Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

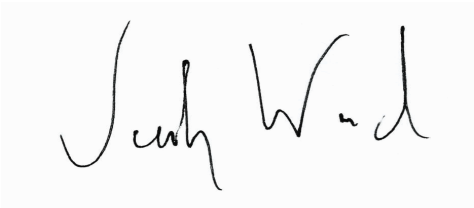
September 03, 2024

Justin Onwiler
ERM
555 17th St
Denver, CO 80202

RE: Chevron Sampling
Work Order #2408331

Enclosed are the results of analyses for samples received by Summit Scientific on 08/27/24 16:52. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Jacob Wood For Paul Shrewsbury
President

S2

ERM 555 17th St Denver CO, 80202	Project: Chevron Sampling Project Number: 0736294 Project Manager: Justin Onwiler	**Reported:** 09/03/24 15:33

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
25002-BG-03-6-20240827	2408331-01	Soil	08/27/24 12:10	08/27/24 16:52
25002-BG-01-6-20240827	2408331-02	Soil	08/27/24 12:35	08/27/24 16:52
25002-WH-01-N-4-20240827	2408331-03	Soil	08/27/24 12:55	08/27/24 16:52
25002-WH-01-N-6-20240827	2408331-04	Soil	08/27/24 13:20	08/27/24 16:52
25002-WH-01-N-8-20240827	2408331-05	Soil	08/27/24 13:45	08/27/24 16:52
25002-WH-01-W-4-20240827	2408331-06	Soil	08/27/24 14:05	08/27/24 16:52
25002-WH-01-W-6-20240827	2408331-07	Soil	08/27/24 14:15	08/27/24 16:52
25002-WH-01-W-8-20240827	2408331-08	Soil	08/27/24 14:20	08/27/24 16:52
25002-WH-01-S-4-20240827	2408331-09	Soil	08/27/24 14:35	08/27/24 16:52
25002-WH-01-S-6-20240827	2408331-10	Soil	08/27/24 14:45	08/27/24 16:52
25002-WH-01-S-8-20240827	2408331-11	Soil	08/27/24 14:52	08/27/24 16:52
25002-WH-01-E-4-20240827	2408331-12	Soil	08/27/24 15:00	08/27/24 16:52
25002-WH-01-E-6-20240827	2408331-13	Soil	08/27/24 15:08	08/27/24 16:52
25002-WH-01-E-8-20240827	2408331-14	Soil	08/27/24 15:12	08/27/24 16:52
25002-BG-02-6-20240827	2408331-15	Soil	08/27/24 15:35	08/27/24 16:52
~~25130-BG-01-6-20240827~~	~~2408331-16~~	~~Soil~~	~~08/27/24 13:28~~	~~08/27/24 16:52~~
~~25130-BG-02-6-20240827~~	~~2408331-17~~	~~Soil~~	~~08/27/24 13:53~~	~~08/27/24 16:52~~
~~25130-BG-03-6-20240827~~	~~2408331-18~~	~~Soil~~	~~08/27/24 14:16~~	~~08/27/24 16:52~~
~~25130-WH-01-E-4-20240827~~	~~2408331-19~~	~~Soil~~	~~08/27/24 12:20~~	~~08/27/24 16:52~~
~~25130-WH-01-E-6-20240827~~	~~2408331-20~~	~~Soil~~	~~08/27/24 12:27~~	~~08/27/24 16:52~~
~~25130-WH-01-E-7-20240827~~	~~2408331-21~~	~~Soil~~	~~08/27/24 12:30~~	~~08/27/24 16:52~~
~~25130-WH-01-N-4-20240827~~	~~2408331-22~~	~~Soil~~	~~08/27/24 10:30~~	~~08/27/24 16:52~~
~~25130-WH-01-N-6-20240827~~	~~2408331-23~~	~~Soil~~	~~08/27/24 10:37~~	~~08/27/24 16:52~~
~~25130-WH-01-N-8-20240827~~	~~2408331-24~~	~~Soil~~	~~08/27/24 10:43~~	~~08/27/24 16:52~~
~~25130-WH-01-S-4-20240827~~	~~2408331-25~~	~~Soil~~	~~08/27/24 11:50~~	~~08/27/24 16:52~~
~~25130-WH-01-S-6-20240827~~	~~2408331-26~~	~~Soil~~	~~08/27/24 11:57~~	~~08/27/24 16:52~~
~~25130-WH-01-S-8-20240827~~	~~2408331-27~~	~~Soil~~	~~08/27/24 12:01~~	~~08/27/24 16:52~~

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.

S2

ERM 555 17th St Denver CO, 80202	Project: Chevron Sampling Project Number: 0736294 Project Manager: Justin Onwiler	**Reported:** 09/03/24 15:33

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
~~25130-WH-01-W-4-20240827~~	~~2408331-28~~	~~Soil~~	~~08/27/24 11:17~~	~~08/27/24 16:52~~
~~25130-WH-01-W-6-20240827~~	~~2408331-29~~	~~Soil~~	~~08/27/24 11:24~~	~~08/27/24 16:52~~
~~25130-WH-01-W-8-20240827~~	~~2408331-30~~	~~Soil~~	~~08/27/24 11:32~~	~~08/27/24 16:52~~

Case Narrative

Andrew Minehan requested SAR be added to all samples on 8/28/2024.
This report includes those results.

Summit Scientific

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

Lab ID	Page 1 of 2
2408331.1	

Send Data To:	Send Invoice To:
Client: ERM	Project Manager: Justin Onwiler	Company: ERM
~~Address:~~ 303-741-5050	E-Mail: Justin.Onwiler@erm.com	Project Name/Location: Chevron Sampling / Greeley
City/State/Zip: Denver, CO 80202		AFE#:
~~Phone~~: 555 17th St #1700 Denver CO	Project Name: Chevron Sampling	PO/Billing Codes:
Sampler Name: Andrew Minehan, Cody Kauss	Project Number: 07362794	Contact:

					Preservative				Matrix				Analysis Requested								Special Instructions
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other ___	Water	Soil	Air-Canister #	Other ___	pH by 9045D								
1	25002-B6-03-6-20240827	8/27/24	12:10	1			X						1								
2	25002-B6-03-6-20240827	8/27/24	12:35	1			X						1								
3	25002-B6-WH-01-N-4-20240827	8/27/24	12:55	1			X						1								
4	25002-WH-01-N-6-20240827	8/27/24	13:20	1			X						1								
5	25002-WH-01-N-8-20240827	8/27/24	13:45	1			X						1								
6	25002-WH-01-W-4-20240827	8/27/24	14:05	1			X						1								
7	25002-WH-01-W-6-20240827	8/27/24	14:15	1			X						1								
8	25002-WH-01-W-8-20240827	8/27/24	14:20	1			X						1								
9	25002-WH-01-S-4-20240827	8/27/24	14:35	1			X						1								
10	25002-WH-01-S-6-20240827	8/27/24	14:45	1			X						1								
11	25002-WH-01-S-8-20240827	8/27/24	14:52	1			X						1								
12	25002-WH-01-E-4-20240827	8/27/24	15:00	1			X						1								
13	25002-WH-01-E-6-20240827	8/27/24	15:08	1			X						1								
14	25002-WH-01-E-8-20240827	8/27/24	15:12	1			X						1								
15	25002-B6-02-6-20240827	8/27/24	15:35										1								

Relinquished by:	Date/Time:	Received by:	Date/Time:
Andrew Minehan	8/27/24 1652		
		8/27/24	16:52
Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:

TAT Business Days		Field DO	
Same Day		Field EC	
1 Day		Field ORP	
2 Days		Field pH	
3 Days		Field Temp.	
Standard	X	Field Turb.	

Notes:

Temperature Upon Receipt: 16.9 | Corrected Temperature: | IR gun #: 2 | HNO3 lot #:

Control Form: C001

S2

2/2

Sample Receipt Checklist

S2 Work Order# 2408331

Client: ERM

Client Project ID: Chevron Sampling

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

[ ] [ ] [ ] [ ] [ ]

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

Temp (°C) [16.9] 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.	✓			on ice
If custody seals are present, are they intact? (1)			✓	
Are samples due within 48 hours present?		✓		
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		✓		
Is a chain-of-custody (COC) form present and filled out Completely? (1)		✓		no matrix, missing # of containers on 2nd page
Is the COC properly relinquished by the client w/ date and time recorded? (1)	✓			
Were all samples received intact? (1)	✓			
Was adequate sample volume provided? (1)	✓			
Does the COC agree with the number and type of sample bottles received? (1)	✓			
Do the sample IDs on the bottle labels match the COC? (1)		✓		some time stamps didn't match
For volatiles in water – is there headspace present? **If yes, contact client and note in narrative.**			✓	
Are samples preserved that require preservation **(excluding cooling)?** (1) Note the type of preservative in the comments column – HCl, H_2SO_4, NaOH, HNO_3, etc.			✓	
If samples are acid preserved for metals, is the pH ≤ 2? (1) Record the pH in Comments.			✓	
If dissolved metals are requested, were samples field filtered?			✓	
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 Name

8/27/24

Date/Time

S2

ERM 555 17th St Denver CO, 80202	Project: Chevron Sampling Project Number: 0736294 Project Manager: Justin Onwiler	**Reported:** 09/03/24 15:33

25002-BG-03-6-20240827

2408331-01 (Soil)

Summit Scientific

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

Date Sampled: **08/27/24 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**517**	0.0500	mg/L dry	1	BHH0934	08/29/24	08/31/24	EPA 6020B	
Magnesium	**207**	0.0500	"	"	"	"	"	"	
Sodium	**903**	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/27/24 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**8.49**	0.00100	units	1	BHI0032	09/03/24	09/03/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/27/24 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**78.6**		%	1	BHH0891	08/29/24	08/29/24	Calculation	

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

Date Sampled: **08/27/24 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	**7.95**		pH Units	1	BHH0935	08/29/24	08/30/24	EPA 9045D	

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S2

ERM 555 17th St Denver CO, 80202	Project: Chevron Sampling Project Number: 0736294 Project Manager: Justin Onwiler	**Reported:** 09/03/24 15:33

25002-BG-01-6-20240827

2408331-02 (Soil)

Summit Scientific

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

Date Sampled: **08/27/24 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**453**	0.0500	mg/L dry	1	BHH0934	08/29/24	08/31/24	EPA 6020B	
Magnesium	**276**	0.0500	"	"	"	"	"	"	
Sodium	**1550**	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/27/24 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**14.2**	0.00100	units	1	BHI0032	09/03/24	09/03/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/27/24 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**78.8**		%	1	BHH0891	08/29/24	08/29/24	Calculation	

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

Date Sampled: **08/27/24 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	**7.94**		pH Units	1	BHH0935	08/29/24	08/30/24	EPA 9045D	

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ERM 555 17th St Denver CO, 80202	Project: Chevron Sampling Project Number: 0736294 Project Manager: Justin Onwiler	**Reported:** 09/03/24 15:33

25002-WH-01-N-4-20240827

2408331-03 (Soil)

Summit Scientific

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

Date Sampled: **08/27/24 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**21.8**	0.0500	mg/L dry	1	BHH0934	08/29/24	08/31/24	EPA 6020B	
Magnesium	**13.3**	0.0500	"	"	"	"	"	"	
Sodium	**214**	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/27/24 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**8.91**	0.00100	units	1	BHI0032	09/03/24	09/03/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/27/24 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**84.8**		%	1	BHH0891	08/29/24	08/29/24	Calculation	

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

Date Sampled: **08/27/24 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	**8.58**		pH Units	1	BHH0935	08/29/24	08/30/24	EPA 9045D	

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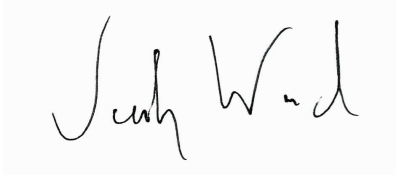

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ERM 555 17th St Denver CO, 80202	Project: Chevron Sampling Project Number: 0736294 Project Manager: Justin Onwiler	**Reported:** 09/03/24 15:33

25002-WH-01-N-6-20240827

2408331-04 (Soil)

Summit Scientific

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

Date Sampled: **08/27/24 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**29.0**	0.0500	mg/L dry	1	BHH0934	08/29/24	08/31/24	EPA 6020B	
Magnesium	**25.4**	0.0500	"	"	"	"	"	"	
Sodium	**444**	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/27/24 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**14.5**	0.00100	units	1	BHI0032	09/03/24	09/03/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/27/24 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**80.3**		%	1	BHH0891	08/29/24	08/29/24	Calculation	

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

Date Sampled: **08/27/24 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	**8.44**		pH Units	1	BHH0935	08/29/24	08/30/24	EPA 9045D	

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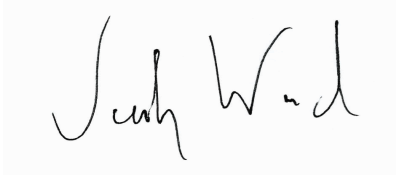

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ERM 555 17th St Denver CO, 80202	Project: Chevron Sampling Project Number: 0736294 Project Manager: Justin Onwiler	**Reported:** 09/03/24 15:33

25002-WH-01-N-8-20240827

2408331-05 (Soil)

Summit Scientific

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

Date Sampled: **08/27/24 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**37.5**	0.0500	mg/L dry	1	BHH0934	08/29/24	08/31/24	EPA 6020B	
Magnesium	**34.3**	0.0500	"	"	"	"	"	"	
Sodium	**573**	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/27/24 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**16.3**	0.00100	units	1	BHI0032	09/03/24	09/03/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/27/24 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**80.5**		%	1	BHH0891	08/29/24	08/29/24	Calculation	

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

Date Sampled: **08/27/24 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	**8.37**		pH Units	1	BHH0935	08/29/24	08/30/24	EPA 9045D	

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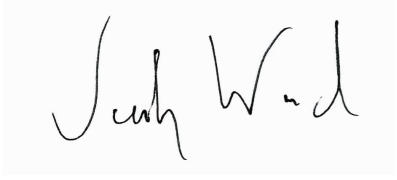

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ERM 555 17th St Denver CO, 80202	Project: Chevron Sampling Project Number: 0736294 Project Manager: Justin Onwiler	**Reported:** 09/03/24 15:33

25002-WH-01-W-4-20240827

2408331-06 (Soil)

Summit Scientific

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

Date Sampled: **08/27/24 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**90.7**	0.0500	mg/L dry	1	BHH0934	08/29/24	08/31/24	EPA 6020B	
Magnesium	**39.5**	0.0500	"	"	"	"	"	"	
Sodium	**243**	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/27/24 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**5.36**	0.00100	units	1	BHI0032	09/03/24	09/03/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/27/24 14:05**

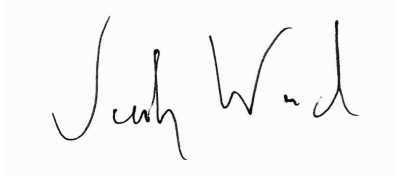
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**85.3**		%	1	BHH0891	08/29/24	08/29/24	Calculation	

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

Date Sampled: **08/27/24 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	**8.32**		pH Units	1	BHH0935	08/29/24	08/30/24	EPA 9045D	

Summit Scientific



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ERM 555 17th St Denver CO, 80202	Project: Chevron Sampling Project Number: 0736294 Project Manager: Justin Onwiler	**Reported:** 09/03/24 15:33

25002-WH-01-W-6-20240827

2408331-07 (Soil)

Summit Scientific

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

Date Sampled: **08/27/24 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**57.7**	0.0500	mg/L dry	1	BHH0934	08/29/24	08/31/24	EPA 6020B	
Magnesium	**39.1**	0.0500	"	"	"	"	"	"	
Sodium	**429**	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/27/24 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**10.7**	0.00100	units	1	BHI0032	09/03/24	09/03/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/27/24 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**79.8**		%	1	BHH0891	08/29/24	08/29/24	Calculation	

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

Date Sampled: **08/27/24 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	**8.34**		pH Units	1	BHH0935	08/29/24	08/30/24	EPA 9045D	

Summit Scientific

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S2

ERM 555 17th St Denver CO, 80202	Project: Chevron Sampling Project Number: 0736294 Project Manager: Justin Onwiler	**Reported:** 09/03/24 15:33

25002-WH-01-W-8-20240827

2408331-08 (Soil)

Summit Scientific

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

Date Sampled: **08/27/24 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**84.3**	0.0500	mg/L dry	1	BHH0934	08/29/24	08/31/24	EPA 6020B	
Magnesium	**61.4**	0.0500	"	"	"	"	"	"	
Sodium	**670**	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/27/24 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**13.5**	0.00100	units	1	BHI0032	09/03/24	09/03/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/27/24 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**78.6**		%	1	BHH0891	08/29/24	08/29/24	Calculation	

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

Date Sampled: **08/27/24 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	**8.13**		pH Units	1	BHH0935	08/29/24	08/30/24	EPA 9045D	

Summit Scientific

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S2

ERM 555 17th St Denver CO, 80202	Project: Chevron Sampling Project Number: 0736294 Project Manager: Justin Onwiler	**Reported:** 09/03/24 15:33

25002-WH-01-S-4-20240827

2408331-09 (Soil)

Summit Scientific

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

Date Sampled: **08/27/24 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**58.6**	0.0500	mg/L dry	1	BHH0934	08/29/24	08/31/24	EPA 6020B	
Magnesium	**73.1**	0.0500	"	"	"	"	"	"	
Sodium	**869**	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/27/24 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**17.9**	0.00100	units	1	BHI0032	09/03/24	09/03/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/27/24 14:35**

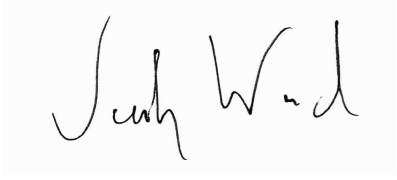
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**82.4**		%	1	BHH0891	08/29/24	08/29/24	Calculation	

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

Date Sampled: **08/27/24 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	**8.29**		pH Units	1	BHH0935	08/29/24	08/30/24	EPA 9045D	

Summit Scientific



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S2

ERM 555 17th St Denver CO, 80202	Project: Chevron Sampling Project Number: 0736294 Project Manager: Justin Onwiler	**Reported:** 09/03/24 15:33

25002-WH-01-S-6-20240827

2408331-10 (Soil)

Summit Scientific

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

Date Sampled: **08/27/24 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**45.7**	0.0500	mg/L dry	1	BHH0934	08/29/24	08/31/24	EPA 6020B	
Magnesium	**47.6**	0.0500	"	"	"	"	"	"	
Sodium	**792**	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/27/24 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**19.6**	0.00100	units	1	BHI0032	09/03/24	09/03/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/27/24 14:45**

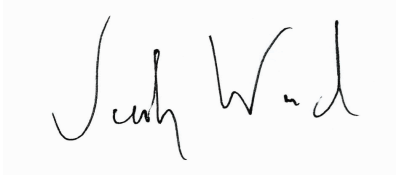
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**79.0**		%	1	BHH0891	08/29/24	08/29/24	Calculation	

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

Date Sampled: **08/27/24 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	**8.23**		pH Units	1	BHH0935	08/29/24	08/30/24	EPA 9045D	

Summit Scientific



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S2

ERM 555 17th St Denver CO, 80202	Project: Chevron Sampling Project Number: 0736294 Project Manager: Justin Onwiler	**Reported:** 09/03/24 15:33

25002-WH-01-S-8-20240827

2408331-11 (Soil)

Summit Scientific

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

Date Sampled: **08/27/24 14:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**48.9**	0.0500	mg/L dry	1	BHH0934	08/29/24	08/31/24	EPA 6020B	
Magnesium	**40.9**	0.0500	"	"	"	"	"	"	
Sodium	**675**	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/27/24 14:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**17.2**	0.00100	units	1	BHI0032	09/03/24	09/03/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

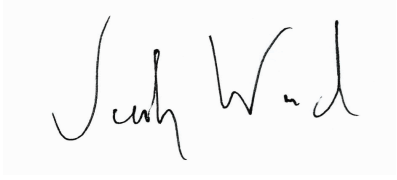
Date Sampled: **08/27/24 14:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**82.0**		%	1	BHH0891	08/29/24	08/29/24	Calculation	

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

Date Sampled: **08/27/24 14:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	**8.36**		pH Units	1	BHH0935	08/29/24	08/30/24	EPA 9045D	



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S2

ERM 555 17th St Denver CO, 80202	Project: Chevron Sampling Project Number: 0736294 Project Manager: Justin Onwiler	**Reported:** 09/03/24 15:33

25002-WH-01-E-4-20240827

2408331-12 (Soil)

Summit Scientific

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

Date Sampled: **08/27/24 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**37.5**	0.0500	mg/L dry	1	BHH0934	08/29/24	08/31/24	EPA 6020B	
Magnesium	**32.3**	0.0500	"	"	"	"	"	"	
Sodium	**283**	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/27/24 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**8.18**	0.00100	units	1	BHI0032	09/03/24	09/03/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/27/24 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**86.7**		%	1	BHH0891	08/29/24	08/29/24	Calculation	

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

Date Sampled: **08/27/24 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	**8.35**		pH Units	1	BHH0935	08/29/24	08/30/24	EPA 9045D	

Summit Scientific

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S2

ERM 555 17th St Denver CO, 80202	Project: Chevron Sampling Project Number: 0736294 Project Manager: Justin Onwiler	**Reported:** 09/03/24 15:33

25002-WH-01-E-6-20240827

2408331-13 (Soil)

Summit Scientific

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

Date Sampled: **08/27/24 15:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**66.7**	0.0500	mg/L dry	1	BHH0934	08/29/24	08/31/24	EPA 6020B	
Magnesium	**47.2**	0.0500	"	"	"	"	"	"	
Sodium	**789**	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/27/24 15:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**18.1**	0.00100	units	1	BHI0032	09/03/24	09/03/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/27/24 15:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**78.8**		%	1	BHH0891	08/29/24	08/29/24	Calculation	

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

Date Sampled: **08/27/24 15:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	**8.24**		pH Units	1	BHH0935	08/29/24	08/30/24	EPA 9045D	

Summit Scientific

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S2

ERM 555 17th St Denver CO, 80202	Project: Chevron Sampling Project Number: 0736294 Project Manager: Justin Onwiler	**Reported:** 09/03/24 15:33

25002-WH-01-E-8-20240827

2408331-14 (Soil)

Summit Scientific

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

Date Sampled: **08/27/24 15:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**27.7**	0.0500	mg/L dry	1	BHH0934	08/29/24	08/31/24	EPA 6020B	
Magnesium	**21.6**	0.0500	"	"	"	"	"	"	
Sodium	**439**	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/27/24 15:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**15.2**	0.00100	units	1	BHI0032	09/03/24	09/03/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/27/24 15:12**

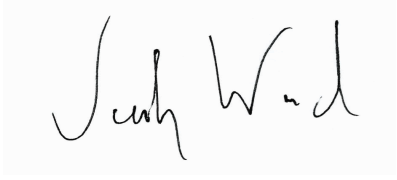
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**82.9**		%	1	BHH0891	08/29/24	08/29/24	Calculation	

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

Date Sampled: **08/27/24 15:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	**8.42**		pH Units	1	BHH0935	08/29/24	08/30/24	EPA 9045D	

Summit Scientific



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S2

ERM 555 17th St Denver CO, 80202	Project: Chevron Sampling Project Number: 0736294 Project Manager: Justin Onwiler	**Reported:** 09/03/24 15:33

25002-BG-02-6-20240827

2408331-15 (Soil)

Summit Scientific

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

Date Sampled: **08/27/24 15:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**549**	0.0500	mg/L dry	1	BHH0934	08/29/24	08/31/24	EPA 6020B	
Magnesium	**165**	0.0500	"	"	"	"	"	"	
Sodium	**704**	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/27/24 15:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**6.77**	0.00100	units	1	BHI0032	09/03/24	09/03/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/27/24 15:35**

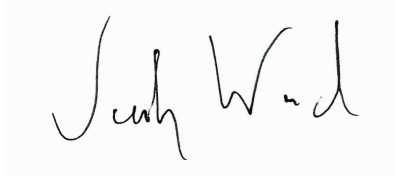
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**78.8**		%	1	BHH0891	08/29/24	08/29/24	Calculation	

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

Date Sampled: **08/27/24 15:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	**7.85**		pH Units	1	BHH0935	08/29/24	08/30/24	EPA 9045D	

Summit Scientific



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S2

ERM 555 17th St Denver CO, 80202	Project: Chevron Sampling Project Number: 0736294 Project Manager: Justin Onwiler	**Reported:** 09/03/24 15:33

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

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHH0934 - General Preparation										
Blank (BHH0934-BLK1)				Prepared: 08/29/24 Analyzed: 08/31/24						
Calcium	ND	0.0500	mg/L wet							
Magnesium	ND	0.0500	"							
Sodium	ND	0.0500	"							
LCS (BHH0934-BS1)				Prepared: 08/29/24 Analyzed: 08/31/24						
Calcium	5.07	0.0500	mg/L wet	5.00		101	70-130			
Magnesium	5.30	0.0500	"	5.00		106	70-130			
Sodium	4.96	0.0500	"	5.00		99.1	70-130			
Batch BHH0937 - General Preparation										
Blank (BHH0937-BLK1)				Prepared: 08/29/24 Analyzed: 08/30/24						
Calcium	ND	0.0500	mg/L wet							
Magnesium	ND	0.0500	"							
Sodium	ND	0.0500	"							
LCS (BHH0937-BS1)				Prepared: 08/29/24 Analyzed: 08/30/24						
Calcium	4.89	0.0500	mg/L wet	5.00		97.7	70-130			
Magnesium	4.80	0.0500	"	5.00		96.1	70-130			
Sodium	5.08	0.0500	"	5.00		102	70-130			

Summit Scientific

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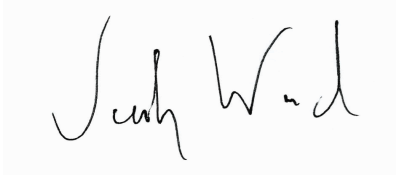
S2

ERM 555 17th St Denver CO, 80202	Project: Chevron Sampling Project Number: 0736294 Project Manager: Justin Onwiler	**Reported:** 09/03/24 15:33

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

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHH0835 - General Preparation										
Duplicate (BHH0835-DUP1)		**Source: 2408302-01**		Prepared & Analyzed: 08/28/24						
% Solids	94.3		%		94.0			0.336	20	
Batch BHH0891 - General Preparation										
Duplicate (BHH0891-DUP1)		**Source: 2408331-01**		Prepared & Analyzed: 08/29/24						
% Solids	79.3		%		78.6			0.971	20	



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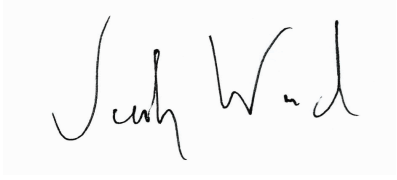
S2

ERM 555 17th St Denver CO, 80202	Project: Chevron Sampling Project Number: 0736294 Project Manager: Justin Onwiler	**Reported:** 09/03/24 15:33

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

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHH0935 - General Preparation										
LCS (BHH0935-BS1)				Prepared: 08/29/24 Analyzed: 08/30/24						
pH	9.01		pH Units	9.18		98.1	95-105			
Duplicate (BHH0935-DUP1)		**Source: 2408331-01**		Prepared: 08/29/24 Analyzed: 08/30/24						
pH	7.96		pH Units		7.95			0.126	20	
Batch BHH0938 - General Preparation										
LCS (BHH0938-BS1)				Prepared: 08/29/24 Analyzed: 08/30/24						
pH	9.05		pH Units	9.18		98.6	95-105			
Duplicate (BHH0938-DUP1)		**Source: 2408318-01**		Prepared: 08/29/24 Analyzed: 08/30/24						
pH	8.70		pH Units		8.70			0.00	20	



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S2

ERM 555 17th St Denver CO, 80202	Project: Chevron Sampling Project Number: 0736294 Project Manager: Justin Onwiler	**Reported:** 09/03/24 15:33

Notes and Definitions

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