

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

September 18, 2024

Justin Onwiler

ERM

555 17th St

Denver, CO 80202

RE: Chevron RBU - Ries 3-19

Work Order #2409129

Enclosed are the results of analyses for samples received by Summit Scientific on 09/10/24 17:22. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Natalie Tessier For Paul Shrewsbury  
President



ERM  
555 17th St  
Denver CO, 80202

Project: Chevron RBU - Ries 3-19

Project Number: UWRNE-A2718-ABN 0736294

Project Manager: Justin Onwiler

**Reported:**  
09/18/24 07:54

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
24968-WH-01-N-4-20240910	2409129-01	Soil	09/10/24 08:30	09/10/24 17:22
24968-WH-01-N-6-20240910	2409129-02	Soil	09/10/24 08:45	09/10/24 17:22
24968-WH-01-N-8-20240910	2409129-03	Soil	09/10/24 08:55	09/10/24 17:22
24968-WH-01-E-4-20240910	2409129-04	Soil	09/10/24 09:15	09/10/24 17:22
24968-WH-01-E-6-20240910	2409129-05	Soil	09/10/24 09:20	09/10/24 17:22
24968-WH-01-E-8-20240910	2409129-06	Soil	09/10/24 09:25	09/10/24 17:22
24968-WH-01-S-4-20240910	2409129-07	Soil	09/10/24 08:39	09/10/24 17:22
24968-WH-01-S-6-20240910	2409129-08	Soil	09/10/24 08:55	09/10/24 17:22
24968-WH-01-S-8-20240910	2409129-09	Soil	09/10/24 09:08	09/10/24 17:22
24968-WH-01-W-4-20240910	2409129-10	Soil	09/10/24 09:28	09/10/24 17:22
24968-WH-01-W-6-20240910	2409129-11	Soil	09/10/24 09:33	09/10/24 17:22
24968-WH-01-W-8-20240910	2409129-12	Soil	09/10/24 09:36	09/10/24 17:22
24968-BG-01-4-20240910	2409129-13	Soil	09/10/24 09:00	09/10/24 17:22
24968-BG-02-4-20240910	2409129-14	Soil	09/10/24 09:20	09/10/24 17:22
24968-BG-03-4-20240910	2409129-15	Soil	09/10/24 08:30	09/10/24 17:22
24968-FL-01-N-1-20240910	2409129-16	Soil	09/10/24 11:15	09/10/24 17:22
24968-FL-01-N-3-20240910	2409129-17	Soil	09/10/24 11:20	09/10/24 17:22
24968-FL-01-N-5-20240910	2409129-18	Soil	09/10/24 11:25	09/10/24 17:22
24968-FL-01-E-1-20240910	2409129-19	Soil	09/10/24 10:55	09/10/24 17:22
24968-FL-01-E-3-20240910	2409129-20	Soil	09/10/24 11:00	09/10/24 17:22
24968-FL-01-E-5-20240910	2409129-21	Soil	09/10/24 11:05	09/10/24 17:22
24968-FL-01-W-1-20240910	2409129-22	Soil	09/10/24 11:16	09/10/24 17:22
24968-FL-01-W-3-20240910	2409129-23	Soil	09/10/24 11:20	09/10/24 17:22
24968-FL-01-W-5-20240910	2409129-24	Soil	09/10/24 11:25	09/10/24 17:22
24968-FL-01-S-1-20240910	2409129-25	Soil	09/10/24 10:58	09/10/24 17:22
24968-FL-01-S-3-20240910	2409129-26	Soil	09/10/24 11:02	09/10/24 17:22
24968-FL-01-S-5-20240910	2409129-27	Soil	09/10/24 11:06	09/10/24 17:22

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.*



ERM 555 17th St Denver CO, 80202	Project: Chevron RBU - Ries 3-19 Project Number: UWRNE-A2718-ABN 0736294 Project Manager: Justin Onwiler	<b>Reported:</b> 09/18/24 07:54
--	--	------------------------------------

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
24968-BG-04-4-20240910	2409129-28	Soil	09/10/24 11:02	09/10/24 17:22
24968-BG-05-4-20240910	2409129-29	Soil	09/10/24 11:16	09/10/24 17:22
24968-BG-06-4-20240910	2409129-30	Soil	09/10/24 10:45	09/10/24 17:22

**Case Narrative**

Sample IDs have been corrected to match COC on 9/18/24.

This is a revision of the report originally sent on 9/16/24 at 12:53 MT.

# SUMMIT SCIENTIFIC

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

Lab ID 2409129.1 Page 1 of 2

Client: <u>ERM</u>	Send Data To: Project Manager: <u>Justin Onwiler</u>	Send Invoice To: Company: <u>Chevron RBU</u>
Address: <u>555 17th St., 1700</u>	E-Mail: <u>justin.onwiler@ERM.com</u>	Project Name/Location: <u>Chevron / Rics 3-19</u>
City/State/Zip: <u>Denver, CO 80202</u>	Project Name: <u>Chevron RBU - Rics 3-19</u>	AFE#: <u>WWRN EA 2718 ABN</u>
Phone:	Project Number: <u>0736294</u>	PO/Billing Codes:
Sampler Name: <u>3P, CB, NS, NB, SS, NC</u>	Contact: <u>Dan Peterson</u>	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested				Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	pH by 9045D	SAFS			
1	<del>24968-WH-01-N-4-20240910</del>		8:30	1						X			X				
2	24968-WH-01-B-6-20240910		8:45														
3	24968-WH-01-N-8-20240910		8:55														
4	24968-WH-01-E-4-20240910		9:15														
5	24968-WH-01-E-6-20240910		9:20														
6	24968-WH-01-E-8-20240910		9:25														
7	24968-WH-01-S-4-20240910		8:39														
8	24968-WH-01-S-6-20240910		8:55														
9	24968-WH-01-S-8-20240910		9:08														
10	24968-WH-01-W-4-20240910		9:28														
11	24968-WH-01-W-6-20240910		9:33														
12	24968-WH-01-W-8-20240910		9:36														
13	24968-B6-01-4-20240910		9:00														
14	24968-B6-02-4-20240910		9:20														
15	24968-B6-03-4-20240910		8:30														

Relinquished by: <u>Nathan Champain</u> Date/Time: <u>9/10/24 17:20</u>	Received by: <u>[Signature]</u> Date/Time: <u>9/10/24 17:22</u>	TAT Business Days	Field DO	Notes:
Relinquished by:	Received by:	Same Day	Field EC	
Relinquished by:	Received by:	1 Day	Field ORP	
Relinquished by:	Received by:	2 Days	Field pH	
Relinquished by:	Received by:	3 Days	Field Temp.	
Temperature Upon Receipt: <u>13.6</u>	Corrected Temperature	Standard	Field Turb.	
	IR gun #: <u>2</u>		HNO3 lot #:	

# SUMMIT SCIENTIFIC

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

Lab ID	Page 2 of 2
2409129.2	

Client: ERM	Send Data To: Project Manager: Justin Onwiler	Send Invoice To: Company:
Address: 555 17th St. 1700	E-Mail: justin.onwiler@ERM.com	Project Name/Location:
City/State/Zip: Denver, CO 80202	Project Name: Chevron RBO- Ries 3-19	AFE#:
Phone:	Project Number:	PO/Billing Codes:
Sampler Name: SP, CB, NS, NB, SS, NL		Contact:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Air-Canister #	Other	Analysis Requested						Special Instructions
					HCl	HNO3	None	Other	Water	Soil			Other	SAR-20A					
1	24968-FL-01-N-1-20240910	9/10/2024	1115	1						X		X							
2	24968-FL-01-N-3-20240910		1120	1															
3	24968-FL-01-N-5-20240910		1125	1															
4	24968-FL-01-E-1-20240910		1055	1															
5	24968-FL-01-E-3-20240910		1100	1															
6	24968-FL-01-E-5-20240910		1105	1															
7	24968-FL-01-W-1-20240910		1116	1															
8	24968-FL-01-W-3-20240910		1120	1															
9	24968-FL-01-W-5-20240910		1125	1															
10	24968-FL-01-S-1-20240910		1058	1															
11	24968-FL-01-S-3-20240910		1102	1															
12	24968-FL-01-S-5-20240910		1106	1															
13	24968-BG-01-4-20240910		1102	1															
14	24968-BG-05-4-20240910		1116	1															
15	24968-BG-06-4-20240910	✓	1045	1						✓		✓							

Relinquished by: <u>Nathan Chamberlain</u> Date/Time: <u>9/10/2024</u>	Received by: <u>[Signature]</u> Date/Time: <u>9/10/24 17:22</u>	TAT Business Days	Field DO	Notes: 15 samples for SAR by 20 Be
Relinquished by:	Received by:	Same Day	Field EC	
Relinquished by:	Received by:	1 Day	Field ORP	
Relinquished by:	Received by:	2 Days	Field pH	
Relinquished by:	Received by:	3 Days	Field Temp.	
Temperature Upon Receipt: <u>13.0</u>	Corrected Temperature _____	IR gun #: <u>2</u>	HNO3 lot #: _____	Field Turb.

S<sub>2</sub>

2/2

S2 Work Order# 2409129

Sample Receipt Checklist

Client: ERM

Client Project ID: Chromium-RBU-Ries 3-91

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

Airbill #: \_\_\_\_\_

Matrix (Check all that apply)

Air

Soil/Solid

Water

Other

Temp (°C)

Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> 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? <sup>(1)</sup>	<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 <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out completely? <sup>(1)</sup>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	no TAT
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> 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):

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

Control Form #: SRC-001

AS

Custodian Printed Name

9/10/24

Date/Time



ERM  
555 17th St  
Denver CO, 80202

Project: Chevron RBU - Ries 3-19

Project Number: UWRNE-A2718-ABN 0736294  
Project Manager: Justin Onwiler

**Reported:**  
09/18/24 07:54

**24968-WH-01-N-4-20240910**

**2409129-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **09/10/24 08:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>pH</b>	<b>8.5</b>		pH Units	1	BHI0320	09/11/24	09/11/24	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.*



ERM  
555 17th St  
Denver CO, 80202

Project: Chevron RBU - Ries 3-19

Project Number: UWRNE-A2718-ABN 0736294  
Project Manager: Justin Onwiler

**Reported:**  
09/18/24 07:54

**24968-WH-01-N-6-20240910**  
**2409129-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **09/10/24 08:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>pH</b>	<b>8.8</b>		pH Units	1	BHI0320	09/11/24	09/11/24	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.*



ERM  
555 17th St  
Denver CO, 80202

Project: Chevron RBU - Ries 3-19

Project Number: UWRNE-A2718-ABN 0736294  
Project Manager: Justin Onwiler

**Reported:**  
09/18/24 07:54

**24968-WH-01-N-8-20240910**  
**2409129-03 (Soil)**

**Summit Scientific**

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

Date Sampled: **09/10/24 08:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>pH</b>	<b>8.8</b>		pH Units	1	BHI0320	09/11/24	09/11/24	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.*



ERM  
555 17th St  
Denver CO, 80202

Project: Chevron RBU - Ries 3-19

Project Number: UWRNE-A2718-ABN 0736294  
Project Manager: Justin Onwiler

**Reported:**  
09/18/24 07:54

**24968-WH-01-E-4-20240910**  
**2409129-04 (Soil)**

**Summit Scientific**

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

Date Sampled: **09/10/24 09:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>pH</b>	<b>9.2</b>		pH Units	1	BHI0320	09/11/24	09/11/24	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.*



ERM  
555 17th St  
Denver CO, 80202

Project: Chevron RBU - Ries 3-19

Project Number: UWRNE-A2718-ABN 0736294  
Project Manager: Justin Onwiler

**Reported:**  
09/18/24 07:54

**24968-WH-01-E-6-20240910**  
**2409129-05 (Soil)**

**Summit Scientific**

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

Date Sampled: **09/10/24 09:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>pH</b>	<b>9.3</b>		pH Units	1	BHI0320	09/11/24	09/11/24	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.*



ERM  
555 17th St  
Denver CO, 80202

Project: Chevron RBU - Ries 3-19

Project Number: UWRNE-A2718-ABN 0736294  
Project Manager: Justin Onwiler

**Reported:**  
09/18/24 07:54

**24968-WH-01-E-8-20240910**  
**2409129-06 (Soil)**

**Summit Scientific**

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

Date Sampled: **09/10/24 09:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>pH</b>	<b>8.9</b>		pH Units	1	BHI0320	09/11/24	09/11/24	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.*



ERM  
555 17th St  
Denver CO, 80202

Project: Chevron RBU - Ries 3-19

Project Number: UWRNE-A2718-ABN 0736294  
Project Manager: Justin Onwiler

**Reported:**  
09/18/24 07:54

**24968-WH-01-S-4-20240910**  
**2409129-07 (Soil)**

**Summit Scientific**

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

Date Sampled: **09/10/24 08:39**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>pH</b>	<b>8.9</b>		pH Units	1	BHI0320	09/11/24	09/11/24	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.*



ERM  
555 17th St  
Denver CO, 80202

Project: Chevron RBU - Ries 3-19

Project Number: UWRNE-A2718-ABN 0736294  
Project Manager: Justin Onwiler

**Reported:**  
09/18/24 07:54

**24968-WH-01-S-6-20240910**  
**2409129-08 (Soil)**

**Summit Scientific**

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

Date Sampled: **09/10/24 08:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>pH</b>	<b>9.6</b>		pH Units	1	BHI0320	09/11/24	09/11/24	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.*



ERM  
555 17th St  
Denver CO, 80202

Project: Chevron RBU - Ries 3-19

Project Number: UWRNE-A2718-ABN 0736294  
Project Manager: Justin Onwiler

**Reported:**  
09/18/24 07:54

**24968-WH-01-S-8-20240910**  
**2409129-09 (Soil)**

**Summit Scientific**

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

Date Sampled: **09/10/24 09:08**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>pH</b>	<b>9.0</b>		pH Units	1	BHI0320	09/11/24	09/11/24	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.*



ERM  
555 17th St  
Denver CO, 80202

Project: Chevron RBU - Ries 3-19

Project Number: UWRNE-A2718-ABN 0736294  
Project Manager: Justin Onwiler

**Reported:**  
09/18/24 07:54

**24968-WH-01-W-4-20240910**  
**2409129-10 (Soil)**

**Summit Scientific**

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

Date Sampled: **09/10/24 09:28**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>pH</b>	<b>8.4</b>		pH Units	1	BHI0320	09/11/24	09/11/24	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.*



ERM  
555 17th St  
Denver CO, 80202

Project: Chevron RBU - Ries 3-19

Project Number: UWRNE-A2718-ABN 0736294  
Project Manager: Justin Onwiler

**Reported:**  
09/18/24 07:54

**24968-WH-01-W-6-20240910**  
**2409129-11 (Soil)**

**Summit Scientific**

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

Date Sampled: **09/10/24 09:33**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>pH</b>	<b>8.8</b>		pH Units	1	BHI0320	09/11/24	09/11/24	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.*



ERM  
555 17th St  
Denver CO, 80202

Project: Chevron RBU - Ries 3-19

Project Number: UWRNE-A2718-ABN 0736294  
Project Manager: Justin Onwiler

**Reported:**  
09/18/24 07:54

**24968-WH-01-W-8-20240910**  
**2409129-12 (Soil)**

**Summit Scientific**

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

Date Sampled: **09/10/24 09:36**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>pH</b>	<b>9.2</b>		pH Units	1	BHI0320	09/11/24	09/11/24	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.*



ERM  
555 17th St  
Denver CO, 80202

Project: Chevron RBU - Ries 3-19  
Project Number: UWRNE-A2718-ABN 0736294  
Project Manager: Justin Onwiler

**Reported:**  
09/18/24 07:54

**24968-BG-01-4-20240910**  
**2409129-13 (Soil)**

**Summit Scientific**

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

Date Sampled: **09/10/24 09:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>pH</b>	<b>8.7</b>		pH Units	1	BHI0320	09/11/24	09/11/24	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.*



ERM  
555 17th St  
Denver CO, 80202

Project: Chevron RBU - Ries 3-19

Project Number: UWRNE-A2718-ABN 0736294  
Project Manager: Justin Onwiler

**Reported:**  
09/18/24 07:54

**24968-BG-02-4-20240910**  
**2409129-14 (Soil)**

**Summit Scientific**

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

Date Sampled: **09/10/24 09:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>pH</b>	<b>8.9</b>		pH Units	1	BHI0320	09/11/24	09/11/24	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.*



ERM  
555 17th St  
Denver CO, 80202

Project: Chevron RBU - Ries 3-19  
Project Number: UWRNE-A2718-ABN 0736294  
Project Manager: Justin Onwiler

**Reported:**  
09/18/24 07:54

**24968-BG-03-4-20240910**  
**2409129-15 (Soil)**

**Summit Scientific**

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

Date Sampled: **09/10/24 08:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>pH</b>	<b>8.6</b>		pH Units	1	BHI0320	09/11/24	09/11/24	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.*



ERM  
555 17th St  
Denver CO, 80202

Project: Chevron RBU - Ries 3-19

Project Number: UWRNE-A2718-ABN 0736294  
Project Manager: Justin Onwiler

**Reported:**  
09/18/24 07:54

**24968-FL-01-N-1-20240910**  
**2409129-16 (Soil)**

**Summit Scientific**

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

Date Sampled: **09/10/24 11:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>505</b>	0.0500	mg/L dry	1	BHI0417	09/12/24	09/13/24	EPA 6020B	
<b>Magnesium</b>	<b>97.2</b>	0.0500	"	"	"	"	"	"	
<b>Sodium</b>	<b>109</b>	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **09/10/24 11:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Sodium Adsorption Ratio</b>	<b>1.16</b>	0.00100	units	1	BHI0503	09/16/24	09/16/24	Calculation	

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

Date Sampled: **09/10/24 11:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>% Solids</b>	<b>90.8</b>		%	1	BHI0324	09/11/24	09/11/24	Calculation	

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.*



ERM  
555 17th St  
Denver CO, 80202

Project: Chevron RBU - Ries 3-19  
Project Number: UWRNE-A2718-ABN 0736294  
Project Manager: Justin Onwiler

**Reported:**  
09/18/24 07:54

**24968-FL-01-N-3-20240910**  
**2409129-17 (Soil)**

**Summit Scientific**

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

Date Sampled: **09/10/24 11:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	49.5	0.0500	mg/L dry	1	BHI0417	09/12/24	09/13/24	EPA 6020B	
Magnesium	32.9	0.0500	"	"	"	"	"	"	
Sodium	237	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **09/10/24 11:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	6.41	0.00100	units	1	BHI0503	09/16/24	09/16/24	Calculation	

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

Date Sampled: **09/10/24 11:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	93.4		%	1	BHI0324	09/11/24	09/11/24	Calculation	

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.*



ERM  
555 17th St  
Denver CO, 80202

Project: Chevron RBU - Ries 3-19  
Project Number: UWRNE-A2718-ABN 0736294  
Project Manager: Justin Onwiler

**Reported:**  
09/18/24 07:54

**24968-FL-01-N-5-20240910**  
**2409129-18 (Soil)**

**Summit Scientific**

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

Date Sampled: **09/10/24 11:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	<b>58.1</b>	0.0500	mg/L dry	1	BHI0417	09/12/24	09/13/24	EPA 6020B	
Magnesium	<b>21.5</b>	0.0500	"	"	"	"	"	"	
Sodium	<b>188</b>	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **09/10/24 11:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	<b>5.35</b>	0.00100	units	1	BHI0503	09/16/24	09/16/24	Calculation	

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

Date Sampled: **09/10/24 11:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	<b>88.7</b>		%	1	BHI0324	09/11/24	09/11/24	Calculation	

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.*



ERM  
555 17th St  
Denver CO, 80202

Project: Chevron RBU - Ries 3-19  
Project Number: UWRNE-A2718-ABN 0736294  
Project Manager: Justin Onwiler

**Reported:**  
09/18/24 07:54

**24968-FL-01-E-1-20240910**  
**2409129-19 (Soil)**

**Summit Scientific**

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

Date Sampled: **09/10/24 10:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	61.6	0.0500	mg/L dry	1	BHI0417	09/12/24	09/13/24	EPA 6020B	
Magnesium	15.6	0.0500	"	"	"	"	"	"	
Sodium	93.1	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **09/10/24 10:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	2.74	0.00100	units	1	BHI0503	09/16/24	09/16/24	Calculation	

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

Date Sampled: **09/10/24 10:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	91.4		%	1	BHI0324	09/11/24	09/11/24	Calculation	

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.*





ERM  
555 17th St  
Denver CO, 80202

Project: Chevron RBU - Ries 3-19  
Project Number: UWRNE-A2718-ABN 0736294  
Project Manager: Justin Onwiler

**Reported:**  
09/18/24 07:54

**24968-FL-01-E-3-20240910**  
**2409129-20 (Soil)**

**Summit Scientific**

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

Date Sampled: **09/10/24 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	96.3	0.0500	mg/L dry	1	BHI0417	09/12/24	09/13/24	EPA 6020B	
Magnesium	45.9	0.0500	"	"	"	"	"	"	
Sodium	157	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **09/10/24 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.30	0.00100	units	1	BHI0503	09/16/24	09/16/24	Calculation	

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

Date Sampled: **09/10/24 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.5		%	1	BHI0324	09/11/24	09/11/24	Calculation	

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.*



ERM  
555 17th St  
Denver CO, 80202

Project: Chevron RBU - Ries 3-19  
Project Number: UWRNE-A2718-ABN 0736294  
Project Manager: Justin Onwiler

**Reported:**  
09/18/24 07:54

**24968-FL-01-E-5-20240910**  
**2409129-21 (Soil)**

**Summit Scientific**

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

Date Sampled: **09/10/24 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	<b>62.4</b>	0.0500	mg/L dry	1	BHI0417	09/12/24	09/13/24	EPA 6020B	
Magnesium	<b>33.1</b>	0.0500	"	"	"	"	"	"	
Sodium	<b>208</b>	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **09/10/24 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	<b>5.30</b>	0.00100	units	1	BHI0503	09/16/24	09/16/24	Calculation	

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

Date Sampled: **09/10/24 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	<b>91.4</b>		%	1	BHI0324	09/11/24	09/11/24	Calculation	

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.*



ERM  
555 17th St  
Denver CO, 80202

Project: Chevron RBU - Ries 3-19

Project Number: UWRNE-A2718-ABN 0736294  
Project Manager: Justin Onwiler

**Reported:**  
09/18/24 07:54

**24968-FL-01-W-1-20240910**  
**2409129-22 (Soil)**

**Summit Scientific**

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

Date Sampled: **09/10/24 11:16**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	<b>188</b>	0.0500	mg/L dry	1	BHI0417	09/12/24	09/13/24	EPA 6020B	
Magnesium	<b>44.2</b>	0.0500	"	"	"	"	"	"	
Sodium	<b>17.3</b>	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **09/10/24 11:16**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	<b>0.295</b>	0.00100	units	1	BHI0503	09/16/24	09/16/24	Calculation	

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

Date Sampled: **09/10/24 11:16**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	<b>88.4</b>		%	1	BHI0324	09/11/24	09/11/24	Calculation	

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.*



ERM  
555 17th St  
Denver CO, 80202

Project: Chevron RBU - Ries 3-19

Project Number: UWRNE-A2718-ABN 0736294  
Project Manager: Justin Onwiler

**Reported:**  
09/18/24 07:54

**24968-FL-01-W-3-20240910**  
**2409129-23 (Soil)**

**Summit Scientific**

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

Date Sampled: **09/10/24 11:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	39.3	0.0500	mg/L dry	1	BHI0417	09/12/24	09/13/24	EPA 6020B	
Magnesium	21.3	0.0500	"	"	"	"	"	"	
Sodium	145	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **09/10/24 11:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	4.63	0.00100	units	1	BHI0503	09/16/24	09/16/24	Calculation	

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

Date Sampled: **09/10/24 11:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	94.9		%	1	BHI0324	09/11/24	09/11/24	Calculation	

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.*



ERM  
555 17th St  
Denver CO, 80202

Project: Chevron RBU - Ries 3-19  
Project Number: UWRNE-A2718-ABN 0736294  
Project Manager: Justin Onwiler

**Reported:**  
09/18/24 07:54

**24968-FL-01-W-5-20240910**  
**2409129-24 (Soil)**

**Summit Scientific**

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

Date Sampled: **09/10/24 11:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>85.8</b>	0.0500	mg/L dry	1	BHI0417	09/12/24	09/13/24	EPA 6020B	
<b>Magnesium</b>	<b>60.9</b>	0.0500	"	"	"	"	"	"	
<b>Sodium</b>	<b>206</b>	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **09/10/24 11:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Sodium Adsorption Ratio</b>	<b>4.16</b>	0.00100	units	1	BHI0503	09/16/24	09/16/24	Calculation	

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

Date Sampled: **09/10/24 11:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>% Solids</b>	<b>88.9</b>		%	1	BHI0324	09/11/24	09/11/24	Calculation	

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.*



ERM  
555 17th St  
Denver CO, 80202

Project: Chevron RBU - Ries 3-19

Project Number: UWRNE-A2718-ABN 0736294  
Project Manager: Justin Onwiler

**Reported:**  
09/18/24 07:54

**24968-FL-01-S-1-20240910**  
**2409129-25 (Soil)**

**Summit Scientific**

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

Date Sampled: **09/10/24 10:58**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	<b>147</b>	0.0500	mg/L dry	1	BHI0417	09/12/24	09/13/24	EPA 6020B	
Magnesium	<b>30.9</b>	0.0500	"	"	"	"	"	"	
Sodium	<b>76.8</b>	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **09/10/24 10:58**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	<b>1.50</b>	0.00100	units	1	BHI0503	09/16/24	09/16/24	Calculation	

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

Date Sampled: **09/10/24 10:58**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	<b>95.2</b>		%	1	BHI0324	09/11/24	09/11/24	Calculation	

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.*



ERM  
555 17th St  
Denver CO, 80202

Project: Chevron RBU - Ries 3-19

Project Number: UWRNE-A2718-ABN 0736294  
Project Manager: Justin Onwiler

**Reported:**  
09/18/24 07:54

**24968-FL-01-S-3-20240910**  
**2409129-26 (Soil)**

**Summit Scientific**

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

Date Sampled: **09/10/24 11:02**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	114	0.0500	mg/L dry	1	BHI0417	09/12/24	09/13/24	EPA 6020B	
Magnesium	122	0.0500	"	"	"	"	"	"	
Sodium	344	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **09/10/24 11:02**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	5.34	0.00100	units	1	BHI0503	09/16/24	09/16/24	Calculation	

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

Date Sampled: **09/10/24 11:02**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	92.6		%	1	BHI0324	09/11/24	09/11/24	Calculation	

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.*



ERM  
555 17th St  
Denver CO, 80202

Project: Chevron RBU - Ries 3-19  
Project Number: UWRNE-A2718-ABN 0736294  
Project Manager: Justin Onwiler

**Reported:**  
09/18/24 07:54

**24968-FL-01-S-5-20240910**

**2409129-27 (Soil)**

**Summit Scientific**

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

Date Sampled: **09/10/24 11:06**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	<b>107</b>	0.0500	mg/L dry	1	BHI0417	09/12/24	09/13/24	EPA 6020B	
Magnesium	<b>77.9</b>	0.0500	"	"	"	"	"	"	
Sodium	<b>212</b>	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **09/10/24 11:06**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	<b>3.80</b>	0.00100	units	1	BHI0503	09/16/24	09/16/24	Calculation	

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

Date Sampled: **09/10/24 11:06**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	<b>88.8</b>		%	1	BHI0324	09/11/24	09/11/24	Calculation	

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.*



ERM  
555 17th St  
Denver CO, 80202

Project: Chevron RBU - Ries 3-19  
Project Number: UWRNE-A2718-ABN 0736294  
Project Manager: Justin Onwiler

**Reported:**  
09/18/24 07:54

**24968-BG-04-4-20240910**  
**2409129-28 (Soil)**

**Summit Scientific**

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

Date Sampled: **09/10/24 11:02**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	55.2	0.0500	mg/L dry	1	BHI0417	09/12/24	09/13/24	EPA 6020B	
Magnesium	30.9	0.0500	"	"	"	"	"	"	
Sodium	84.5	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **09/10/24 11:02**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	2.26	0.00100	units	1	BHI0503	09/16/24	09/16/24	Calculation	

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

Date Sampled: **09/10/24 11:02**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	87.9		%	1	BHI0324	09/11/24	09/11/24	Calculation	

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.*



ERM  
555 17th St  
Denver CO, 80202

Project: Chevron RBU - Ries 3-19  
Project Number: UWRNE-A2718-ABN 0736294  
Project Manager: Justin Onwiler

**Reported:**  
09/18/24 07:54

**24968-BG-05-4-20240910**  
**2409129-29 (Soil)**

**Summit Scientific**

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

Date Sampled: **09/10/24 11:16**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	176	0.0500	mg/L dry	1	BHI0417	09/12/24	09/13/24	EPA 6020B	
Magnesium	210	0.0500	"	"	"	"	"	"	
Sodium	835	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **09/10/24 11:16**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	10.1	0.00100	units	1	BHI0503	09/16/24	09/16/24	Calculation	

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

Date Sampled: **09/10/24 11:16**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	86.7		%	1	BHI0324	09/11/24	09/11/24	Calculation	

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.*



ERM  
555 17th St  
Denver CO, 80202

Project: Chevron RBU - Ries 3-19  
Project Number: UWRNE-A2718-ABN 0736294  
Project Manager: Justin Onwiler

**Reported:**  
09/18/24 07:54

**24968-BG-06-4-20240910**  
**2409129-30 (Soil)**

**Summit Scientific**

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

Date Sampled: **09/10/24 10:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	<b>70.6</b>	0.0500	mg/L dry	1	BHI0417	09/12/24	09/13/24	EPA 6020B	
Magnesium	<b>45.3</b>	0.0500	"	"	"	"	"	"	
Sodium	<b>276</b>	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **09/10/24 10:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	<b>6.31</b>	0.00100	units	1	BHI0503	09/16/24	09/16/24	Calculation	

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

Date Sampled: **09/10/24 10:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	<b>92.1</b>		%	1	BHI0324	09/11/24	09/11/24	Calculation	

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.*



ERM  
555 17th St  
Denver CO, 80202

Project: Chevron RBU - Ries 3-19

Project Number: UWRNE-A2718-ABN 0736294  
Project Manager: Justin Onwiler

**Reported:**  
09/18/24 07:54

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

**Summit Scientific**

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

**Batch BHI0417 - General Preparation**

**Blank (BHI0417-BLK1)**

Prepared: 09/12/24 Analyzed: 09/13/24

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

**LCS (BHI0417-BS1)**

Prepared: 09/12/24 Analyzed: 09/13/24

Calcium	5.31	0.0500	mg/L wet	5.00	106	70-130				
Magnesium	5.30	0.0500	"	5.00	106	70-130				
Sodium	5.12	0.0500	"	5.00	102	70-130				

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.*



ERM  
555 17th St  
Denver CO, 80202

Project: Chevron RBU - Ries 3-19

Project Number: UWRNE-A2718-ABN 0736294  
Project Manager: Justin Onwiler

**Reported:**  
09/18/24 07:54

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

**Summit Scientific**

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

**Batch BHI0324 - General Preparation**

**Duplicate (BHI0324-DUP1)**

**Source: 2409018-05**

Prepared & Analyzed: 09/11/24

% Solids	83.1		%		83.5			0.484	20	
----------	------	--	---	--	------	--	--	-------	----	--

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.*



ERM  
555 17th St  
Denver CO, 80202

Project: Chevron RBU - Ries 3-19

Project Number: UWRNE-A2718-ABN 0736294  
Project Manager: Justin Onwiler

**Reported:**  
09/18/24 07:54

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

**Summit Scientific**

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

**Batch BHI0320 - General Preparation**

**LCS (BHI0320-BS1)**

Prepared & Analyzed: 09/11/24

pH 9.2 pH Units 9.18 99.9 95-105

**Duplicate (BHI0320-DUP1)**

Source: 2409129-01

Prepared & Analyzed: 09/11/24

pH 8.5 pH Units 8.5 0.236 20

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.*



ERM  
555 17th St  
Denver CO, 80202

Project: Chevron RBU - Ries 3-19  
Project Number: UWRNE-A2718-ABN 0736294  
Project Manager: Justin Onwiler

**Reported:**  
09/18/24 07:54

### 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