

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

May 22, 2025

David Stainback

CDH Consulting

9446 Clermont St.

Thornton, CO 80119

RE: Chevron - Sater CC 18-14

Work Order #2504285

Enclosed are the results of analyses for samples received by Summit Scientific on 04/16/25 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



CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Sater CC 18-14

Project Number: 31584
Project Manager: David Stainback

Reported:
05/22/25 11:12

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AST01@0-6"	2504285-01	Soil	04/16/25 09:10	04/16/25 16:30
AST02@0-6"	2504285-02	Soil	04/16/25 09:15	04/16/25 16:30
AST03@0-6"	2504285-03	Soil	04/16/25 10:10	04/16/25 16:30
PWV01@5'	2504285-04	Soil	04/16/25 11:30	04/16/25 16:30
PWV01-S@3'	2504285-05	Soil	04/16/25 11:35	04/16/25 16:30
PWV02@5'	2504285-06	Soil	04/16/25 11:20	04/16/25 16:30
PWV02-N@3'	2504285-07	Soil	04/16/25 11:25	04/16/25 16:30
SEP01-DL@5'	2504285-08	Soil	04/16/25 12:10	04/16/25 16:30
SEP02-DL@5'	2504285-09	Soil	04/16/25 12:15	04/16/25 16:30
FL01-R-S@4'	2504285-10	Soil	04/16/25 12:20	04/16/25 16:30

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

Lab ID	Page 1 of 1
2504285	

Client: <i>CDT Consulting</i>	Send Data To: <i>David Stenback</i>	Send Invoice To:
Address:	E-Mail: <i>CVX-PM@cdtconsulting.com</i>	Company: <i>Chevron</i>
City/State/Zip:	<i>RBU EUP27@chevron.com</i>	Project Name/Location:
Phone:	Project Name: <i>Sister C 18-14</i>	AFE#:
Sampler Name: <i>Jacks Willey</i>	Project Number: <i>31584</i>	PO/Billing Codes:
		Contact: <i>Dan Peterson</i>

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested				Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other					
1	AST01@0-6"	4/16/25	9:10				X			X							
2	AST02@0-6"		9:15				X			X							
3	AST03@0-6"		10:10				X			X							
4	PW01@5'		11:30				X			X							
5	PW01-S@3'		11:35				X			X							
6	PW02@5'		11:40				X			X							
7	PW02-Neat		11:25				X			X							
8	SEP01-PL@5'		12:16				X			X							
9	SEP02-PL@5'		12:15				X			X							
10	FLO1-R-S@4'	✓	12:20				X			X							
11																	
12																	
13																	
14																	
15																	

Relinquished by: <i>[Signature]</i>	Date/Time: 4/16/25 6:00	Received by: <i>Summit</i>	Date/Time: 4/16/25 15:00	TAT Business Days	Field DO	Notes:
Relinquished by: <i>SE</i>	Date/Time: 4/16/25 10:00	Received by: <i>[Signature]</i>	Date/Time: 4/16/25 16:00	Same Day <input checked="" type="checkbox"/>	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: 8.3	Corrected Temperature: 8	IR gun #: 1	HNO3 lot #:			



CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Sater CC 18-14

Project Number: 31584
Project Manager: David Stainback

Reported:
05/22/25 11:12

AST01@0-6"
2504285-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/16/25 09:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BID0978	04/16/25	04/17/25	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: **04/16/25 09:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0330	82.5 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0407	102 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0373	93.3 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/16/25 09:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BID0982	04/16/25	04/17/25	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **04/16/25 09:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	10.0	80.0 %		50-140		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Chevron - Sater CC 18-14

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Project Manager: David Stainback

Reported:
05/22/25 11:12

AST01@0-6"
2504285-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/16/25 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BID1154	04/22/25	05/20/25	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: **04/16/25 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0183	55.0 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0194	58.1 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/16/25 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L dry	1	BID0991	04/17/25	04/17/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/16/25 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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AST01@0-6"
2504285-01 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.851	0.200	mg/kg dry	1	BID1003	04/17/25	04/18/25	EPA 6020B	
Barium	37.3	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.21	0.400	"	"	"	"	"	"	
Lead	2.49	0.200	"	"	"	"	"	"	
Nickel	1.38	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	4.90	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by HACH M8023

Date Sampled: **04/16/25 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BID1006	04/17/25	04/17/25	Hach 8000	

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

Date Sampled: **04/16/25 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	330	0.0500	mg/L dry	1	BID0983	04/16/25	04/18/25	EPA 6020B	
Magnesium	123	0.0500	"	"	"	"	"	"	
Sodium	15.5	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/16/25 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.185	0.00100	units	1	BID1068	04/18/25	04/18/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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AST01@0-6"
2504285-01 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/16/25 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.0		%	1	BID0995	04/17/25	04/17/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/16/25 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	4.45	0.0100	mmhos/cm	1	BID0985	04/16/25	04/17/25	EPA 120.1	

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

Date Sampled: **04/16/25 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.61		pH Units	1	BID0984	04/16/25	04/17/25	EPA 9045D	

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05/22/25 11:12

AST02@0-6"
2504285-02 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/16/25 09:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BID0978	04/16/25	04/17/25	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: **04/16/25 09:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0272	68.0 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0392	98.0 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0381	95.2 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/16/25 09:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BID0982	04/16/25	04/17/25	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **04/16/25 09:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	8.90	71.2 %		50-140		"	"	"	"	

PAH by EPA Method 8270D SIM

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AST02@0-6"
2504285-02 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **04/16/25 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BID1154	04/22/25	05/21/25	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: **04/16/25 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0178	53.3 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0191	57.3 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/16/25 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L dry	1	BID0991	04/17/25	04/17/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/16/25 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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05/22/25 11:12

AST02@0-6"
2504285-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.831	0.200	mg/kg dry	1	BID1003	04/17/25	04/18/25	EPA 6020B	
Barium	32.4	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.05	0.400	"	"	"	"	"	"	
Lead	2.10	0.200	"	"	"	"	"	"	
Nickel	1.32	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	4.18	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by HACH M8023

Date Sampled: **04/16/25 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BID1006	04/17/25	04/17/25	Hach 8000	

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

Date Sampled: **04/16/25 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	64.4	0.0500	mg/L dry	1	BID0983	04/16/25	04/18/25	EPA 6020B	
Magnesium	42.0	0.0500	"	"	"	"	"	"	
Sodium	22.6	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/16/25 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.538	0.00100	units	1	BID1068	04/18/25	04/18/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Project: Chevron - Sater CC 18-14

Project Number: 31584
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AST02@0-6"
2504285-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/16/25 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.5		%	1	BID0995	04/17/25	04/17/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/16/25 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.315	0.0100	mmhos/cm	1	BID0985	04/16/25	04/17/25	EPA 120.1	

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

Date Sampled: **04/16/25 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.45		pH Units	1	BID0984	04/16/25	04/17/25	EPA 9045D	

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Project: Chevron - Sater CC 18-14

Project Number: 31584
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05/22/25 11:12

AST03@0-6"
2504285-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/16/25 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BID0978	04/16/25	04/17/25	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: **04/16/25 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0301	75.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0385	96.2 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0374	93.4 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/16/25 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BID0982	04/16/25	04/17/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/16/25 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	8.18	65.5 %	50-140		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project Manager: David Stainback

Reported:
05/22/25 11:12

AST03@0-6"
2504285-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/16/25 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BID1154	04/22/25	05/21/25	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: **04/16/25 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0198	59.5 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0207	62.0 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/16/25 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L dry	1	BID0991	04/17/25	04/17/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/16/25 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Sater CC 18-14

Project Number: 31584
Project Manager: David Stainback

Reported:
05/22/25 11:12

AST03@0-6"
2504285-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	0.542	0.200	mg/kg dry	1	BID1003	04/17/25	04/18/25	EPA 6020B
Barium	48.0	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	1.59	0.400	"	"	"	"	"	"
Lead	3.30	0.200	"	"	"	"	"	"
Nickel	1.23	0.400	"	"	"	"	"	"
Silver	0.0223	0.0200	"	"	"	"	"	"
Zinc	4.52	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by HACH M8023

Date Sampled: **04/16/25 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BID1006	04/17/25	04/17/25	Hach 8000	

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

Date Sampled: **04/16/25 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	190	0.0500	mg/L dry	1	BID0983	04/16/25	04/18/25	EPA 6020B	
Magnesium	60.2	0.0500	"	"	"	"	"	"	
Sodium	84.7	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/16/25 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.37	0.00100	units	1	BID1068	04/18/25	04/18/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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CDH Consulting
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Project: Chevron - Sater CC 18-14

Project Number: 31584
 Project Manager: David Stainback

Reported:
 05/22/25 11:12

AST03@0-6"
2504285-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/16/25 10:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	95.2			%	1	BID0995	04/17/25	04/17/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/16/25 10:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.400	0.0100		mmhos/cm	1	BID0985	04/16/25	04/17/25	EPA 120.1	

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

Date Sampled: **04/16/25 10:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	9.65			pH Units	1	BID0984	04/16/25	04/17/25	EPA 9045D	

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Project: Chevron - Sater CC 18-14

Project Number: 31584
Project Manager: David Stainback

Reported:
05/22/25 11:12

PWV01@5'
2504285-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/16/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BID0978	04/16/25	04/17/25	EPA 8260B	
Toluene	0.0088	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.012	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.0083	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/16/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0296	74.1 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0410	103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0379	94.8 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/16/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BID0982	04/16/25	04/17/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/16/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	8.61	68.9 %	50-140		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Chevron - Sater CC 18-14

Project Number: 31584
Project Manager: David Stainback

Reported:
05/22/25 11:12

PWV01@5'
2504285-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/16/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BID1154	04/22/25	05/21/25	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	0.00912	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.0112	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.0156	0.00500	"	"	"	"	"	"	

Date Sampled: **04/16/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0208	62.3 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0248	74.4 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/16/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L dry	1	BID0991	04/17/25	04/17/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/16/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Thornton CO, 80119

Project: Chevron - Sater CC 18-14

Project Number: 31584
Project Manager: David Stainback

Reported:
05/22/25 11:12

PWV01@5'
2504285-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.725	0.200	mg/kg dry	1	BID1003	04/17/25	04/18/25	EPA 6020B	
Barium	42.8	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.34	0.400	"	"	"	"	"	"	
Lead	3.39	0.200	"	"	"	"	"	"	
Nickel	1.31	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	4.89	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by HACH M8023

Date Sampled: **04/16/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BID1006	04/17/25	04/17/25	Hach 8000	

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

Date Sampled: **04/16/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	1390	0.0500	mg/L dry	1	BID0983	04/16/25	04/18/25	EPA 6020B	
Magnesium	53.6	0.0500	"	"	"	"	"	"	
Sodium	15.2	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/16/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.109	0.00100	units	1	BID1068	04/18/25	04/18/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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CDH Consulting
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Project: Chevron - Sater CC 18-14

Project Number: 31584
 Project Manager: David Stainback

Reported:
 05/22/25 11:12

PWV01@5'
2504285-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/16/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.8		%	1	BID0995	04/17/25	04/17/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/16/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.226	0.0100	mmhos/cm	1	BID0985	04/16/25	04/17/25	EPA 120.1	

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

Date Sampled: **04/16/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.66		pH Units	1	BID0984	04/16/25	04/17/25	EPA 9045D	

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Project: Chevron - Sater CC 18-14

Project Number: 31584
Project Manager: David Stainback

Reported:
05/22/25 11:12

PWV01-S@3'
2504285-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/16/25 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BID0978	04/16/25	04/17/25	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: **04/16/25 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0309	77.3 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0393	98.3 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0402	100 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/16/25 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BID0982	04/16/25	04/17/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/16/25 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	8.25	66.0 %	50-140		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Chevron - Sater CC 18-14

Project Number: 31584
Project Manager: David Stainback

Reported:
05/22/25 11:12

PWV01-S@3'
2504285-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/16/25 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BID1154	04/22/25	05/21/25	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: **04/16/25 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0221	66.4 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0232	69.7 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/16/25 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L dry	1	BID0991	04/17/25	04/17/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/16/25 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Sater CC 18-14

Project Number: 31584
Project Manager: David Stainback

Reported:
05/22/25 11:12

PWV01-S@3'
2504285-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.643	0.200	mg/kg dry	1	BID1003	04/17/25	04/18/25	EPA 6020B	
Barium	42.2	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.18	0.400	"	"	"	"	"	"	
Lead	3.47	0.200	"	"	"	"	"	"	
Nickel	1.20	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	4.89	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by HACH M8023

Date Sampled: **04/16/25 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BID1006	04/17/25	04/17/25	Hach 8000	

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

Date Sampled: **04/16/25 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	323	0.0500	mg/L dry	1	BID0983	04/16/25	04/18/25	EPA 6020B	
Magnesium	21.9	0.0500	"	"	"	"	"	"	
Sodium	0.297	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/16/25 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.00432	0.00100	units	1	BID1068	04/18/25	04/18/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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 9446 Clermont St.
 Thornton CO, 80119

Project: Chevron - Sater CC 18-14

Project Number: 31584
 Project Manager: David Stainback

Reported:
 05/22/25 11:12

PWV01-S@3'
2504285-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/16/25 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.9		%	1	BID0995	04/17/25	04/17/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/16/25 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.139	0.0100	mmhos/cm	1	BID0985	04/16/25	04/17/25	EPA 120.1	

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

Date Sampled: **04/16/25 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.35		pH Units	1	BID0984	04/16/25	04/17/25	EPA 9045D	

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Project: Chevron - Sater CC 18-14

Project Number: 31584
Project Manager: David Stainback

Reported:
05/22/25 11:12

PWV02@5'
2504285-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/16/25 11:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BID0978	04/16/25	04/17/25	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: **04/16/25 11:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0289	72.2 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0381	95.3 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0398	99.4 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/16/25 11:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BID0982	04/16/25	04/17/25	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **04/16/25 11:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	7.07	56.6 %		50-140		"	"	"	"	

PAH by EPA Method 8270D SIM

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Thornton CO, 80119

Project: Chevron - Sater CC 18-14

Project Number: 31584
Project Manager: David Stainback

Reported:
05/22/25 11:12

PWV02@5'
2504285-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/16/25 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BID1154	04/22/25	05/21/25	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: **04/16/25 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0148	44.3 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0154	46.1 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/16/25 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L dry	1	BID0991	04/17/25	04/17/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/16/25 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Thornton CO, 80119

Project: Chevron - Sater CC 18-14

Project Number: 31584
Project Manager: David Stainback

Reported:
05/22/25 11:12

PWV02@5'
2504285-06 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.718	0.200	mg/kg dry	1	BID1003	04/17/25	04/18/25	EPA 6020B	
Barium	39.5	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.41	0.400	"	"	"	"	"	"	
Lead	3.47	0.200	"	"	"	"	"	"	
Nickel	1.24	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	4.86	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by HACH M8023

Date Sampled: **04/16/25 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BID1006	04/17/25	04/17/25	Hach 8000	

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

Date Sampled: **04/16/25 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	302	0.0500	mg/L dry	1	BID0983	04/16/25	04/18/25	EPA 6020B	
Magnesium	27.8	0.0500	"	"	"	"	"	"	
Sodium	6.00	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/16/25 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0886	0.00100	units	1	BID1068	04/18/25	04/18/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Project: Chevron - Sater CC 18-14

Project Number: 31584
 Project Manager: David Stainback

Reported:
 05/22/25 11:12

PWV02@5'
2504285-06 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/16/25 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.4		%	1	BID0995	04/17/25	04/17/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/16/25 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.284	0.0100	mmhos/cm	1	BID0985	04/16/25	04/17/25	EPA 120.1	

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

Date Sampled: **04/16/25 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.87		pH Units	1	BID0984	04/16/25	04/17/25	EPA 9045D	

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Project: Chevron - Sater CC 18-14

Project Number: 31584
Project Manager: David Stainback

Reported:
05/22/25 11:12

PWV02-N@3'
2504285-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/16/25 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BID0978	04/16/25	04/17/25	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: **04/16/25 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0311	77.7 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0402	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0364	90.9 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/16/25 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BID0982	04/16/25	04/17/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/16/25 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	8.28	66.2 %	50-140		"	"	"	"	

PAH by EPA Method 8270D SIM

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9446 Clermont St.
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Project: Chevron - Sater CC 18-14

Project Number: 31584
Project Manager: David Stainback

Reported:
05/22/25 11:12

PWV02-N@3'
2504285-07 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/16/25 11:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Acenaphthene	ND	0.00500		mg/kg	1	BID1154	04/22/25	05/21/25	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: **04/16/25 11:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 2-Methylnaphthalene-d10	0.0165	49.6 %		40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0177	53.0 %		40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/16/25 11:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L dry	1	BID0991	04/17/25	04/17/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/16/25 11:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

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Project: Chevron - Sater CC 18-14

Project Number: 31584
Project Manager: David Stainback

Reported:
05/22/25 11:12

PWV02-N@3'
2504285-07 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	0.698	0.200	mg/kg dry	1	BID1005	04/17/25	04/17/25	EPA 6020B
Barium	40.9	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	1.82	0.400	"	"	"	"	"	"
Lead	3.48	0.200	"	"	"	"	"	"
Nickel	1.17	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	4.32	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by HACH M8023

Date Sampled: **04/16/25 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BID1006	04/17/25	04/17/25	Hach 8000	

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

Date Sampled: **04/16/25 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	110	0.0500	mg/L dry	1	BID0983	04/16/25	04/18/25	EPA 6020B	
Magnesium	19.3	0.0500	"	"	"	"	"	"	
Sodium	2.23	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/16/25 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0516	0.00100	units	1	BID1068	04/18/25	04/18/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Project: Chevron - Sater CC 18-14

Project Number: 31584
 Project Manager: David Stainback

Reported:
 05/22/25 11:12

PWV02-N@3'
2504285-07 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/16/25 11:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	94.5			%	1	BID0995	04/17/25	04/17/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/16/25 11:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.128	0.0100		mmhos/cm	1	BID0985	04/16/25	04/17/25	EPA 120.1	

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

Date Sampled: **04/16/25 11:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.46			pH Units	1	BID0984	04/16/25	04/17/25	EPA 9045D	

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Project: Chevron - Sater CC 18-14

Project Number: 31584
Project Manager: David Stainback

Reported:
05/22/25 11:12

SEP01-DL@5'
2504285-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/16/25 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BID0978	04/16/25	04/17/25	EPA 8260B	
Toluene	0.0079	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.013	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.0074	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/16/25 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0305	76.3 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0401	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0366	91.6 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/16/25 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BID0982	04/16/25	04/17/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/16/25 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	7.94	63.5 %	50-140		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Chevron - Sater CC 18-14

Project Number: 31584
Project Manager: David Stainback

Reported:
05/22/25 11:12

SEP01-DL@5'
2504285-08 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/16/25 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BID1154	04/22/25	05/21/25	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: **04/16/25 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0143	42.8 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0163	48.8 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/16/25 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L dry	1	BID0991	04/17/25	04/17/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/16/25 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Sater CC 18-14

Project Number: 31584
Project Manager: David Stainback

Reported:
05/22/25 11:12

SEP01-DL@5'
2504285-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.527	0.200	mg/kg dry	1	BID1005	04/17/25	04/17/25	EPA 6020B	
Barium	120	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.53	0.400	"	"	"	"	"	"	
Lead	3.59	0.200	"	"	"	"	"	"	
Nickel	1.21	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	4.63	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by HACH M8023

Date Sampled: **04/16/25 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BID1006	04/17/25	04/17/25	Hach 8000	

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

Date Sampled: **04/16/25 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	225	0.0500	mg/L dry	1	BID0983	04/16/25	04/18/25	EPA 6020B	
Magnesium	36.7	0.0500	"	"	"	"	"	"	
Sodium	54.2	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/16/25 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.883	0.00100	units	1	BID1068	04/18/25	04/18/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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 Thornton CO, 80119

Project: Chevron - Sater CC 18-14

Project Number: 31584
 Project Manager: David Stainback

Reported:
 05/22/25 11:12

SEP01-DL@5'
2504285-08 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/16/25 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.3		%	1	BID0995	04/17/25	04/17/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/16/25 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.345	0.0100	mmhos/cm	1	BID0985	04/16/25	04/17/25	EPA 120.1	

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

Date Sampled: **04/16/25 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.58		pH Units	1	BID0984	04/16/25	04/17/25	EPA 9045D	

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9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Sater CC 18-14

Project Number: 31584
Project Manager: David Stainback

Reported:
05/22/25 11:12

SEP02-DL@5'
2504285-09 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/16/25 12:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BID0978	04/16/25	04/17/25	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: **04/16/25 12:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0296	74.1 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0396	98.9 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0369	92.3 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/16/25 12:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BID0982	04/16/25	04/17/25	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **04/16/25 12:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	7.97	63.7 %		50-140		"	"	"	"	

