)

Prepared: 12/04/24 Analyzed: 12/06/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHL0194-BS1)

Prepared: 12/04/24 Analyzed: 12/06/24

Chromium, Hexavalent 27.0 0.30 mg/kg wet 25.0 108 80-120

Duplicate (BHL0194-DUP1)

Source: 2411287-21

Prepared: 12/04/24 Analyzed: 12/06/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHL0194-MS1)

Source: 2411287-21

Prepared: 12/04/24 Analyzed: 12/06/24

Chromium, Hexavalent 28.4 0.30 mg/kg dry 29.5 ND 96.2 75-125

Matrix Spike Dup (BHL0194-MSD1)

Source: 2411287-21

Prepared: 12/04/24 Analyzed: 12/06/24

Chromium, Hexavalent 31.0 0.30 mg/kg dry 29.5 ND 105 75-125 8.94 20

Batch BHL0237 - 3060A Mod

Blank (BHL0237-BLK1)

Prepared & Analyzed: 12/05/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHL0237-BS1)

Prepared & Analyzed: 12/05/24

Chromium, Hexavalent 25.8 0.30 mg/kg wet 25.0 103 80-120

Duplicate (BHL0237-DUP1)

Source: 2411292-24

Prepared & Analyzed: 12/05/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHL0237-MS1)

Source: 2411292-24

Prepared & Analyzed: 12/05/24

Chromium, Hexavalent 27.9 0.30 mg/kg dry 27.1 ND 103 75-125

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

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BHL0237 - 3060A Mod

Matrix Spike Dup (BHL0237-MSD1)		Source: 2411292-24			Prepared & Analyzed: 12/05/24						
Chromium, Hexavalent	27.3	0.30	mg/kg dry	27.1	ND	101	75-125	1.96	20		

Summit Scientific

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

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

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

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

Batch BHL0422 - General Preparation

Blank (BHL0422-BLK1)

Prepared: 12/10/24 Analyzed: 12/14/24

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

LCS (BHL0422-BS1)

Prepared: 12/10/24 Analyzed: 12/14/24

Calcium	5.34	0.0500	mg/L wet	5.00	107	70-130
Magnesium	5.03	0.0500	"	5.00	101	70-130
Sodium	5.02	0.0500	"	5.00	100	70-130

Summit Scientific

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

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control
Summit Scientific

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

Batch BHK1382 - General Preparation

Duplicate (BHK1382-DUP1)		Source: 2411291-01			Prepared & Analyzed: 11/27/24					
% Solids	90.1		%		88.9			1.40	20	

Batch BHL0027 - General Preparation

Duplicate (BHL0027-DUP1)		Source: 2411292-20			Prepared: 12/02/24 Analyzed: 12/03/24					
% Solids	97.0		%		97.2			0.148	20	

Summit Scientific

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

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

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

Summit Scientific

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

Batch BHL0424 - General Preparation

Blank (BHL0424-BLK1)

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

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHL0424-BS1)

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

Specific Conductance (EC) 0.151 0.0100 mmhos/cm 0.150 100 95-105

Duplicate (BHL0424-DUP1)

Source: 2411292-01

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

Specific Conductance (EC) 1.82 0.0100 mmhos/cm 1.85 1.64 20

Summit Scientific

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

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 10:47

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control
Summit Scientific

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

Batch BHL0423 - General Preparation

LCS (BHL0423-BS1)

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

pH	9.05	pH Units	9.18	98.6	95-105
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Duplicate (BHL0423-DUP1)

Source: 2411292-01

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

pH	7.87	pH Units	7.85	0.254	20
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Summit Scientific

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

Project: Chevron - Five Rivers K09-28D

Project Number: [none]
Project Manager: Andy Sagen

Reported:
12/17/24 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.
QR-01	Analyses are not controlled on RPD values from sample concentrations below the reporting limit. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference