

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

February 14, 2025

Justin Onwiler

ERM

555 17th St

Denver, CO 80202

RE: Chevron RBU - Stephenson #6-31

Work Order #2412256

Enclosed are the results of analyses for samples received by Summit Scientific on 12/12/24 16:30. 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 - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
21787-BG-01-3-20241212	2412256-01	Soil	12/12/24 12:30	12/12/24 16:30
21787-BG-02-2-20241212	2412256-02	Soil	12/12/24 11:50	12/12/24 16:30
21787-BG-03-3-20241212	2412256-03	Soil	12/12/24 12:20	12/12/24 16:30
21787-BG-04-3-20241212	2412256-04	Soil	12/12/24 13:05	12/12/24 16:30
21787-BG-05-3-20241212	2412256-05	Soil	12/12/24 12:45	12/12/24 16:30
21787-BG-06-3-20241212	2412256-06	Soil	12/12/24 13:35	12/12/24 16:30
21787-BG-07-3-20241212	2412256-07	Soil	12/12/24 12:00	12/12/24 16:30
21787-FL-16-3-20241212	2412256-08	Soil	12/12/24 11:50	12/12/24 16:30
21787-FL-14-N-1-20241212	2412256-09	Soil	12/12/24 12:20	12/12/24 16:30
21787-FL-14-N-3-20241212	2412256-10	Soil	12/12/24 12:25	12/12/24 16:30
21787-FL-14-N-5-20241212	2412256-11	Soil	12/12/24 12:30	12/12/24 16:30
21787-FL-14-E-1-20241212	2412256-12	Soil	12/12/24 12:30	12/12/24 16:30
21787-FL-14-E-3-20241212	2412256-13	Soil	12/12/24 12:40	12/12/24 16:30
21787-FL-14-E-5-20241212	2412256-14	Soil	12/12/24 12:25	12/12/24 16:30
21787-FL-14-S-1-20241212	2412256-15	Soil	12/12/24 12:25	12/12/24 16:30
21787-FL-14-S-3-20241212	2412256-16	Soil	12/12/24 12:35	12/12/24 16:30
21787-FL-14-S-5-20241212	2412256-17	Soil	12/12/24 12:50	12/12/24 16:30
21787-FL-14-W-1-20241212	2412256-18	Soil	12/12/24 13:10	12/12/24 16:30
21787-FL-14-W-3-20241212	2412256-19	Soil	12/12/24 13:25	12/12/24 16:30
21787-FL-14-W-5-20241212	2412256-20	Soil	12/12/24 13:40	12/12/24 16:30
21787-FL-15-N-1-20241212	2412256-21	Soil	12/12/24 13:40	12/12/24 16:30
21787-FL-15-N-3-20241212	2412256-22	Soil	12/12/24 13:45	12/12/24 16:30
21787-FL-15-N-5-20241212	2412256-23	Soil	12/12/24 13:55	12/12/24 16:30
21787-FL-15-E-1-20241212	2412256-24	Soil	12/12/24 13:05	12/12/24 16:30
21787-FL-15-E-3-20241212	2412256-25	Soil	12/12/24 13:15	12/12/24 16:30
21787-FL-15-E-5-20241212	2412256-26	Soil	12/12/24 13:40	12/12/24 16:30
21787-FL-15-S-1-20241212	2412256-27	Soil	12/12/24 13:25	12/12/24 16:30

Summit Scientific

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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
21787-FL-15-S-3-20241212	2412256-28	Soil	12/12/24 13:30	12/12/24 16:30
21787-FL-15-S-5-20241212	2412256-29	Soil	12/12/24 13:35	12/12/24 16:30
21787-FL-15-W-1-20241212	2412256-30	Soil	12/12/24 13:35	12/12/24 16:30
21787-FL-15-W-3-20241212	2412256-31	Soil	12/12/24 13:45	12/12/24 16:30
21787-FL-15-W-5-20241212	2412256-32	Soil	12/12/24 13:50	12/12/24 16:30

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.

Client: ERM		Send Data To: Project Manager: Justin Onweiler		Send Invoice To: Company: Chevron - RBU	
Address: 1200 17th St Floor 10		E-Mail: justin.onweiler@erm.com		Project Name/Location: Chevron/Stephenson #6-31	
City/State/Zip: Denver, CO 80202				AFE#: UWRWEA1685ABN	
Phone: 303-968-2785		Project Name: Chevron RBU -Stephenson #6-31		PO/Billing Codes:	
Sampler Name: AM, NC, JM, KR, BS, GL, DT, CR, DS, LL, NL		Project Number: 0736294		Contact: Dan Peterson	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested						Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	Soil Suitability	Full List Organics	Inorganics					
1	21787-BG-01-3-20241212	12/12/2024	1230	2						x			x		x					
2	21787-BG-02-2-20241212	12/12/2024	1150	2						x			x		x					
3	21787-BG-03-3-20241212	12/12/2024	1220	2						x			x		x					
4	21787-BG-04-3-20241212	12/12/2024	1305	2						x			x		x					
5	21787-BG-05-3-20241212	12/12/2024	1245	2						x			x		x					
6	21787-BG-06-3-20241212	12/12/2024	1335	2						x			x		x					
7	21787-BG-07-3-20241212	12/12/2024	1200	2						x			x		x					
8	21787-FL-16-3-20241212	12/12/2024	1150	2						x			x	x	x					
9	21787-FL-14-N-1-20241212	12/12/2024	1220	2						x			x	x	x					
10	21787-FL-14-N-3-20241212	12/12/2024	1225	2						x			x	x	x					
11	21787-FL-14-N-5-20241212	12/12/2024	1230	2						x			x	x	x					
12	21787-FL-14-E-1-20241212	12/12/2024	1230	2						x			x	x	x					
13	21787-FL-14-E-3-20241212	12/12/2024	1240	2						x			x	x	x					
14	21787-FL-14-E-5-20241212	12/12/2024	1255	2						x			x	x	x					
15	21787-FL-14-S-1-20241212	12/12/2024	1225	2						x			x	x	x					
16	21787-FL-14-S-3-20241212	12/12/2024	1235	2						x			x	x	x					

Relinquished by: <u>NATHAN KUMARIV</u> Date/Time: <u>12-12-1630</u>	Received by: <u>[Signature]</u> Date/Time: <u>12/12/24 16:30</u>	TAT Business Days	Field DO	Notes:
		Same Day	Field EC	
Relinquished by: _____ Date/Time: _____	Received by: _____ Date/Time: _____	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>10.6</u>	Corrected Temperature _____	IR gun #: <u>2</u>	HNO3 lot #: _____	



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

Lab ID	Page 2 of 2
2412256.2	

Client: ERM		Send Data To:		Send Invoice To:	
Address: 1200 17th St Floor 10		Project Manager: Justin Onweiler		Company: Chevron - RBU	
City/State/Zip: Denver, CO 80202		E-Mail: justin.onweiler@erm.com		Project Name/Location: Chevron/Stephenson #6-31	
Phone: 303-968-2785		Project Name: Chevron RBU - Stephenson #6-31		AFE#: UWRWEA1685ABN	
Sampler Name: AM, NC, JM, KR, BS, GL, DT, CR, DS, LL, NL		Project Number: 0736294		PO/Billing Codes:	
				Contact: Dan Peterson	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested				Special Instructions		
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	Soil Suitability	Full List Organics	Inorganics				
1	21787-FL-14-S-5-20241212	12/12/2024	1250	2						x			x	x	x				
2	21787-FL-14-W-1-20241212	12/12/2024	1310	2						x			x	x	x				
3	21787-FL-14-W-3-20241212	12/12/2024	1325	2						x			x	x	x				
4	21787-FL-14-W-5-20241212	12/12/2024	1340	2						x			x	x	x				
5	21787-FL-15-N-1-20241212	12/12/2024	1340	2						x			x	x	x				
6	21787-FL-15-N-3-20241212	12/12/2024	1345	2						x			x	x	x				
7	21787-FL-15-N-5-20241212	12/12/2024	1355	2						x			x	x	x				
8	21787-FL-15-E-1-20241212	12/12/2024	1305	2						x			x	x	x				
9	21787-FL-15-E-3-20241212	12/12/2024	1315	2						x			x	x	x				
10	21787-FL-15-E-5-20241212	12/12/2024	1340	2						x			x	x	x				
11	21787-FL-15-S-1-20241212	12/12/2024	1325	2						x			x	x	x				
12	21787-FL-15-S-3-20241212	12/12/2024	1330	2						x			x	x	x				
13	21787-FL-15-S-5-20241212	12/12/2024	1335	2						x			x	x	x				
14	21787-FL-15-W-1-20241212	12/12/2024	1335	2						x			x	x	x				
15	21787-FL-15-W-3-20241212	12/12/2024	1345	2						x			x	x	x				
16	21787-FL-15-W-5-20241212	12/12/2024	1350	2						x			x	x	x				

Relinquished by: <u>NATHAN CHAMPIN</u> Date/Time: <u>12-12-24 11:30</u>	Received by: <u>[Signature]</u> Date/Time: <u>12/12/24 16:30</u>	TAT Business Days	Field DO	Notes:
		Same Day	Field EC	
Relinquished by: _____ Date/Time: _____	Received by: _____ Date/Time: _____	1 Day	Field ORP	
		2 Days	Field pH	
Relinquished by: _____ Date/Time: _____	Received by: _____ Date/Time: _____	3 Days	Field Temp.	
		Standard	Field Turb. <input checked="" type="checkbox"/>	
Temperature Upon Receipt: <u>10.6</u>	Corrected Temperature _____	IR gun #: <u>2</u>	HNO3 lot #: _____	

S₂

Sample Receipt Checklist

S2 Work Order# 2118256

Client: ERM Client Project ID: Chevron RBUI-Stephenson #6-31

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

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

Temp (°C) 10.6 Thermometer # a

	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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	some sample times did not match
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):

sample #2 labeled BG-02-2 with different time

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

Control Form #: SRC-001

AS
Custodian Printed Name

12/12/04
Date/Time



ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-BG-01-3-20241212

2412256-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/12/24 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIB0170	02/05/25	02/08/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **12/12/24 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	6.27	0.200	mg/kg dry	1	BIB0206	02/05/25	02/12/25	EPA 6020B	
Barium	111	0.400	"	"	"	"	"	"	
Cadmium	0.330	0.200	"	"	"	"	"	"	
Copper	7.26	0.400	"	"	"	"	"	"	
Lead	12.4	0.200	"	"	"	"	"	"	
Nickel	8.81	0.400	"	"	"	"	"	"	
Silver	0.0933	0.0200	"	"	"	"	"	"	
Zinc	30.9	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **12/12/24 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA0378	01/09/25	01/13/25	EPA 7196A	

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

Date Sampled: **12/12/24 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	18.2	0.0500	mg/L dry	1	BIA0292	01/08/25	01/16/25	EPA 6020B	
Magnesium	7.15	0.0500	"	"	"	"	"	"	
Sodium	43.3	0.0500	"	"	"	"	"	"	

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Project Number: UWRWE-A1685-ABN 0736294
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Reported:
02/14/25 09:08

21787-BG-01-3-20241212
2412256-01 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **12/12/24 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.18	0.00100	units	1	BIA0758	01/16/25	01/16/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/12/24 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.5		%	1	BIA0213	01/07/25	01/07/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/12/24 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.422	0.0100	mmhos/cm	1	BIA0282	01/08/25	01/10/25	EPA 120.1	

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

Date Sampled: **12/12/24 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.90		pH Units	1	BIA0269	01/08/25	01/10/25	EPA 9045D	

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02/14/25 09:08

21787-BG-02-2-20241212
2412256-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/12/24 11:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIB0170	02/05/25	02/08/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **12/12/24 11:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.47	0.200	mg/kg dry	1	BIB0206	02/05/25	02/12/25	EPA 6020B	
Barium	58.9	0.400	"	"	"	"	"	"	
Cadmium	0.243	0.200	"	"	"	"	"	"	
Copper	3.69	0.400	"	"	"	"	"	"	
Lead	7.89	0.200	"	"	"	"	"	"	
Nickel	5.05	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	29.4	0.400	"	"	"	"	"	"	
Selenium	0.367	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **12/12/24 11:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA0378	01/09/25	01/13/25	EPA 7196A	

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

Date Sampled: **12/12/24 11:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	479	0.0500	mg/L dry	1	BIA0292	01/08/25	01/16/25	EPA 6020B	
Magnesium	579	0.0500	"	"	"	"	"	"	
Sodium	1140	0.0500	"	"	"	"	"	"	

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Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-BG-02-2-20241212
2412256-02 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **12/12/24 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	8.29	0.00100	units	1	BIA0758	01/16/25	01/16/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/12/24 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.2		%	1	BIA0213	01/07/25	01/07/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/12/24 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	12.3	0.0100	mmhos/cm	1	BIA0282	01/08/25	01/10/25	EPA 120.1	

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

Date Sampled: **12/12/24 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.36		pH Units	1	BIA0269	01/08/25	01/10/25	EPA 9045D	

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Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-BG-03-3-20241212
2412256-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/12/24 12:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIB0170	02/05/25	02/08/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **12/12/24 12:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	4.03	0.200	mg/kg dry	1	BIB0206	02/05/25	02/12/25	EPA 6020B	
Barium	74.4	0.400	"	"	"	"	"	"	
Cadmium	0.211	0.200	"	"	"	"	"	"	
Copper	4.14	0.400	"	"	"	"	"	"	
Lead	6.39	0.200	"	"	"	"	"	"	
Nickel	5.13	0.400	"	"	"	"	"	"	
Silver	0.0271	0.0200	"	"	"	"	"	"	
Zinc	17.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **12/12/24 12:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA0378	01/09/25	01/13/25	EPA 7196A	

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

Date Sampled: **12/12/24 12:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	46.2	0.0500	mg/L dry	1	BIA0292	01/08/25	01/16/25	EPA 6020B	
Magnesium	7.31	0.0500	"	"	"	"	"	"	
Sodium	28.1	0.0500	"	"	"	"	"	"	

Summit Scientific

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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-BG-03-3-20241212
2412256-03 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **12/12/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.01	0.00100	units	1	BIA0758	01/16/25	01/16/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/12/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.6		%	1	BIA0213	01/07/25	01/07/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/12/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.305	0.0100	mmhos/cm	1	BIA0282	01/08/25	01/10/25	EPA 120.1	

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

Date Sampled: **12/12/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.69		pH Units	1	BIA0269	01/08/25	01/10/25	EPA 9045D	

Summit Scientific

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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-BG-04-3-20241212
2412256-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/12/24 13:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIB0170	02/05/25	02/08/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **12/12/24 13:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	5.81	0.200	mg/kg dry	1	BIB0206	02/05/25	02/12/25	EPA 6020B	
Barium	126	0.400	"	"	"	"	"	"	
Cadmium	0.389	0.200	"	"	"	"	"	"	
Copper	6.68	0.400	"	"	"	"	"	"	
Lead	9.41	0.200	"	"	"	"	"	"	
Nickel	7.93	0.400	"	"	"	"	"	"	
Silver	0.0715	0.0200	"	"	"	"	"	"	
Zinc	24.8	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **12/12/24 13:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA0378	01/09/25	01/13/25	EPA 7196A	

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

Date Sampled: **12/12/24 13:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	148	0.0500	mg/L dry	1	BIA0292	01/08/25	01/16/25	EPA 6020B	
Magnesium	52.3	0.0500	"	"	"	"	"	"	
Sodium	57.8	0.0500	"	"	"	"	"	"	

Summit Scientific

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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-BG-04-3-20241212
2412256-04 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **12/12/24 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.04	0.00100	units	1	BIA0758	01/16/25	01/16/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/12/24 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.8		%	1	BIA0213	01/07/25	01/07/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/12/24 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.51	0.0100	mmhos/cm	1	BIA0282	01/08/25	01/10/25	EPA 120.1	

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

Date Sampled: **12/12/24 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.96		pH Units	1	BIA0269	01/08/25	01/10/25	EPA 9045D	

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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-BG-05-3-20241212
2412256-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/12/24 12:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIB0170	02/05/25	02/08/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **12/12/24 12:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	4.14	0.200	mg/kg dry	1	BIB0206	02/05/25	02/12/25	EPA 6020B	
Barium	58.3	0.400	"	"	"	"	"	"	
Cadmium	0.220	0.200	"	"	"	"	"	"	
Copper	5.10	0.400	"	"	"	"	"	"	
Lead	7.78	0.200	"	"	"	"	"	"	
Nickel	6.16	0.400	"	"	"	"	"	"	
Silver	0.0474	0.0200	"	"	"	"	"	"	
Zinc	22.8	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **12/12/24 12:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA0378	01/09/25	01/13/25	EPA 7196A	

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

Date Sampled: **12/12/24 12:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	22.8	0.0500	mg/L dry	1	BIA0292	01/08/25	01/16/25	EPA 6020B	
Magnesium	8.36	0.0500	"	"	"	"	"	"	
Sodium	17.1	0.0500	"	"	"	"	"	"	

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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-BG-05-3-20241212
2412256-05 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **12/12/24 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.779	0.00100	units	1	BIA0758	01/16/25	01/16/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/12/24 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.6		%	1	BIA0213	01/07/25	01/07/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/12/24 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.298	0.0100	mmhos/cm	1	BIA0282	01/08/25	01/10/25	EPA 120.1	

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

Date Sampled: **12/12/24 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.96		pH Units	1	BIA0269	01/08/25	01/10/25	EPA 9045D	

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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-BG-06-3-20241212
2412256-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/12/24 13:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIB0170	02/05/25	02/08/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **12/12/24 13:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	5.09	0.200	mg/kg dry	1	BIB0206	02/05/25	02/12/25	EPA 6020B	
Barium	91.4	0.400	"	"	"	"	"	"	
Cadmium	0.355	0.200	"	"	"	"	"	"	
Copper	7.25	0.400	"	"	"	"	"	"	
Lead	11.2	0.200	"	"	"	"	"	"	
Nickel	7.57	0.400	"	"	"	"	"	"	
Silver	0.0458	0.0200	"	"	"	"	"	"	
Zinc	27.8	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **12/12/24 13:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA0378	01/09/25	01/13/25	EPA 7196A	

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

Date Sampled: **12/12/24 13:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	98.6	0.0500	mg/L dry	1	BIA0292	01/08/25	01/16/25	EPA 6020B	
Magnesium	32.9	0.0500	"	"	"	"	"	"	
Sodium	74.0	0.0500	"	"	"	"	"	"	

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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-BG-06-3-20241212
2412256-06 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **12/12/24 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.65	0.00100	units	1	BIA0758	01/16/25	01/16/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/12/24 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.7		%	1	BIA0213	01/07/25	01/07/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/12/24 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.18	0.0100	mmhos/cm	1	BIA0282	01/08/25	01/10/25	EPA 120.1	

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

Date Sampled: **12/12/24 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.72		pH Units	1	BIA0269	01/08/25	01/10/25	EPA 9045D	

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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-BG-07-3-20241212
2412256-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	3.30	2.00	mg/L	1	BIB0170	02/05/25	02/08/25	EPA 6020B	

Total Metals by EPA 6020B

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	5.23	0.200	mg/kg dry	1	BIB0206	02/05/25	02/12/25	EPA 6020B	
Barium	269	0.400	"	"	"	"	"	"	
Cadmium	0.322	0.200	"	"	"	"	"	"	
Copper	6.95	0.400	"	"	"	"	"	"	
Lead	12.0	0.200	"	"	"	"	"	"	
Nickel	5.97	0.400	"	"	"	"	"	"	
Silver	0.0506	0.0200	"	"	"	"	"	"	
Zinc	26.8	0.400	"	"	"	"	"	"	
Selenium	0.285	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA0378	01/09/25	01/13/25	EPA 7196A	

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

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	58.6	0.0500	mg/L dry	1	BIA0292	01/08/25	01/16/25	EPA 6020B	
Magnesium	249	0.0500	"	"	"	"	"	"	
Sodium	961	0.0500	"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-BG-07-3-20241212
2412256-07 (Soil)

Summit Scientific

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	12.2	0.00100	units	1	BIA0758	01/16/25	01/16/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.4		%	1	BIA0213	01/07/25	01/07/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	7.37	0.0100	mmhos/cm	1	BIA0282	01/08/25	01/10/25	EPA 120.1	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.76		pH Units	1	BIA0269	01/08/25	01/10/25	EPA 9045D	

Summit Scientific

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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-FL-16-3-20241212
2412256-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/12/24 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHL1141	12/23/24	12/31/24	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: **12/12/24 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0392	98.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0383	95.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0400	100 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/12/24 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHL1153	12/23/24	01/02/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/12/24 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	9.59	76.7 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-FL-16-3-20241212
2412256-08 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/12/24 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHL1111	12/23/24	12/28/24	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: **12/12/24 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0242	72.7 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0236	70.8 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/12/24 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIB0170	02/05/25	02/08/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **12/12/24 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-FL-16-3-20241212
2412256-08 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.71	0.200	mg/kg dry	1	BIB0206	02/05/25	02/12/25	EPA 6020B	
Barium	122	0.400	"	"	"	"	"	"	
Cadmium	0.211	0.200	"	"	"	"	"	"	
Copper	4.53	0.400	"	"	"	"	"	"	
Lead	6.20	0.200	"	"	"	"	"	"	
Nickel	4.96	0.400	"	"	"	"	"	"	
Silver	0.0335	0.0200	"	"	"	"	"	"	
Zinc	18.1	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 12/12/24 11:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA0378	01/09/25	01/13/25	EPA 7196A	

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

Date Sampled: 12/12/24 11:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	534	0.0500	mg/L dry	1	BIA0292	01/08/25	01/16/25	EPA 6020B	
Magnesium	130	0.0500	"	"	"	"	"	"	
Sodium	12.4	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 12/12/24 11:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.125	0.00100	units	1	BIA0758	01/16/25	01/16/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 12/12/24 11:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
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21787-FL-16-3-20241212
2412256-08 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

% Solids	87.8	%	1	BIA0213	01/07/25	01/07/25	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/12/24 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.48	0.0100	mmhos/cm	1	BIA0282	01/08/25	01/10/25	EPA 120.1	

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

Date Sampled: **12/12/24 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.12		pH Units	1	BIA0269	01/08/25	01/10/25	EPA 9045D	

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Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-FL-14-N-1-20241212
2412256-09 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/12/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHL1141	12/23/24	12/31/24	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: **12/12/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0378	94.5 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0386	96.4 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0376	94.1 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/12/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHL1153	12/23/24	01/02/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/12/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	8.71	69.7 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Denver CO, 80202

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Project Number: UWRWE-A1685-ABN 0736294
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Reported:
02/14/25 09:08

21787-FL-14-N-1-20241212
2412256-09 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/12/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHL1111	12/23/24	12/28/24	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: **12/12/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0211	63.3 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0181	54.4 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/12/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIB0170	02/05/25	02/08/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **12/12/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-FL-14-N-1-20241212
2412256-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	4.96	0.200	mg/kg dry	1	BIB0206	02/05/25	02/12/25	EPA 6020B	
Barium	205	0.400	"	"	"	"	"	"	
Cadmium	0.320	0.200	"	"	"	"	"	"	
Copper	12.5	0.400	"	"	"	"	"	"	
Lead	16.6	0.200	"	"	"	"	"	"	
Nickel	4.40	0.400	"	"	"	"	"	"	
Silver	0.0986	0.0200	"	"	"	"	"	"	
Zinc	16.8	0.400	"	"	"	"	"	"	
Selenium	0.277	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 12/12/24 12:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA0378	01/09/25	01/13/25	EPA 7196A	

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

Date Sampled: 12/12/24 12:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	59.0	0.0500	mg/L dry	1	BIA0292	01/08/25	01/16/25	EPA 6020B	
Magnesium	14.7	0.0500	"	"	"	"	"	"	
Sodium	42.2	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 12/12/24 12:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.27	0.00100	units	1	BIA0758	01/16/25	01/16/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 12/12/24 12:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-FL-14-N-1-20241212
2412256-09 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	80.8	%	1	BIA0213	01/07/25	01/07/25	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/12/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.552	0.0100	mmhos/cm	1	BIA0282	01/08/25	01/10/25	EPA 120.1	

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

Date Sampled: **12/12/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.41		pH Units	1	BIA0269	01/08/25	01/10/25	EPA 9045D	

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ERM
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Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-FL-14-N-3-20241212
2412256-10 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/12/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHL1141	12/23/24	12/31/24	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: **12/12/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0378	94.4 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0381	95.3 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0390	97.6 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/12/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHL1153	12/23/24	01/03/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/12/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	10.5	84.2 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Denver CO, 80202

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Project Number: UWRWE-A1685-ABN 0736294
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Reported:
02/14/25 09:08

21787-FL-14-N-3-20241212
2412256-10 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/12/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHL1111	12/23/24	12/28/24	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: **12/12/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0204	61.2 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0168	50.4 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/12/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIB0170	02/05/25	02/08/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **12/12/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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555 17th St
Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-FL-14-N-3-20241212
2412256-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	7.37	0.200	mg/kg dry	1	BIB0206	02/05/25	02/12/25	EPA 6020B	
Barium	57.3	0.400	"	"	"	"	"	"	
Cadmium	0.435	0.200	"	"	"	"	"	"	
Copper	12.6	0.400	"	"	"	"	"	"	
Lead	20.0	0.200	"	"	"	"	"	"	
Nickel	8.87	0.400	"	"	"	"	"	"	
Silver	0.0529	0.0200	"	"	"	"	"	"	
Zinc	61.3	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 12/12/24 12:25

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA0378	01/09/25	01/13/25	EPA 7196A	

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

Date Sampled: 12/12/24 12:25

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	41.7	0.0500	mg/L dry	1	BIA0292	01/08/25	01/16/25	EPA 6020B	
Magnesium	21.4	0.0500	"	"	"	"	"	"	
Sodium	44.2	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 12/12/24 12:25

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.39	0.00100	units	1	BIA0758	01/16/25	01/16/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 12/12/24 12:25

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Reported:
02/14/25 09:08

21787-FL-14-N-3-20241212
2412256-10 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	88.6	%	1	BIA0213	01/07/25	01/07/25	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/12/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.672	0.0100	mmhos/cm	1	BIA0282	01/08/25	01/10/25	EPA 120.1	

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

Date Sampled: **12/12/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.43		pH Units	1	BIA0269	01/08/25	01/10/25	EPA 9045D	

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Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-FL-14-N-5-20241212
2412256-11 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/12/24 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHL1141	12/23/24	12/31/24	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: **12/12/24 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0374	93.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0386	96.5 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0384	95.9 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/12/24 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHL1153	12/23/24	01/03/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/12/24 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	9.59	76.7 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-FL-14-N-5-20241212
2412256-11 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/12/24 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHL1111	12/23/24	12/28/24	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: **12/12/24 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0200	60.1 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0188	56.5 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/12/24 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIB0170	02/05/25	02/08/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **12/12/24 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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555 17th St
Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-FL-14-N-5-20241212
2412256-11 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	3.27	0.200	mg/kg dry	1	BIB0206	02/05/25	02/12/25	EPA 6020B
Barium	332	0.400	"	"	"	"	"	"
Cadmium	0.352	0.200	"	"	"	"	"	"
Copper	12.5	0.400	"	"	"	"	"	"
Lead	22.6	0.200	"	"	"	"	"	"
Nickel	12.4	0.400	"	"	"	"	"	"
Silver	0.0480	0.0200	"	"	"	"	"	"
Zinc	55.9	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 12/12/24 12:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA0378	01/09/25	01/13/25	EPA 7196A	

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

Date Sampled: 12/12/24 12:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	347	0.0500	mg/L dry	1	BIA0292	01/08/25	01/16/25	EPA 6020B	
Magnesium	187	0.0500	"	"	"	"	"	"	
Sodium	217	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 12/12/24 12:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.33	0.00100	units	1	BIA0758	01/16/25	01/16/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 12/12/24 12:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Reported:
02/14/25 09:08

21787-FL-14-N-5-20241212
2412256-11 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

% Solids	86.4	%	1	BIA0213	01/07/25	01/07/25	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/12/24 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	4.09	0.0100	mmhos/cm	1	BIA0282	01/08/25	01/10/25	EPA 120.1	

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

Date Sampled: **12/12/24 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.02		pH Units	1	BIA0269	01/08/25	01/10/25	EPA 9045D	

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Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-FL-14-E-1-20241212
2412256-12 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/12/24 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHL1141	12/23/24	12/31/24	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: **12/12/24 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0376	94.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0389	97.3 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0383	95.8 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/12/24 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHL1153	12/23/24	01/03/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/12/24 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	10.2	81.8 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Denver CO, 80202

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Reported:
02/14/25 09:08

21787-FL-14-E-1-20241212
2412256-12 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/12/24 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHL1111	12/23/24	12/28/24	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: **12/12/24 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0196	58.7 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0166	49.7 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/12/24 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIB0170	02/05/25	02/08/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **12/12/24 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-FL-14-E-1-20241212
2412256-12 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	4.76	0.200	mg/kg dry	1	BIB0206	02/05/25	02/12/25	EPA 6020B
Barium	872	0.400	"	"	"	"	"	"
Cadmium	0.375	0.200	"	"	"	"	"	"
Copper	9.49	0.400	"	"	"	"	"	"
Lead	13.9	0.200	"	"	"	"	"	"
Nickel	5.67	0.400	"	"	"	"	"	"
Silver	0.0580	0.0200	"	"	"	"	"	"
Zinc	21.1	0.400	"	"	"	"	"	"
Selenium	0.328	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 12/12/24 12:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA0378	01/09/25	01/13/25	EPA 7196A	

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

Date Sampled: 12/12/24 12:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	74.2	0.0500	mg/L dry	1	BIA0292	01/08/25	01/16/25	EPA 6020B	
Magnesium	22.3	0.0500	"	"	"	"	"	"	
Sodium	54.9	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 12/12/24 12:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.44	0.00100	units	1	BIA0758	01/16/25	01/16/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 12/12/24 12:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Reported:
02/14/25 09:08

21787-FL-14-E-1-20241212
2412256-12 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

% Solids	84.2	%	1	BIA0213	01/07/25	01/07/25	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/12/24 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.804	0.0100	mmhos/cm	1	BIA0282	01/08/25	01/10/25	EPA 120.1	

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

Date Sampled: **12/12/24 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.30		pH Units	1	BIA0269	01/08/25	01/10/25	EPA 9045D	

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Reported:
02/14/25 09:08

21787-FL-14-E-3-20241212
2412256-13 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/12/24 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHL1141	12/23/24	12/31/24	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: **12/12/24 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0415	104 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0393	98.2 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0379	94.6 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/12/24 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHL1153	12/23/24	01/03/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/12/24 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	7.82	62.5 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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02/14/25 09:08

21787-FL-14-E-3-20241212
2412256-13 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/12/24 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHL1111	12/23/24	12/28/24	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: **12/12/24 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0118	35.4 %	40-140		"	"	"	"	S-02
Surrogate: Fluoranthene-d10	0.0110	33.1 %	40-140		"	"	"	"	S-02

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/12/24 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIB0170	02/05/25	02/08/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **12/12/24 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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02/14/25 09:08

21787-FL-14-E-3-20241212
2412256-13 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	2.91	0.200	mg/kg dry	1	BIB0206	02/05/25	02/12/25	EPA 6020B
Barium	41.2	0.400	"	"	"	"	"	"
Cadmium	0.366	0.200	"	"	"	"	"	"
Copper	11.4	0.400	"	"	"	"	"	"
Lead	20.1	0.200	"	"	"	"	"	"
Nickel	6.91	0.400	"	"	"	"	"	"
Silver	0.0824	0.0200	"	"	"	"	"	"
Zinc	29.7	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 12/12/24 12:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA0378	01/09/25	01/13/25	EPA 7196A	

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

Date Sampled: 12/12/24 12:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	624	0.0500	mg/L dry	1	BIA0292	01/08/25	01/16/25	EPA 6020B	
Magnesium	124	0.0500	"	"	"	"	"	"	
Sodium	87.7	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 12/12/24 12:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.839	0.00100	units	1	BIA0758	01/16/25	01/16/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 12/12/24 12:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Reported:
02/14/25 09:08

21787-FL-14-E-3-20241212
2412256-13 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	85.7	%	1	BIA0213	01/07/25	01/07/25	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/12/24 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.99	0.0100	mmhos/cm	1	BIA0282	01/08/25	01/10/25	EPA 120.1	

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

Date Sampled: **12/12/24 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.82		pH Units	1	BIA0269	01/08/25	01/10/25	EPA 9045D	

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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-FL-14-E-5-20241212
2412256-14 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/12/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHL1141	12/23/24	12/31/24	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: **12/12/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0373	93.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0388	96.9 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0381	95.3 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/12/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHL1153	12/23/24	01/03/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/12/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	11.6	93.2 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Reported:
02/14/25 09:08

21787-FL-14-E-5-20241212
2412256-14 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/12/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHL1111	12/23/24	12/28/24	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: **12/12/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0190	57.0 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0180	54.0 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/12/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIB0170	02/05/25	02/08/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **12/12/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-FL-14-E-5-20241212
2412256-14 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.32	0.200	mg/kg dry	1	BIB0206	02/05/25	02/12/25	EPA 6020B	
Barium	9.61	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.56	0.400	"	"	"	"	"	"	
Lead	9.46	0.200	"	"	"	"	"	"	
Nickel	6.66	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	29.4	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 12/12/24 12:25

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA0378	01/09/25	01/13/25	EPA 7196A	

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

Date Sampled: 12/12/24 12:25

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	49.7	0.0500	mg/L dry	1	BIA0292	01/08/25	01/16/25	EPA 6020B	
Magnesium	31.8	0.0500	"	"	"	"	"	"	
Sodium	97.4	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 12/12/24 12:25

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.65	0.00100	units	1	BIA0758	01/16/25	01/16/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Reported:
02/14/25 09:08

21787-FL-14-E-5-20241212
2412256-14 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/12/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.3		%	1	BIA0213	01/07/25	01/07/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/12/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.18	0.0100	mmhos/cm	1	BIA0282	01/08/25	01/10/25	EPA 120.1	

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

Date Sampled: **12/12/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.19		pH Units	1	BIA0269	01/08/25	01/10/25	EPA 9045D	

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Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-FL-14-S-1-20241212
2412256-15 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/12/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHL1141	12/23/24	12/31/24	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: **12/12/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0379	94.7 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0394	98.4 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0402	100 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/12/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHL1153	12/23/24	01/03/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/12/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	9.07	72.6 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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02/14/25 09:08

21787-FL-14-S-1-20241212
2412256-15 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/12/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHL1111	12/23/24	12/28/24	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: **12/12/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0160	48.1 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0157	47.1 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/12/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIB0170	02/05/25	02/08/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **12/12/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-FL-14-S-1-20241212
2412256-15 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	5.03	0.200	mg/kg dry	1	BIB0206	02/05/25	02/12/25	EPA 6020B	
Barium	101	0.400	"	"	"	"	"	"	
Cadmium	0.389	0.200	"	"	"	"	"	"	
Copper	9.45	0.400	"	"	"	"	"	"	
Lead	13.6	0.200	"	"	"	"	"	"	
Nickel	7.25	0.400	"	"	"	"	"	"	
Silver	0.0581	0.0200	"	"	"	"	"	"	
Zinc	32.2	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 12/12/24 12:25

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA0378	01/09/25	01/13/25	EPA 7196A	

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

Date Sampled: 12/12/24 12:25

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	42.3	0.0500	mg/L dry	1	BIA0292	01/08/25	01/16/25	EPA 6020B	
Magnesium	6.87	0.0500	"	"	"	"	"	"	
Sodium	11.6	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 12/12/24 12:25

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.436	0.00100	units	1	BIA0758	01/16/25	01/16/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 12/12/24 12:25

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Reported:
02/14/25 09:08

21787-FL-14-S-1-20241212
2412256-15 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

% Solids	82.6	%	1	BIA0213	01/07/25	01/07/25	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/12/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.241	0.0100	mmhos/cm	1	BIA0282	01/08/25	01/10/25	EPA 120.1	

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

Date Sampled: **12/12/24 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.47		pH Units	1	BIA0269	01/08/25	01/10/25	EPA 9045D	

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Reported:
02/14/25 09:08

21787-FL-14-S-3-20241212
2412256-16 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BHL1141	12/23/24	12/31/24	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: **12/12/24 12:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0384	95.9 %	50-150	"	"	"	"	"	
Surrogate: Toluene-d8	0.0394	98.4 %	50-150	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0396	99.1 %	50-150	"	"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BHL1153	12/23/24	01/03/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	8.06	64.5 %	30-150	"	"	"	"	"	

PAH by EPA Method 8270D SIM

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Reported:
02/14/25 09:08

21787-FL-14-S-3-20241212
2412256-16 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHL1111	12/23/24	12/28/24	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: **12/12/24 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0206	61.7 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0174	52.3 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIB0170	02/05/25	02/08/25	EPA 6020B	

Total Metals by EPA 6020B

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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555 17th St
Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-FL-14-S-3-20241212
2412256-16 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	5.60	0.200	mg/kg dry	1	BIB0207	02/05/25	02/13/25	EPA 6020B
Barium	191	0.400	"	"	"	"	"	"
Cadmium	0.442	0.200	"	"	"	"	"	"
Copper	15.9	0.400	"	"	"	"	"	"
Lead	13.6	0.200	"	"	"	"	"	"
Nickel	6.53	0.400	"	"	"	"	"	"
Silver	0.0803	0.0200	"	"	"	"	"	"
Zinc	56.8	0.400	"	"	"	"	"	"
Selenium	0.317	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 12/12/24 12:35

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA0378	01/09/25	01/13/25	EPA 7196A	

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

Date Sampled: 12/12/24 12:35

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	548	0.0500	mg/L dry	1	BIA0292	01/08/25	01/16/25	EPA 6020B	
Magnesium	73.0	0.0500	"	"	"	"	"	"	
Sodium	48.6	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 12/12/24 12:35

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.518	0.00100	units	1	BIA0758	01/16/25	01/16/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 12/12/24 12:35

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-FL-14-S-3-20241212
2412256-16 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	82.3	%	1	BIA0213	01/07/25	01/07/25	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.09	0.0100	mmhos/cm	1	BIA0282	01/08/25	01/10/25	EPA 120.1	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.71		pH Units	1	BIA0269	01/08/25	01/10/25	EPA 9045D	

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Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-FL-14-S-5-20241212
2412256-17 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/12/24 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHL1141	12/23/24	12/31/24	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: **12/12/24 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0376	93.9 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0387	96.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0395	98.7 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/12/24 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHL1153	12/23/24	01/03/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/12/24 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	11.3	90.4 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Reported:
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21787-FL-14-S-5-20241212
2412256-17 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **12/12/24 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHL1111	12/23/24	12/28/24	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: **12/12/24 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0198	59.5 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0174	52.1 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/12/24 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIB0170	02/05/25	02/08/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **12/12/24 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Chevron RBU - Stephenson #6-31
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Reported:
02/14/25 09:08

21787-FL-14-S-5-20241212
2412256-17 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.98	0.200	mg/kg dry	1	BIB0207	02/05/25	02/13/25	EPA 6020B	
Barium	16.4	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.12	0.400	"	"	"	"	"	"	
Lead	5.97	0.200	"	"	"	"	"	"	
Nickel	5.12	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	50.0	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 12/12/24 12:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA0378	01/09/25	01/13/25	EPA 7196A	

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

Date Sampled: 12/12/24 12:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	26.1	0.0500	mg/L dry	1	BIA0292	01/08/25	01/16/25	EPA 6020B	
Magnesium	28.5	0.0500	"	"	"	"	"	"	
Sodium	305	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 12/12/24 12:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	9.82	0.00100	units	1	BIA0758	01/16/25	01/16/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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02/14/25 09:08

21787-FL-14-S-5-20241212
2412256-17 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/12/24 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.0		%	1	BIA0213	01/07/25	01/07/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/12/24 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.26	0.0100	mmhos/cm	1	BIA0282	01/08/25	01/10/25	EPA 120.1	

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

Date Sampled: **12/12/24 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.71		pH Units	1	BIA0269	01/08/25	01/10/25	EPA 9045D	

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02/14/25 09:08

21787-FL-14-W-1-20241212
2412256-18 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/12/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHL1141	12/23/24	12/31/24	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: **12/12/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0415	104 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0400	99.9 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0371	92.7 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/12/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHL1153	12/23/24	01/03/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/12/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	7.48	59.9 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-FL-14-W-1-20241212
2412256-18 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **12/12/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHL1111	12/23/24	12/28/24	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: **12/12/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0192	57.5 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0161	48.4 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/12/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIB0170	02/05/25	02/08/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **12/12/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Reported:
02/14/25 09:08

21787-FL-14-W-1-20241212
2412256-18 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	2.25	0.200	mg/kg dry	1	BIB0207	02/05/25	02/13/25	EPA 6020B
Barium	1610	0.400	"	"	"	"	"	"
Cadmium	0.413	0.200	"	"	"	"	"	"
Copper	13.8	0.400	"	"	"	"	"	"
Lead	11.6	0.200	"	"	"	"	"	"
Nickel	3.36	0.400	"	"	"	"	"	"
Silver	0.0666	0.0200	"	"	"	"	"	"
Zinc	26.5	0.400	"	"	"	"	"	"
Selenium	0.269	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 12/12/24 13:10

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA0378	01/09/25	01/13/25	EPA 7196A	

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

Date Sampled: 12/12/24 13:10

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	42.2	0.0500	mg/L dry	1	BIA0292	01/08/25	01/16/25	EPA 6020B	
Magnesium	10.9	0.0500	"	"	"	"	"	"	
Sodium	34.3	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 12/12/24 13:10

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.22	0.00100	units	1	BIA0758	01/16/25	01/16/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 12/12/24 13:10

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Reported:
02/14/25 09:08

21787-FL-14-W-1-20241212
2412256-18 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

% Solids	87.4	%	1	BIA0213	01/07/25	01/07/25	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/12/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.475	0.0100	mmhos/cm	1	BIA0282	01/08/25	01/10/25	EPA 120.1	

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

Date Sampled: **12/12/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.58		pH Units	1	BIA0269	01/08/25	01/10/25	EPA 9045D	

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Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-FL-14-W-3-20241212
2412256-19 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/12/24 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHL1141	12/23/24	12/31/24	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: **12/12/24 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0378	94.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0388	97.0 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0392	97.9 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/12/24 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHL1153	12/23/24	01/03/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/12/24 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	7.10	56.8 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Reported:
02/14/25 09:08

21787-FL-14-W-3-20241212
2412256-19 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/12/24 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHL1111	12/23/24	12/28/24	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: **12/12/24 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0156	46.8 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0116	34.8 %	40-140		"	"	"	"	S-02

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/12/24 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIB0171	02/05/25	02/07/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **12/12/24 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-FL-14-W-3-20241212
2412256-19 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	4.21	0.200	mg/kg dry	1	BIB0207	02/05/25	02/13/25	EPA 6020B	
Barium	21.5	0.400	"	"	"	"	"	"	
Cadmium	0.341	0.200	"	"	"	"	"	"	
Copper	18.0	0.400	"	"	"	"	"	"	
Lead	16.4	0.200	"	"	"	"	"	"	
Nickel	4.81	0.400	"	"	"	"	"	"	
Silver	0.0886	0.0200	"	"	"	"	"	"	
Zinc	63.9	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 12/12/24 13:25

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA0378	01/09/25	01/13/25	EPA 7196A	

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

Date Sampled: 12/12/24 13:25

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	32.3	0.0500	mg/L dry	1	BIA0292	01/08/25	01/16/25	EPA 6020B	
Magnesium	23.9	0.0500	"	"	"	"	"	"	
Sodium	66.3	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 12/12/24 13:25

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.16	0.00100	units	1	BIA0758	01/16/25	01/16/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 12/12/24 13:25

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-FL-14-W-3-20241212
2412256-19 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	83.5	%	1	BIA0213	01/07/25	01/07/25	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/12/24 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.717	0.0100	mmhos/cm	1	BIA0282	01/08/25	01/10/25	EPA 120.1	

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

Date Sampled: **12/12/24 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.59		pH Units	1	BIA0269	01/08/25	01/10/25	EPA 9045D	

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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-FL-14-W-5-20241212
2412256-20 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/12/24 13:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BHL1141	12/23/24	12/31/24	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: **12/12/24 13:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0383	95.8 %	50-150	"	"	"	"	"	
Surrogate: Toluene-d8	0.0389	97.4 %	50-150	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0390	97.4 %	50-150	"	"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/12/24 13:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BHL1153	12/23/24	01/03/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/12/24 13:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	8.58	68.6 %	30-150	"	"	"	"	"	

PAH by EPA Method 8270D SIM

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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-FL-14-W-5-20241212
2412256-20 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/12/24 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHL1111	12/23/24	12/28/24	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: **12/12/24 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0207	62.1 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0168	50.4 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/12/24 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	2.56	2.00	mg/L	1	BIB0171	02/05/25	02/08/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **12/12/24 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-FL-14-W-5-20241212
2412256-20 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	2.75	0.200	mg/kg dry	1	BIB0207	02/05/25	02/13/25	EPA 6020B
Barium	25.5	0.400	"	"	"	"	"	"
Cadmium	0.361	0.200	"	"	"	"	"	"
Copper	26.9	0.400	"	"	"	"	"	"
Lead	19.9	0.200	"	"	"	"	"	"
Nickel	6.86	0.400	"	"	"	"	"	"
Silver	0.0875	0.0200	"	"	"	"	"	"
Zinc	80.6	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 12/12/24 13:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA0378	01/09/25	01/13/25	EPA 7196A	

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

Date Sampled: 12/12/24 13:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	161	0.0500	mg/L dry	1	BIA0292	01/08/25	01/16/25	EPA 6020B	
Magnesium	76.1	0.0500	"	"	"	"	"	"	
Sodium	116	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 12/12/24 13:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.89	0.00100	units	1	BIA0758	01/16/25	01/16/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 12/12/24 13:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-FL-14-W-5-20241212
2412256-20 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	81.2	%	1	BIA0213	01/07/25	01/07/25	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/12/24 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.87	0.0100	mmhos/cm	1	BIA0282	01/08/25	01/10/25	EPA 120.1	

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

Date Sampled: **12/12/24 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.00		pH Units	1	BIA0269	01/08/25	01/10/25	EPA 9045D	

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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-FL-15-N-1-20241212
2412256-21 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/12/24 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHL1141	12/23/24	12/31/24	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: **12/12/24 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0395	98.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0393	98.2 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0397	99.3 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/12/24 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHL1153	12/23/24	01/03/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/12/24 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	8.99	71.9 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-FL-15-N-1-20241212
2412256-21 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/12/24 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHL1111	12/23/24	12/28/24	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: **12/12/24 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0208	62.5 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0168	50.5 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/12/24 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIB0171	02/05/25	02/08/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **12/12/24 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-FL-15-N-1-20241212
2412256-21 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	4.74	0.200	mg/kg dry	1	BIB0207	02/05/25	02/13/25	EPA 6020B	
Barium	104	0.400	"	"	"	"	"	"	
Cadmium	0.383	0.200	"	"	"	"	"	"	
Copper	9.22	0.400	"	"	"	"	"	"	
Lead	9.89	0.200	"	"	"	"	"	"	
Nickel	6.35	0.400	"	"	"	"	"	"	
Silver	0.0557	0.0200	"	"	"	"	"	"	
Zinc	40.3	0.400	"	"	"	"	"	"	
Selenium	0.261	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 12/12/24 13:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA0424	01/10/25	01/14/25	EPA 7196A	

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

Date Sampled: 12/12/24 13:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	38.5	0.0500	mg/L dry	1	BIA0292	01/08/25	01/16/25	EPA 6020B	
Magnesium	9.40	0.0500	"	"	"	"	"	"	
Sodium	19.8	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 12/12/24 13:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.742	0.00100	units	1	BIA0758	01/16/25	01/16/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 12/12/24 13:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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ERM
555 17th St
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Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-FL-15-N-1-20241212
2412256-21 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	86.9	%	1	BIA0213	01/07/25	01/07/25	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/12/24 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.414	0.0100	mmhos/cm	1	BIA0282	01/08/25	01/10/25	EPA 120.1	

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

Date Sampled: **12/12/24 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.95		pH Units	1	BIA0269	01/08/25	01/10/25	EPA 9045D	

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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-FL-15-N-3-20241212
2412256-22 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/12/24 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHL1141	12/23/24	12/31/24	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: **12/12/24 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0380	95.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0385	96.3 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0390	97.4 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/12/24 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHL1153	12/23/24	01/03/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/12/24 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	11.0	88.1 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-FL-15-N-3-20241212
2412256-22 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/12/24 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHL1111	12/23/24	12/28/24	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: **12/12/24 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0255	76.4 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0233	69.9 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/12/24 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIB0171	02/05/25	02/08/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **12/12/24 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-FL-15-N-3-20241212
2412256-22 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	4.33	0.200	mg/kg dry	1	BIB0207	02/05/25	02/13/25	EPA 6020B	
Barium	96.5	0.400	"	"	"	"	"	"	
Cadmium	0.264	0.200	"	"	"	"	"	"	
Copper	7.15	0.400	"	"	"	"	"	"	
Lead	8.10	0.200	"	"	"	"	"	"	
Nickel	6.50	0.400	"	"	"	"	"	"	
Silver	0.0558	0.0200	"	"	"	"	"	"	
Zinc	35.0	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 12/12/24 13:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA0424	01/10/25	01/14/25	EPA 7196A	

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

Date Sampled: 12/12/24 13:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	20.0	0.0500	mg/L dry	1	BIA0293	01/08/25	01/17/25	EPA 6020B	
Magnesium	6.27	0.0500	"	"	"	"	"	"	
Sodium	29.7	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 12/12/24 13:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.48	0.00100	units	1	BIA0889	01/20/25	01/20/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 12/12/24 13:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-FL-15-N-3-20241212
2412256-22 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	92.4	%	1	BIA0213	01/07/25	01/07/25	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/12/24 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.315	0.0100	mmhos/cm	1	BIA0285	01/08/25	01/10/25	EPA 120.1	

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

Date Sampled: **12/12/24 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.08		pH Units	1	BIA0270	01/08/25	01/10/25	EPA 9045D	

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Denver CO, 80202

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Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-FL-15-N-5-20241212
2412256-23 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/12/24 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHL1141	12/23/24	12/31/24	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: **12/12/24 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0391	97.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0392	98.1 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0397	99.3 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/12/24 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHL1153	12/23/24	01/03/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/12/24 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	12.3	98.2 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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555 17th St
Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-FL-15-N-5-20241212
2412256-23 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/12/24 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHL1111	12/23/24	12/28/24	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: **12/12/24 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0223	66.9 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0193	57.9 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/12/24 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIB0171	02/05/25	02/08/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **12/12/24 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-FL-15-N-5-20241212
2412256-23 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	1.93	0.200	mg/kg dry	1	BIB0207	02/05/25	02/13/25	EPA 6020B
Barium	217	0.400	"	"	"	"	"	"
Cadmium	0.318	0.200	"	"	"	"	"	"
Copper	7.99	0.400	"	"	"	"	"	"
Lead	6.79	0.200	"	"	"	"	"	"
Nickel	6.39	0.400	"	"	"	"	"	"
Silver	0.0344	0.0200	"	"	"	"	"	"
Zinc	33.2	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 12/12/24 13:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA0424	01/10/25	01/14/25	EPA 7196A	

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

Date Sampled: 12/12/24 13:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	104	0.0500	mg/L dry	1	BIA0293	01/08/25	01/17/25	EPA 6020B	
Magnesium	52.1	0.0500	"	"	"	"	"	"	
Sodium	120	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 12/12/24 13:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.40	0.00100	units	1	BIA0889	01/20/25	01/20/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 12/12/24 13:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-FL-15-N-5-20241212
2412256-23 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	91.9	%	1	BIA0213	01/07/25	01/07/25	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/12/24 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.37	0.0100	mmhos/cm	1	BIA0285	01/08/25	01/10/25	EPA 120.1	

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

Date Sampled: **12/12/24 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.27		pH Units	1	BIA0270	01/08/25	01/10/25	EPA 9045D	

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Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-FL-15-E-1-20241212
2412256-24 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/12/24 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHL1141	12/23/24	12/31/24	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: **12/12/24 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0391	97.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0386	96.5 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0392	97.9 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/12/24 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHL1153	12/23/24	01/03/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/12/24 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	8.03	64.2 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Denver CO, 80202

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Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-FL-15-E-1-20241212
2412256-24 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/12/24 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHL1111	12/23/24	12/28/24	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: **12/12/24 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0225	67.4 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0190	56.9 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/12/24 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIB0171	02/05/25	02/08/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **12/12/24 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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ERM
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Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-FL-15-E-1-20241212
2412256-24 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	5.10	0.200	mg/kg dry	1	BIB0207	02/05/25	02/13/25	EPA 6020B
Barium	120	0.400	"	"	"	"	"	"
Cadmium	0.422	0.200	"	"	"	"	"	"
Copper	10.1	0.400	"	"	"	"	"	"
Lead	10.5	0.200	"	"	"	"	"	"
Nickel	6.88	0.400	"	"	"	"	"	"
Silver	0.0580	0.0200	"	"	"	"	"	"
Zinc	45.5	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 12/12/24 13:05

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA0424	01/10/25	01/14/25	EPA 7196A	

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

Date Sampled: 12/12/24 13:05

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	18.7	0.0500	mg/L dry	1	BIA0293	01/08/25	01/17/25	EPA 6020B	
Magnesium	4.67	0.0500	"	"	"	"	"	"	
Sodium	7.04	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 12/12/24 13:05

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.377	0.00100	units	1	BIA0889	01/20/25	01/20/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 12/12/24 13:05

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-FL-15-E-1-20241212

2412256-24 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	86.3	%	1	BIA0213	01/07/25	01/07/25	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/12/24 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.192	0.0100	mmhos/cm	1	BIA0285	01/08/25	01/10/25	EPA 120.1	

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

Date Sampled: **12/12/24 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.37		pH Units	1	BIA0270	01/08/25	01/10/25	EPA 9045D	

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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-FL-15-E-3-20241212
2412256-25 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/12/24 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHL1141	12/23/24	12/31/24	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: **12/12/24 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0404	101 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0392	97.9 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0402	100 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/12/24 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHL1153	12/23/24	01/03/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/12/24 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	10.1	81.1 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Reported:
02/14/25 09:08

21787-FL-15-E-3-20241212
2412256-25 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/12/24 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHL1111	12/23/24	12/28/24	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: **12/12/24 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0274	82.3 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0250	75.0 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/12/24 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIB0171	02/05/25	02/08/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **12/12/24 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-FL-15-E-3-20241212
2412256-25 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	4.62	0.200	mg/kg dry	1	BIB0207	02/05/25	02/13/25	EPA 6020B	
Barium	73.0	0.400	"	"	"	"	"	"	
Cadmium	0.310	0.200	"	"	"	"	"	"	
Copper	8.45	0.400	"	"	"	"	"	"	
Lead	9.38	0.200	"	"	"	"	"	"	
Nickel	6.95	0.400	"	"	"	"	"	"	
Silver	0.0625	0.0200	"	"	"	"	"	"	
Zinc	40.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 12/12/24 13:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA0424	01/10/25	01/14/25	EPA 7196A	

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

Date Sampled: 12/12/24 13:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	14.6	0.0500	mg/L dry	1	BIA0293	01/08/25	01/17/25	EPA 6020B	
Magnesium	6.10	0.0500	"	"	"	"	"	"	
Sodium	30.4	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 12/12/24 13:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.69	0.00100	units	1	BIA0889	01/20/25	01/20/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 12/12/24 13:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-FL-15-E-3-20241212
2412256-25 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	89.3	%	1	BIA0213	01/07/25	01/07/25	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/12/24 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.304	0.0100	mmhos/cm	1	BIA0285	01/08/25	01/10/25	EPA 120.1	

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

Date Sampled: **12/12/24 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.19		pH Units	1	BIA0270	01/08/25	01/10/25	EPA 9045D	

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Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-FL-15-E-5-20241212
2412256-26 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/12/24 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHL1141	12/23/24	12/31/24	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: **12/12/24 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0403	101 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0386	96.5 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0386	96.5 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/12/24 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHL1153	12/23/24	01/03/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/12/24 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	9.86	78.9 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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555 17th St
Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-FL-15-E-5-20241212
2412256-26 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/12/24 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHL1111	12/23/24	12/28/24	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: **12/12/24 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0265	79.6 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0227	68.2 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/12/24 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIB0171	02/05/25	02/08/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **12/12/24 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-FL-15-E-5-20241212
2412256-26 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	3.22	0.200	mg/kg dry	1	BIB0207	02/05/25	02/13/25	EPA 6020B
Barium	240	0.400	"	"	"	"	"	"
Cadmium	0.481	0.200	"	"	"	"	"	"
Copper	14.5	0.400	"	"	"	"	"	"
Lead	12.2	0.200	"	"	"	"	"	"
Nickel	7.59	0.400	"	"	"	"	"	"
Silver	0.0422	0.0200	"	"	"	"	"	"
Zinc	53.8	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 12/12/24 13:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA0424	01/10/25	01/14/25	EPA 7196A	

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

Date Sampled: 12/12/24 13:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	204	0.0500	mg/L dry	1	BIA0293	01/08/25	01/17/25	EPA 6020B	
Magnesium	148	0.0500	"	"	"	"	"	"	
Sodium	259	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 12/12/24 13:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.37	0.00100	units	1	BIA0889	01/20/25	01/20/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 12/12/24 13:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Reported:
02/14/25 09:08

21787-FL-15-E-5-20241212
2412256-26 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	88.3	%	1	BIA0213	01/07/25	01/07/25	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/12/24 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.81	0.0100	mmhos/cm	1	BIA0285	01/08/25	01/10/25	EPA 120.1	

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

Date Sampled: **12/12/24 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.20		pH Units	1	BIA0270	01/08/25	01/10/25	EPA 9045D	

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Reported:
02/14/25 09:08

21787-FL-15-S-1-20241212
2412256-27 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/12/24 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHL1141	12/23/24	12/31/24	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: **12/12/24 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0394	98.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0392	98.0 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0380	94.9 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/12/24 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHL1153	12/23/24	01/03/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/12/24 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	9.92	79.4 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Reported:
02/14/25 09:08

21787-FL-15-S-1-20241212
2412256-27 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/12/24 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHL1111	12/23/24	12/28/24	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: **12/12/24 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0210	63.0 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0188	56.4 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/12/24 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIB0171	02/05/25	02/08/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **12/12/24 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-FL-15-S-1-20241212
2412256-27 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	4.63	0.200	mg/kg dry	1	BIB0207	02/05/25	02/13/25	EPA 6020B
Barium	103	0.400	"	"	"	"	"	"
Cadmium	0.366	0.200	"	"	"	"	"	"
Copper	8.97	0.400	"	"	"	"	"	"
Lead	9.36	0.200	"	"	"	"	"	"
Nickel	6.38	0.400	"	"	"	"	"	"
Silver	0.0438	0.0200	"	"	"	"	"	"
Zinc	36.8	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 12/12/24 13:25

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA0424	01/10/25	01/14/25	EPA 7196A	

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

Date Sampled: 12/12/24 13:25

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	20.8	0.0500	mg/L dry	1	BIA0293	01/08/25	01/17/25	EPA 6020B	
Magnesium	5.07	0.0500	"	"	"	"	"	"	
Sodium	12.7	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 12/12/24 13:25

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.648	0.00100	units	1	BIA0889	01/20/25	01/20/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 12/12/24 13:25

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-FL-15-S-1-20241212
2412256-27 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	88.7	%	1	BIA0213	01/07/25	01/07/25	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/12/24 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.237	0.0100	mmhos/cm	1	BIA0285	01/08/25	01/10/25	EPA 120.1	

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

Date Sampled: **12/12/24 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.55		pH Units	1	BIA0270	01/08/25	01/10/25	EPA 9045D	

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ERM
555 17th St
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Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-FL-15-S-3-20241212
2412256-28 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/12/24 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHL1142	12/23/24	12/30/24	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: **12/12/24 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0422	106 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0400	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0405	101 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/12/24 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHL1154	12/23/24	01/02/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/12/24 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	9.53	76.2 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Denver CO, 80202

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Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-FL-15-S-3-20241212
2412256-28 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/12/24 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHL1115	12/23/24	12/29/24	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: **12/12/24 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0218	65.3 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0216	64.9 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/12/24 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIB0171	02/05/25	02/08/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **12/12/24 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-FL-15-S-3-20241212
2412256-28 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	5.82	0.200	mg/kg dry	1	BIB0207	02/05/25	02/13/25	EPA 6020B
Barium	129	0.400	"	"	"	"	"	"
Cadmium	0.313	0.200	"	"	"	"	"	"
Copper	9.31	0.400	"	"	"	"	"	"
Lead	9.70	0.200	"	"	"	"	"	"
Nickel	7.19	0.400	"	"	"	"	"	"
Silver	0.0707	0.0200	"	"	"	"	"	"
Zinc	40.3	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 12/12/24 13:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA0424	01/10/25	01/14/25	EPA 7196A	

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

Date Sampled: 12/12/24 13:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	12.1	0.0500	mg/L dry	1	BIA0293	01/08/25	01/17/25	EPA 6020B	
Magnesium	3.72	0.0500	"	"	"	"	"	"	
Sodium	16.0	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 12/12/24 13:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.03	0.00100	units	1	BIA0889	01/20/25	01/20/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 12/12/24 13:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31
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Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-FL-15-S-3-20241212
2412256-28 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	90.4	%	1	BIA0213	01/07/25	01/07/25	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/12/24 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.187	0.0100	mmhos/cm	1	BIA0285	01/08/25	01/10/25	EPA 120.1	

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

Date Sampled: **12/12/24 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.39		pH Units	1	BIA0270	01/08/25	01/10/25	EPA 9045D	

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Denver CO, 80202

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Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-FL-15-S-5-20241212
2412256-29 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/12/24 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHL1142	12/23/24	12/30/24	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: **12/12/24 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0412	103 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0399	99.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0393	98.3 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/12/24 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHL1154	12/23/24	01/02/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/12/24 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	9.56	76.5 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Reported:
02/14/25 09:08

21787-FL-15-S-5-20241212
2412256-29 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/12/24 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHL1115	12/23/24	12/29/24	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: **12/12/24 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0197	59.2 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0200	60.0 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/12/24 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIB0171	02/05/25	02/08/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **12/12/24 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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555 17th St
Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-FL-15-S-5-20241212
2412256-29 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	3.30	0.200	mg/kg dry	1	BIB0207	02/05/25	02/13/25	EPA 6020B
Barium	69.7	0.400	"	"	"	"	"	"
Cadmium	0.610	0.200	"	"	"	"	"	"
Copper	16.5	0.400	"	"	"	"	"	"
Lead	18.6	0.200	"	"	"	"	"	"
Nickel	7.15	0.400	"	"	"	"	"	"
Silver	0.0534	0.0200	"	"	"	"	"	"
Zinc	63.7	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 12/12/24 13:35

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA0424	01/10/25	01/14/25	EPA 7196A	

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

Date Sampled: 12/12/24 13:35

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	71.9	0.0500	mg/L dry	1	BIA0293	01/08/25	01/17/25	EPA 6020B	
Magnesium	26.6	0.0500	"	"	"	"	"	"	
Sodium	79.8	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 12/12/24 13:35

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.04	0.00100	units	1	BIA0889	01/20/25	01/20/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 12/12/24 13:35

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-FL-15-S-5-20241212
2412256-29 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	85.3	%	1	BIA0213	01/07/25	01/07/25	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/12/24 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.809	0.0100	mmhos/cm	1	BIA0285	01/08/25	01/10/25	EPA 120.1	

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

Date Sampled: **12/12/24 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.42		pH Units	1	BIA0270	01/08/25	01/10/25	EPA 9045D	

Summit Scientific

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555 17th St
Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-FL-15-W-1-20241212
2412256-30 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/12/24 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHL1142	12/23/24	12/30/24	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: **12/12/24 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0412	103 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0394	98.5 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0400	100 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/12/24 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHL1154	12/23/24	01/02/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/12/24 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	10.1	80.6 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-FL-15-W-1-20241212
2412256-30 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/12/24 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHL1115	12/23/24	12/29/24	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: **12/12/24 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0218	65.3 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0201	60.4 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/12/24 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIB0171	02/05/25	02/08/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **12/12/24 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-FL-15-W-1-20241212
2412256-30 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	5.04	0.200	mg/kg dry	1	BIB0207	02/05/25	02/13/25	EPA 6020B
Barium	109	0.400	"	"	"	"	"	"
Cadmium	0.406	0.200	"	"	"	"	"	"
Copper	10.1	0.400	"	"	"	"	"	"
Lead	10.4	0.200	"	"	"	"	"	"
Nickel	6.41	0.400	"	"	"	"	"	"
Silver	0.0546	0.0200	"	"	"	"	"	"
Zinc	43.3	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 12/12/24 13:35

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA0424	01/10/25	01/14/25	EPA 7196A	

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

Date Sampled: 12/12/24 13:35

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	45.1	0.0500	mg/L dry	1	BIA0293	01/08/25	01/17/25	EPA 6020B	
Magnesium	11.8	0.0500	"	"	"	"	"	"	
Sodium	31.8	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 12/12/24 13:35

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.09	0.00100	units	1	BIA0889	01/20/25	01/20/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 12/12/24 13:35

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Reported:
02/14/25 09:08

21787-FL-15-W-1-20241212
2412256-30 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	91.6	%	1	BIA0213	01/07/25	01/07/25	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/12/24 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.506	0.0100	mmhos/cm	1	BIA0285	01/08/25	01/10/25	EPA 120.1	

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

Date Sampled: **12/12/24 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.94		pH Units	1	BIA0270	01/08/25	01/10/25	EPA 9045D	

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Reported:
02/14/25 09:08

21787-FL-15-W-3-20241212
2412256-31 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/12/24 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHL1142	12/23/24	12/30/24	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: **12/12/24 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0425	106 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0398	99.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0397	99.2 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/12/24 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHL1154	12/23/24	01/02/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/12/24 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	10.4	83.0 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Denver CO, 80202

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Reported:
02/14/25 09:08

21787-FL-15-W-3-20241212
2412256-31 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/12/24 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHL1115	12/23/24	12/29/24	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: **12/12/24 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0178	53.5 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0171	51.4 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/12/24 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIB0171	02/05/25	02/08/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **12/12/24 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

21787-FL-15-W-3-20241212
2412256-31 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	5.39	0.200	mg/kg dry	1	BIB0207	02/05/25	02/13/25	EPA 6020B
Barium	142	0.400	"	"	"	"	"	"
Cadmium	0.402	0.200	"	"	"	"	"	"
Copper	9.71	0.400	"	"	"	"	"	"
Lead	9.66	0.200	"	"	"	"	"	"
Nickel	7.62	0.400	"	"	"	"	"	"
Silver	0.0655	0.0200	"	"	"	"	"	"
Zinc	40.9	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 12/12/24 13:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA0424	01/10/25	01/14/25	EPA 7196A	

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

Date Sampled: 12/12/24 13:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	101	0.0500	mg/L dry	1	BIA0293	01/08/25	01/17/25	EPA 6020B	
Magnesium	34.3	0.0500	"	"	"	"	"	"	
Sodium	112	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 12/12/24 13:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.46	0.00100	units	1	BIA0889	01/20/25	01/20/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 12/12/24 13:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Reported:
02/14/25 09:08

21787-FL-15-W-3-20241212
2412256-31 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	90.4	%	1	BIA0214	01/07/25	01/07/25	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/12/24 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.23	0.0100	mmhos/cm	1	BIA0285	01/08/25	01/10/25	EPA 120.1	

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

Date Sampled: **12/12/24 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.19		pH Units	1	BIA0270	01/08/25	01/10/25	EPA 9045D	

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Reported:
02/14/25 09:08

21787-FL-15-W-5-20241212
2412256-32 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/12/24 13:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BHL1142	12/23/24	12/30/24	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: **12/12/24 13:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0392	98.0 %	50-150	"	"	"	"	"	
Surrogate: Toluene-d8	0.0397	99.2 %	50-150	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0392	98.0 %	50-150	"	"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/12/24 13:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BHL1154	12/23/24	01/02/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/12/24 13:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	10.7	85.6 %	30-150	"	"	"	"	"	

PAH by EPA Method 8270D SIM

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21787-FL-15-W-5-20241212
2412256-32 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/12/24 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHL1115	12/23/24	12/29/24	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: **12/12/24 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0193	58.0 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0179	53.6 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/12/24 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIB0171	02/05/25	02/08/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **12/12/24 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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02/14/25 09:08

21787-FL-15-W-5-20241212
2412256-32 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	3.71	0.200	mg/kg dry	1	BIB0207	02/05/25	02/13/25	EPA 6020B
Barium	114	0.400	"	"	"	"	"	"
Cadmium	0.270	0.200	"	"	"	"	"	"
Copper	5.77	0.400	"	"	"	"	"	"
Lead	6.61	0.200	"	"	"	"	"	"
Nickel	5.52	0.400	"	"	"	"	"	"
Silver	0.0309	0.0200	"	"	"	"	"	"
Zinc	27.1	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 12/12/24 13:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA0424	01/10/25	01/14/25	EPA 7196A	

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

Date Sampled: 12/12/24 13:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	86.4	0.0500	mg/L dry	1	BIA0293	01/08/25	01/17/25	EPA 6020B	
Magnesium	44.8	0.0500	"	"	"	"	"	"	
Sodium	285	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 12/12/24 13:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.20	0.00100	units	1	BIA0889	01/20/25	01/20/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 12/12/24 13:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Reported:
02/14/25 09:08

21787-FL-15-W-5-20241212
2412256-32 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	93.4	%	1	BIA0214	01/07/25	01/07/25	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/12/24 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.15	0.0100	mmhos/cm	1	BIA0285	01/08/25	01/10/25	EPA 120.1	

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

Date Sampled: **12/12/24 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.48		pH Units	1	BIA0270	01/08/25	01/10/25	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 - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BHL1141 - EPA 5030 Soil MS

Blank (BHL1141-BLK1)

Prepared: 12/23/24 Analyzed: 12/31/24

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	0.0382		"	0.0400		95.5	50-150			
Surrogate: Toluene-d8	0.0388		"	0.0400		97.1	50-150			
Surrogate: 4-Bromofluorobenzene	0.0386		"	0.0400		96.4	50-150			

LCS (BHL1141-BS1)

Prepared: 12/23/24 Analyzed: 12/31/24

Benzene	0.0999	0.0020	mg/kg	0.100		99.9	70-130			
Toluene	0.0970	0.0050	"	0.100		97.0	70-130			
Ethylbenzene	0.101	0.0050	"	0.100		101	70-130			
m,p-Xylene	0.196	0.010	"	0.200		97.9	70-130			
o-Xylene	0.0995	0.0050	"	0.100		99.5	70-130			
1,2,4-Trimethylbenzene	0.0976	0.0050	"	0.100		97.6	70-130			
1,3,5-Trimethylbenzene	0.0973	0.0050	"	0.100		97.3	70-130			
Naphthalene	0.103	0.0038	"	0.100		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0374		"	0.0400		93.4	50-150			
Surrogate: Toluene-d8	0.0398		"	0.0400		99.4	50-150			
Surrogate: 4-Bromofluorobenzene	0.0393		"	0.0400		98.2	50-150			

Matrix Spike (BHL1141-MS1)

Source: 2412256-08

Prepared: 12/23/24 Analyzed: 12/31/24

Benzene	0.0952	0.0020	mg/kg	0.100	ND	95.2	70-130			
Toluene	0.0915	0.0050	"	0.100	ND	91.5	70-130			
Ethylbenzene	0.0938	0.0050	"	0.100	ND	93.8	70-130			
m,p-Xylene	0.180	0.010	"	0.200	ND	89.8	70-130			
o-Xylene	0.0931	0.0050	"	0.100	ND	93.1	70-130			
1,2,4-Trimethylbenzene	0.0881	0.0050	"	0.100	ND	88.1	70-130			
1,3,5-Trimethylbenzene	0.0871	0.0050	"	0.100	ND	87.1	70-130			
Naphthalene	0.0926	0.0038	"	0.100	ND	92.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0385		"	0.0400		96.3	50-150			
Surrogate: Toluene-d8	0.0391		"	0.0400		97.7	50-150			
Surrogate: 4-Bromofluorobenzene	0.0384		"	0.0400		95.9	50-150			

Summit Scientific

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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

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

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

Batch BHL1141 - EPA 5030 Soil MS

Matrix Spike Dup (BHL1141-MSD1)	Source: 2412256-08			Prepared: 12/23/24 Analyzed: 12/31/24					
Benzene	0.0934	0.0020	mg/kg	0.100	ND	93.4	70-130	1.94	30
Toluene	0.0879	0.0050	"	0.100	ND	87.9	70-130	3.98	30
Ethylbenzene	0.0909	0.0050	"	0.100	ND	90.9	70-130	3.15	30
m,p-Xylene	0.175	0.010	"	0.200	ND	87.3	70-130	2.85	30
o-Xylene	0.0881	0.0050	"	0.100	ND	88.1	70-130	5.53	30
1,2,4-Trimethylbenzene	0.0812	0.0050	"	0.100	ND	81.2	70-130	8.12	30
1,3,5-Trimethylbenzene	0.0815	0.0050	"	0.100	ND	81.5	70-130	6.58	30
Naphthalene	0.0865	0.0038	"	0.100	ND	86.5	70-130	6.83	30
Surrogate: 1,2-Dichloroethane-d4	0.0367		"	0.0400		91.8	50-150		
Surrogate: Toluene-d8	0.0386		"	0.0400		96.4	50-150		
Surrogate: 4-Bromofluorobenzene	0.0383		"	0.0400		95.8	50-150		

Batch BHL1142 - EPA 5030 Soil MS

Blank (BHL1142-BLK1)	Prepared: 12/23/24 Analyzed: 12/30/24				
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	0.0420		"	0.0400	105 50-150
Surrogate: Toluene-d8	0.0404		"	0.0400	101 50-150
Surrogate: 4-Bromofluorobenzene	0.0403		"	0.0400	101 50-150

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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

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

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

Batch BHL1142 - EPA 5030 Soil MS

LCS (BHL1142-BS1)

Prepared: 12/23/24 Analyzed: 12/30/24

Benzene	0.0975	0.0020	mg/kg	0.100		97.5	70-130			
Toluene	0.0966	0.0050	"	0.100		96.6	70-130			
Ethylbenzene	0.0951	0.0050	"	0.100		95.1	70-130			
m,p-Xylene	0.191	0.010	"	0.200		95.7	70-130			
o-Xylene	0.0950	0.0050	"	0.100		95.0	70-130			
1,2,4-Trimethylbenzene	0.0902	0.0050	"	0.100		90.2	70-130			
1,3,5-Trimethylbenzene	0.0897	0.0050	"	0.100		89.7	70-130			
Naphthalene	0.0980	0.0038	"	0.100		98.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0396		"	0.0400		99.1	50-150			
Surrogate: Toluene-d8	0.0393		"	0.0400		98.3	50-150			
Surrogate: 4-Bromofluorobenzene	0.0399		"	0.0400		99.8	50-150			

Matrix Spike (BHL1142-MS1)

Source: 2412256-28

Prepared: 12/23/24 Analyzed: 12/30/24

Benzene	0.0888	0.0020	mg/kg	0.100	ND	88.8	70-130			
Toluene	0.0884	0.0050	"	0.100	ND	88.4	70-130			
Ethylbenzene	0.0848	0.0050	"	0.100	ND	84.8	70-130			
m,p-Xylene	0.172	0.010	"	0.200	ND	85.9	70-130			
o-Xylene	0.0854	0.0050	"	0.100	ND	85.4	70-130			
1,2,4-Trimethylbenzene	0.0778	0.0050	"	0.100	ND	77.8	70-130			
1,3,5-Trimethylbenzene	0.0784	0.0050	"	0.100	ND	78.4	70-130			
Naphthalene	0.0794	0.0038	"	0.100	ND	79.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0421		"	0.0400		105	50-150			
Surrogate: Toluene-d8	0.0395		"	0.0400		98.8	50-150			
Surrogate: 4-Bromofluorobenzene	0.0401		"	0.0400		100	50-150			

Matrix Spike Dup (BHL1142-MSD1)

Source: 2412256-28

Prepared: 12/23/24 Analyzed: 12/30/24

Benzene	0.0880	0.0020	mg/kg	0.100	ND	88.0	70-130	0.883	30	
Toluene	0.0875	0.0050	"	0.100	ND	87.5	70-130	0.989	30	
Ethylbenzene	0.0808	0.0050	"	0.100	ND	80.8	70-130	4.89	30	
m,p-Xylene	0.162	0.010	"	0.200	ND	80.9	70-130	6.06	30	
o-Xylene	0.0811	0.0050	"	0.100	ND	81.1	70-130	5.08	30	
1,2,4-Trimethylbenzene	0.0727	0.0050	"	0.100	ND	72.7	70-130	6.90	30	
1,3,5-Trimethylbenzene	0.0728	0.0050	"	0.100	ND	72.8	70-130	7.38	30	
Naphthalene	0.0774	0.0038	"	0.100	ND	77.4	70-130	2.60	30	
Surrogate: 1,2-Dichloroethane-d4	0.0428		"	0.0400		107	50-150			
Surrogate: Toluene-d8	0.0400		"	0.0400		100	50-150			
Surrogate: 4-Bromofluorobenzene	0.0402		"	0.0400		100	50-150			

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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BHL1153 - EPA 3550A

Blank (BHL1153-BLK1)

Prepared: 12/23/24 Analyzed: 01/02/25

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	13.2		"	12.5		106		30-150			

LCS (BHL1153-BS1)

Prepared: 12/23/24 Analyzed: 01/02/25

C10-C28 (DRO)	546	50	mg/kg	500		109		70-130			
Surrogate: <i>o</i> -Terphenyl	13.4		"	12.5		107		30-150			

Matrix Spike (BHL1153-MS1)

Source: 2412256-08

Prepared: 12/23/24 Analyzed: 01/02/25

C10-C28 (DRO)	549	50	mg/kg	500	35.7	103		70-130			
Surrogate: <i>o</i> -Terphenyl	10.9		"	12.5		87.6		30-150			

Matrix Spike Dup (BHL1153-MSD1)

Source: 2412256-08

Prepared: 12/23/24 Analyzed: 01/02/25

C10-C28 (DRO)	517	50	mg/kg	500	35.7	96.2		70-130	6.11	20	
Surrogate: <i>o</i> -Terphenyl	10.8		"	12.5		86.0		30-150			

Batch BHL1154 - EPA 3550A

Blank (BHL1154-BLK1)

Prepared: 12/23/24 Analyzed: 01/02/25

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	12.5		"	12.5		100		30-150			

LCS (BHL1154-BS1)

Prepared: 12/23/24 Analyzed: 01/02/25

C10-C28 (DRO)	466	50	mg/kg	500		93.2		70-130			
Surrogate: <i>o</i> -Terphenyl	11.4		"	12.5		91.5		30-150			

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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31

Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BHL1154 - EPA 3550A

Matrix Spike (BHL1154-MS1)

Source: 2412256-28

Prepared: 12/23/24 Analyzed: 01/02/25

C10-C28 (DRO)	474	50	mg/kg	500	25.7	89.8	70-130			
Surrogate: o-Terphenyl	10.5		"	12.5		84.4	30-150			

Matrix Spike Dup (BHL1154-MSD1)

Source: 2412256-28

Prepared: 12/23/24 Analyzed: 01/02/25

C10-C28 (DRO)	490	50	mg/kg	500	25.7	92.8	70-130	3.14	20	
Surrogate: o-Terphenyl	10.1		"	12.5		80.8	30-150			

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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

PAH by EPA Method 8270D SIM - Quality Control
Summit Scientific

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

Batch BHL1111 - EPA 5030 Soil MS

Blank (BHL1111-BLK1)

Prepared: 12/23/24 Analyzed: 12/28/24

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	0.0283		"	0.0333		85.0	40-140			
Surrogate: Fluoranthene-d10	0.0281		"	0.0333		84.2	40-140			

LCS (BHL1111-BS1)

Prepared: 12/23/24 Analyzed: 12/28/24

Acenaphthene	0.0277	0.00500	mg/kg	0.0333		83.2	40-140			
Anthracene	0.0247	0.00500	"	0.0333		74.1	40-140			
Benzo (a) anthracene	0.0254	0.00500	"	0.0333		76.2	40-140			
Benzo (a) pyrene	0.0241	0.00500	"	0.0333		72.2	40-140			
Benzo (b) fluoranthene	0.0234	0.00500	"	0.0333		70.3	40-140			
Benzo (k) fluoranthene	0.0248	0.00500	"	0.0333		74.3	40-140			
Chrysene	0.0255	0.00500	"	0.0333		76.6	40-140			
Dibenz (a,h) anthracene	0.0205	0.00500	"	0.0333		61.5	40-140			
Fluoranthene	0.0258	0.00500	"	0.0333		77.5	40-140			
Fluorene	0.0289	0.00500	"	0.0333		86.6	40-140			
Indeno (1,2,3-cd) pyrene	0.0227	0.00500	"	0.0333		68.0	40-140			
Pyrene	0.0277	0.00500	"	0.0333		83.2	40-140			
1-Methylnaphthalene	0.0227	0.00500	"	0.0333		68.0	40-140			
2-Methylnaphthalene	0.0238	0.00500	"	0.0333		71.5	40-140			
Surrogate: 2-Methylnaphthalene-d10	0.0235		"	0.0333		70.6	40-140			
Surrogate: Fluoranthene-d10	0.0250		"	0.0333		75.1	40-140			

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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHL1111 - EPA 5030 Soil MS

Matrix Spike (BHL1111-MS1)	Source: 2412256-08			Prepared: 12/23/24 Analyzed: 12/28/24					
Acenaphthene	0.0157	0.00500	mg/kg	0.0333	ND	47.1	40-140		
Anthracene	0.0140	0.00500	"	0.0333	ND	42.0	40-140		
Benzo (a) anthracene	0.0138	0.00500	"	0.0333	ND	41.3	40-140		
Benzo (a) pyrene	0.0173	0.00500	"	0.0333	ND	51.9	40-140		
Benzo (b) fluoranthene	0.0162	0.00500	"	0.0333	ND	48.7	40-140		
Benzo (k) fluoranthene	0.0135	0.00500	"	0.0333	ND	40.6	40-140		
Chrysene	0.0148	0.00500	"	0.0333	ND	44.5	40-140		
Dibenz (a,h) anthracene	0.0186	0.00500	"	0.0333	ND	55.9	40-140		
Fluoranthene	0.0138	0.00500	"	0.0333	ND	41.5	40-140		
Fluorene	0.0135	0.00500	"	0.0333	ND	40.4	40-140		
Indeno (1,2,3-cd) pyrene	0.0196	0.00500	"	0.0333	ND	58.8	40-140		
Pyrene	0.0140	0.00500	"	0.0333	ND	41.9	40-140		
1-Methylnaphthalene	0.0144	0.00500	"	0.0333	ND	43.1	40-140		
2-Methylnaphthalene	0.0153	0.00500	"	0.0333	ND	45.9	40-140		
Surrogate: 2-Methylnaphthalene-d10	0.0146		"	0.0333		43.9	40-140		
Surrogate: Fluoranthene-d10	0.0163		"	0.0333		49.0	40-140		

Matrix Spike Dup (BHL1111-MSD1)	Source: 2412256-08			Prepared: 12/23/24 Analyzed: 12/28/24					
Acenaphthene	0.0191	0.00500	mg/kg	0.0333	ND	57.4	40-140	19.6	30
Anthracene	0.0180	0.00500	"	0.0333	ND	53.9	40-140	25.0	30
Benzo (a) anthracene	0.0162	0.00500	"	0.0333	ND	48.5	40-140	15.9	30
Benzo (a) pyrene	0.0155	0.00500	"	0.0333	ND	46.6	40-140	10.8	30
Benzo (b) fluoranthene	0.0148	0.00500	"	0.0333	ND	44.4	40-140	9.24	30
Benzo (k) fluoranthene	0.0159	0.00500	"	0.0333	ND	47.7	40-140	16.1	30
Chrysene	0.0178	0.00500	"	0.0333	ND	53.5	40-140	18.5	30
Dibenz (a,h) anthracene	0.0174	0.00500	"	0.0333	ND	52.2	40-140	6.79	30
Fluoranthene	0.0175	0.00500	"	0.0333	ND	52.6	40-140	23.5	30
Fluorene	0.0186	0.00500	"	0.0333	ND	55.9	40-140	32.3	30
Indeno (1,2,3-cd) pyrene	0.0144	0.00500	"	0.0333	ND	43.3	40-140	30.4	30
Pyrene	0.0179	0.00500	"	0.0333	ND	53.7	40-140	24.6	30
1-Methylnaphthalene	0.0176	0.00500	"	0.0333	ND	52.9	40-140	20.4	30
2-Methylnaphthalene	0.0185	0.00500	"	0.0333	ND	55.6	40-140	19.1	30
Surrogate: 2-Methylnaphthalene-d10	0.0179		"	0.0333		53.6	40-140		
Surrogate: Fluoranthene-d10	0.0171		"	0.0333		51.4	40-140		

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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHL1115 - EPA 5030 Soil MS

Blank (BHL1115-BLK1)

Prepared: 12/23/24 Analyzed: 12/29/24

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	0.0149		"	0.0333		44.6	40-140			
Surrogate: Fluoranthene-d10	0.0201		"	0.0333		60.4	40-140			

LCS (BHL1115-BS1)

Prepared: 12/23/24 Analyzed: 12/29/24

Acenaphthene	0.0200	0.00500	mg/kg	0.0333		59.9	40-140			
Anthracene	0.0208	0.00500	"	0.0333		62.3	40-140			
Benzo (a) anthracene	0.0217	0.00500	"	0.0333		65.2	40-140			
Benzo (a) pyrene	0.0199	0.00500	"	0.0333		59.6	40-140			
Benzo (b) fluoranthene	0.0187	0.00500	"	0.0333		56.2	40-140			
Benzo (k) fluoranthene	0.0194	0.00500	"	0.0333		58.2	40-140			
Chrysene	0.0206	0.00500	"	0.0333		61.7	40-140			
Dibenz (a,h) anthracene	0.0179	0.00500	"	0.0333		53.6	40-140			
Fluoranthene	0.0202	0.00500	"	0.0333		60.6	40-140			
Fluorene	0.0203	0.00500	"	0.0333		60.9	40-140			
Indeno (1,2,3-cd) pyrene	0.0184	0.00500	"	0.0333		55.2	40-140			
Pyrene	0.0215	0.00500	"	0.0333		64.5	40-140			
1-Methylnaphthalene	0.0197	0.00500	"	0.0333		59.2	40-140			
2-Methylnaphthalene	0.0196	0.00500	"	0.0333		58.9	40-140			
Surrogate: 2-Methylnaphthalene-d10	0.0200		"	0.0333		59.9	40-140			
Surrogate: Fluoranthene-d10	0.0206		"	0.0333		61.9	40-140			

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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHL1115 - EPA 5030 Soil MS

Matrix Spike (BHL1115-MS1)	Source: 2412256-28			Prepared: 12/23/24 Analyzed: 12/29/24						
Acenaphthene	0.0173	0.00500	mg/kg	0.0333	ND	51.9	40-140			
Anthracene	0.0177	0.00500	"	0.0333	ND	53.0	40-140			
Benzo (a) anthracene	0.0176	0.00500	"	0.0333	ND	52.7	40-140			
Benzo (a) pyrene	0.0161	0.00500	"	0.0333	ND	48.2	40-140			
Benzo (b) fluoranthene	0.0151	0.00500	"	0.0333	ND	45.2	40-140			
Benzo (k) fluoranthene	0.0157	0.00500	"	0.0333	ND	47.1	40-140			
Chrysene	0.0169	0.00500	"	0.0333	ND	50.7	40-140			
Dibenz (a,h) anthracene	0.0143	0.00500	"	0.0333	ND	42.8	40-140			
Fluoranthene	0.0165	0.00500	"	0.0333	ND	49.4	40-140			
Fluorene	0.0170	0.00500	"	0.0333	ND	51.0	40-140			
Indeno (1,2,3-cd) pyrene	0.0140	0.00500	"	0.0333	ND	42.1	40-140			
Pyrene	0.0175	0.00500	"	0.0333	ND	52.5	40-140			
1-Methylnaphthalene	0.0173	0.00500	"	0.0333	ND	51.8	40-140			
2-Methylnaphthalene	0.0174	0.00500	"	0.0333	ND	52.1	40-140			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0175</i>	<i>"</i>	<i>"</i>	<i>0.0333</i>	<i>"</i>	<i>52.6</i>	<i>40-140</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0169</i>	<i>"</i>	<i>"</i>	<i>0.0333</i>	<i>"</i>	<i>50.8</i>	<i>40-140</i>			

Matrix Spike Dup (BHL1115-MSD1)	Source: 2412256-28			Prepared: 12/23/24 Analyzed: 12/29/24						
Acenaphthene	0.0190	0.00500	mg/kg	0.0333	ND	56.9	40-140	9.15	30	
Anthracene	0.0192	0.00500	"	0.0333	ND	57.5	40-140	8.17	30	
Benzo (a) anthracene	0.0196	0.00500	"	0.0333	ND	58.9	40-140	11.2	30	
Benzo (a) pyrene	0.0176	0.00500	"	0.0333	ND	52.9	40-140	9.45	30	
Benzo (b) fluoranthene	0.0165	0.00500	"	0.0333	ND	49.6	40-140	9.20	30	
Benzo (k) fluoranthene	0.0170	0.00500	"	0.0333	ND	50.9	40-140	7.69	30	
Chrysene	0.0183	0.00500	"	0.0333	ND	55.0	40-140	8.19	30	
Dibenz (a,h) anthracene	0.0156	0.00500	"	0.0333	ND	46.7	40-140	8.85	30	
Fluoranthene	0.0179	0.00500	"	0.0333	ND	53.7	40-140	8.32	30	
Fluorene	0.0186	0.00500	"	0.0333	ND	55.9	40-140	9.00	30	
Indeno (1,2,3-cd) pyrene	0.0154	0.00500	"	0.0333	ND	46.3	40-140	9.63	30	
Pyrene	0.0190	0.00500	"	0.0333	ND	57.1	40-140	8.49	30	
1-Methylnaphthalene	0.0195	0.00500	"	0.0333	ND	58.5	40-140	12.0	30	
2-Methylnaphthalene	0.0194	0.00500	"	0.0333	ND	58.1	40-140	10.9	30	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0196</i>	<i>"</i>	<i>"</i>	<i>0.0333</i>	<i>"</i>	<i>58.9</i>	<i>40-140</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0185</i>	<i>"</i>	<i>"</i>	<i>0.0333</i>	<i>"</i>	<i>55.4</i>	<i>40-140</i>			

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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

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

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

Batch BIB0170 - EPA 3050B

Blank (BIB0170-BLK1)										
					Prepared: 02/05/25 Analyzed: 02/08/25					
Boron	ND	2.00	mg/L							
LCS (BIB0170-BS1)										
					Prepared: 02/05/25 Analyzed: 02/08/25					
Boron	5.50	2.00	mg/L	5.00	110	80-120				
Duplicate (BIB0170-DUP1)										
					Source: 2412254-03 Prepared: 02/05/25 Analyzed: 02/08/25					
Boron	0.162	2.00	mg/L	0.234			36.1	20		QR-01
Matrix Spike (BIB0170-MS1)										
					Source: 2412254-03 Prepared: 02/05/25 Analyzed: 02/08/25					
Boron	5.26	2.00	mg/L	5.00	0.234	100	75-125			
Matrix Spike Dup (BIB0170-MSD1)										
					Source: 2412254-03 Prepared: 02/05/25 Analyzed: 02/08/25					
Boron	5.50	2.00	mg/L	5.00	0.234	105	75-125	4.54	25	

Batch BIB0171 - EPA 3050B

Blank (BIB0171-BLK1)										
					Prepared: 02/05/25 Analyzed: 02/07/25					
Boron	ND	2.00	mg/L							
LCS (BIB0171-BS1)										
					Prepared: 02/05/25 Analyzed: 02/07/25					
Boron	5.16	2.00	mg/L	5.00	103	80-120				
Duplicate (BIB0171-DUP1)										
					Source: 2412256-19 Prepared: 02/05/25 Analyzed: 02/07/25					
Boron	0.948	2.00	mg/L	0.965			1.75	20		
Matrix Spike (BIB0171-MS1)										
					Source: 2412256-19 Prepared: 02/05/25 Analyzed: 02/07/25					
Boron	5.53	2.00	mg/L	5.00	0.965	91.4	75-125			

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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31

Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

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

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

Batch BIB0171 - EPA 3050B

Matrix Spike Dup (BIB0171-MSD1)

Source: 2412256-19

Prepared: 02/05/25 Analyzed: 02/08/25

Boron	5.69	2.00	mg/L	5.00	0.965	94.5	75-125	2.81	25	
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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BIB0206 - EPA 3050B

Blank (BIB0206-BLK1)

Prepared: 02/05/25 Analyzed: 02/12/25

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 (BIB0206-BS1)

Prepared: 02/05/25 Analyzed: 02/12/25

Arsenic	44.5	0.200	mg/kg wet	41.0	109	80-120
Barium	45.1	0.400	"	41.0	110	80-120
Cadmium	2.21	0.200	"	2.05	108	80-120
Copper	47.4	0.400	"	41.0	116	80-120
Lead	22.4	0.200	"	20.5	109	80-120
Nickel	47.0	0.400	"	41.0	115	80-120
Silver	2.22	0.0200	"	2.05	108	80-120
Zinc	47.0	0.400	"	41.0	115	80-120
Selenium	4.29	0.260	"	4.10	105	80-120

Duplicate (BIB0206-DUP1)

Source: 2412252-20

Prepared: 02/05/25 Analyzed: 02/12/25

Arsenic	5.26	0.200	mg/kg dry	5.30	0.762	20
Barium	124	0.400	"	134	7.71	20
Cadmium	0.333	0.200	"	0.324	2.62	20
Copper	7.75	0.400	"	7.75	0.0413	20
Lead	11.4	0.200	"	11.6	1.52	20
Nickel	9.02	0.400	"	8.82	2.28	20
Silver	0.0722	0.0200	"	0.0758	4.90	20
Zinc	28.9	0.400	"	29.3	1.20	20
Selenium	ND	0.260	"	0.193	200	20

QR-01

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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BIB0206 - EPA 3050B

Matrix Spike (BIB0206-MS1)		Source: 2412252-20			Prepared: 02/05/25		Analyzed: 02/12/25	
Arsenic	53.4	0.200	mg/kg dry	46.3	5.30	104	75-125	
Barium	173	0.400	"	46.3	134	83.3	75-125	
Cadmium	2.93	0.200	"	2.32	0.324	113	75-125	
Copper	34.9	0.400	"	46.3	7.75	58.5	75-125	QM-05
Lead	35.9	0.200	"	23.2	11.6	105	75-125	
Nickel	36.0	0.400	"	46.3	8.82	58.6	75-125	QM-05
Silver	2.58	0.0200	"	2.32	0.0758	108	75-125	
Zinc	54.9	0.400	"	46.3	29.3	55.4	75-125	QM-05
Selenium	4.03	0.260	"	4.63	0.193	82.9	75-125	

Matrix Spike Dup (BIB0206-MSD1)		Source: 2412252-20			Prepared: 02/05/25		Analyzed: 02/12/25			
Arsenic	53.4	0.200	mg/kg dry	45.6	5.30	106	75-125	0.0166	25	
Barium	166	0.400	"	45.6	134	68.3	75-125	4.38	25	QM-05
Cadmium	2.86	0.200	"	2.28	0.324	111	75-125	2.32	25	
Copper	33.6	0.400	"	45.6	7.75	56.6	75-125	3.76	25	QM-05
Lead	35.4	0.200	"	22.8	11.6	105	75-125	1.33	25	
Nickel	35.1	0.400	"	45.6	8.82	57.6	75-125	2.49	25	QM-05
Silver	2.54	0.0200	"	2.28	0.0758	108	75-125	1.87	25	
Zinc	53.5	0.400	"	45.6	29.3	53.1	75-125	2.63	25	QM-05
Selenium	3.96	0.260	"	4.56	0.193	82.7	75-125	1.73	25	

Batch BIB0207 - EPA 3050B

Blank (BIB0207-BLK1)					Prepared: 02/05/25		Analyzed: 02/13/25		
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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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BIB0207 - EPA 3050B

LCS (BIB0207-BS1)

Prepared: 02/05/25 Analyzed: 02/13/25

Arsenic	41.0	0.200	mg/kg wet	41.0		100	80-120			
Barium	41.9	0.400	"	41.0		102	80-120			
Cadmium	2.22	0.200	"	2.05		108	80-120			
Copper	40.7	0.400	"	41.0		99.2	80-120			
Lead	22.5	0.200	"	20.5		110	80-120			
Nickel	46.2	0.400	"	41.0		113	80-120			
Silver	2.20	0.0200	"	2.05		107	80-120			
Zinc	41.8	0.400	"	41.0		102	80-120			
Selenium	4.70	0.260	"	4.10		115	80-120			

Duplicate (BIB0207-DUP1)

Source: 2412256-16

Prepared: 02/05/25 Analyzed: 02/13/25

Arsenic	5.12	0.200	mg/kg dry		5.60			8.82	20	
Barium	147	0.400	"		191			26.1	20	QR-04
Cadmium	0.436	0.200	"		0.442			1.41	20	
Copper	15.0	0.400	"		15.9			6.22	20	
Lead	13.2	0.200	"		13.6			2.83	20	
Nickel	6.64	0.400	"		6.53			1.59	20	
Silver	0.0674	0.0200	"		0.0803			17.4	20	
Zinc	57.1	0.400	"		56.8			0.588	20	
Selenium	0.283	0.260	"		0.317			11.2	20	

Matrix Spike (BIB0207-MS1)

Source: 2412256-16

Prepared: 02/05/25 Analyzed: 02/13/25

Arsenic	52.1	0.200	mg/kg dry	49.0	5.60	94.9	75-125			
Barium	197	0.400	"	49.0	191	11.8	75-125			QM-05
Cadmium	3.07	0.200	"	2.45	0.442	107	75-125			
Copper	59.6	0.400	"	49.0	15.9	89.1	75-125			
Lead	38.1	0.200	"	24.5	13.6	99.9	75-125			
Nickel	35.3	0.400	"	49.0	6.53	58.6	75-125			QM-05
Silver	2.61	0.0200	"	2.45	0.0803	103	75-125			
Zinc	103	0.400	"	49.0	56.8	94.6	75-125			
Selenium	5.26	0.260	"	4.90	0.317	101	75-125			

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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31

Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BIB0207 - EPA 3050B

Matrix Spike Dup (BIB0207-MSD1)	Source: 2412256-16			Prepared: 02/05/25		Analyzed: 02/13/25					
Arsenic	51.5	0.200	mg/kg dry	48.2	5.60	95.1	75-125	1.29	25		
Barium	197	0.400	"	48.2	191	11.5	75-125	0.127	25	QM-05	
Cadmium	3.01	0.200	"	2.41	0.442	106	75-125	2.21	25		
Copper	58.1	0.400	"	48.2	15.9	87.4	75-125	2.61	25		
Lead	38.0	0.200	"	24.1	13.6	101	75-125	0.321	25		
Nickel	34.9	0.400	"	48.2	6.53	58.8	75-125	1.06	25	QM-05	
Silver	2.57	0.0200	"	2.41	0.0803	103	75-125	1.32	25		
Zinc	102	0.400	"	48.2	56.8	94.2	75-125	0.916	25		
Selenium	5.37	0.260	"	4.82	0.317	105	75-125	1.94	25		

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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BIA0378 - 3060A Mod

Blank (BIA0378-BLK1)											
Prepared: 01/09/25 Analyzed: 01/13/25											
Chromium, Hexavalent	ND	0.30	mg/kg wet								
LCS (BIA0378-BS1)											
Prepared: 01/09/25 Analyzed: 01/13/25											
Chromium, Hexavalent	26.2	0.30	mg/kg wet	25.0		105	80-120				
Duplicate (BIA0378-DUP1)											
Source: 2412256-01 Prepared: 01/09/25 Analyzed: 01/13/25											
Chromium, Hexavalent	ND	0.30	mg/kg dry		ND					20	
Matrix Spike (BIA0378-MS1)											
Source: 2412256-01 Prepared: 01/09/25 Analyzed: 01/13/25											
Chromium, Hexavalent	29.2	0.30	mg/kg dry	28.9	ND	101	75-125				
Matrix Spike Dup (BIA0378-MSD1)											
Source: 2412256-01 Prepared: 01/09/25 Analyzed: 01/13/25											
Chromium, Hexavalent	28.7	0.30	mg/kg dry	28.9	ND	99.4	75-125	1.60		20	

Batch BIA0424 - 3060A Mod

Blank (BIA0424-BLK1)											
Prepared: 01/10/25 Analyzed: 01/14/25											
Chromium, Hexavalent	ND	0.30	mg/kg wet								
LCS (BIA0424-BS1)											
Prepared: 01/10/25 Analyzed: 01/14/25											
Chromium, Hexavalent	25.9	0.30	mg/kg wet	24.8		105	80-120				
Duplicate (BIA0424-DUP1)											
Source: 2412256-21 Prepared: 01/10/25 Analyzed: 01/14/25											
Chromium, Hexavalent	ND	0.30	mg/kg dry		ND					20	
Matrix Spike (BIA0424-MS1)											
Source: 2412256-21 Prepared: 01/10/25 Analyzed: 01/14/25											
Chromium, Hexavalent	28.9	0.30	mg/kg dry	28.8	ND	101	75-125				

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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31

Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

Hexavalent Chromium by EPA Method 7196 - Quality Control

Summit Scientific

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

Batch BIA0424 - 3060A Mod

Matrix Spike Dup (BIA0424-MSD1)

Source: 2412256-21

Prepared: 01/10/25 Analyzed: 01/14/25

Chromium, Hexavalent	27.0	0.30	mg/kg dry	27.1	ND	99.6	75-125	6.82	20	
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Summit Scientific

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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - Stephenson #6-31
Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

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

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

Batch BIA0292 - General Preparation

Blank (BIA0292-BLK1)

Prepared: 01/08/25 Analyzed: 01/16/25

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

LCS (BIA0292-BS1)

Prepared: 01/08/25 Analyzed: 01/16/25

Calcium	5.38	0.0500	mg/L wet	5.00	108	70-130
Magnesium	5.19	0.0500	"	5.00	104	70-130
Sodium	5.28	0.0500	"	5.00	106	70-130

Batch BIA0293 - General Preparation

Blank (BIA0293-BLK1)

Prepared: 01/08/25 Analyzed: 01/17/25

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

LCS (BIA0293-BS1)

Prepared: 01/08/25 Analyzed: 01/17/25

Calcium	5.34	0.0500	mg/L wet	5.00	107	70-130
Magnesium	4.74	0.0500	"	5.00	94.9	70-130
Sodium	4.85	0.0500	"	5.00	97.1	70-130

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Reported:
02/14/25 09:08

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 BIA0213 - General Preparation

Duplicate (BIA0213-DUP1)		Source: 2412256-01			Prepared & Analyzed: 01/07/25			
% Solids	85.9		%		86.5		0.660	20

Batch BIA0214 - General Preparation

Duplicate (BIA0214-DUP1)		Source: 2412256-31			Prepared & Analyzed: 01/07/25			
% Solids	90.5		%		90.4		0.135	20

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Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

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

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

Batch BIA0282 - General Preparation

Blank (BIA0282-BLK1)											
											Prepared: 01/08/25 Analyzed: 01/10/25
Specific Conductance (EC)	ND	0.0100	mmhos/cm								
LCS (BIA0282-BS1)											
											Prepared: 01/08/25 Analyzed: 01/10/25
Specific Conductance (EC)	0.154	0.0100	mmhos/cm	0.150	103	95-105					
Duplicate (BIA0282-DUP1)											
											Source: 2412256-01 Prepared: 01/08/25 Analyzed: 01/10/25
Specific Conductance (EC)	0.416	0.0100	mmhos/cm		0.422			1.55	20		

Batch BIA0285 - General Preparation

Blank (BIA0285-BLK1)											
											Prepared: 01/08/25 Analyzed: 01/10/25
Specific Conductance (EC)	ND	0.0100	mmhos/cm								
LCS (BIA0285-BS1)											
											Prepared: 01/08/25 Analyzed: 01/10/25
Specific Conductance (EC)	1.34	0.0100	mmhos/cm	1.41	95.2	95-105					
Duplicate (BIA0285-DUP1)											
											Source: 2412256-22 Prepared: 01/08/25 Analyzed: 01/10/25
Specific Conductance (EC)	0.314	0.0100	mmhos/cm		0.315			0.303	20		

Summit Scientific

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Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

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 BIA0269 - General Preparation

LCS (BIA0269-BS1)		Prepared: 01/08/25 Analyzed: 01/10/25								
pH	9.13		pH Units	9.18		99.5	95-105			
Duplicate (BIA0269-DUP1)		Source: 2412256-01		Prepared: 01/08/25 Analyzed: 01/10/25						
pH	7.86		pH Units		7.90			0.508	20	

Batch BIA0270 - General Preparation

LCS (BIA0270-BS1)		Prepared: 01/08/25 Analyzed: 01/10/25								
pH	9.05		pH Units	9.18		98.6	95-105			
Duplicate (BIA0270-DUP1)		Source: 2412256-22		Prepared: 01/08/25 Analyzed: 01/10/25						
pH	7.98		pH Units		8.08			1.24	20	

Summit Scientific

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Project Number: UWRWE-A1685-ABN 0736294
Project Manager: Justin Onwiler

Reported:
02/14/25 09:08

Notes and Definitions

- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
- 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-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- 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