PAH by EPA Method 8270D SIM

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9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Sater CC 18-14

Project Number: 31584
Project Manager: David Stainback

Reported:
05/22/25 11:12

SEP02-DL@5'
2504285-09 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/16/25 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BID1154	04/22/25	05/21/25	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: **04/16/25 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0183	54.8 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0199	59.6 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/16/25 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	4.50	2.00	mg/L dry	1	BID0991	04/17/25	04/17/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/16/25 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Sater CC 18-14

Project Number: 31584
Project Manager: David Stainback

Reported:
05/22/25 11:12

SEP02-DL@5'
2504285-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.618	0.200	mg/kg dry	1	BID1005	04/17/25	04/17/25	EPA 6020B	
Barium	35.7	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.11	0.400	"	"	"	"	"	"	
Lead	3.29	0.200	"	"	"	"	"	"	
Nickel	1.08	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	4.42	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by HACH M8023

Date Sampled: **04/16/25 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BID1006	04/17/25	04/17/25	Hach 8000	

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

Date Sampled: **04/16/25 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	135	0.0500	mg/L dry	1	BID0983	04/16/25	04/18/25	EPA 6020B	
Magnesium	19.5	0.0500	"	"	"	"	"	"	
Sodium	155	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/16/25 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.30	0.00100	units	1	BID1068	04/18/25	04/18/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Project: Chevron - Sater CC 18-14

Project Number: 31584
 Project Manager: David Stainback

Reported:
 05/22/25 11:12

SEP02-DL@5'
2504285-09 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/16/25 12:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	92.6			%	1	BID0995	04/17/25	04/17/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/16/25 12:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.461	0.0100		mmhos/cm	1	BID0985	04/16/25	04/17/25	EPA 120.1	

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

Date Sampled: **04/16/25 12:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.40			pH Units	1	BID0984	04/16/25	04/17/25	EPA 9045D	

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Project: Chevron - Sater CC 18-14

Project Number: 31584
Project Manager: David Stainback

Reported:
05/22/25 11:12

FL01-R-S@4'
2504285-10 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/16/25 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BID0978	04/16/25	04/17/25	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: **04/16/25 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0310	77.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0402	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0374	93.4 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/16/25 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BID0982	04/16/25	04/17/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/16/25 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	7.19	57.5 %	50-140		"	"	"	"	

PAH by EPA Method 8270D SIM

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9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Sater CC 18-14

Project Number: 31584
Project Manager: David Stainback

Reported:
05/22/25 11:12

FL01-R-S@4'
2504285-10 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/16/25 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BID1154	04/22/25	05/21/25	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: **04/16/25 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0231	69.2 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0251	75.3 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/16/25 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L dry	1	BID0991	04/17/25	04/17/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/16/25 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Thornton CO, 80119

Project: Chevron - Sater CC 18-14

Project Number: 31584
Project Manager: David Stainback

Reported:
05/22/25 11:12

FL01-R-S@4'
2504285-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	0.565	0.200	mg/kg dry	1	BID1005	04/17/25	04/17/25	EPA 6020B
Barium	36.2	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	1.22	0.400	"	"	"	"	"	"
Lead	3.81	0.200	"	"	"	"	"	"
Nickel	1.05	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	4.60	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by HACH M8023

Date Sampled: **04/16/25 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BID1006	04/17/25	04/17/25	Hach 8000	

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

Date Sampled: **04/16/25 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	504	0.0500	mg/L dry	1	BID0983	04/16/25	04/18/25	EPA 6020B	
Magnesium	46.7	0.0500	"	"	"	"	"	"	
Sodium	3.20	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/16/25 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0366	0.00100	units	1	BID1068	04/18/25	04/18/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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 Thornton CO, 80119

Project: Chevron - Sater CC 18-14

Project Number: 31584
 Project Manager: David Stainback

Reported:
 05/22/25 11:12

FL01-R-S@4'
2504285-10 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/16/25 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.6		%	1	BID0995	04/17/25	04/17/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/16/25 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.271	0.0100	mmhos/cm	1	BID0985	04/16/25	04/17/25	EPA 120.1	

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

Date Sampled: **04/16/25 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.06		pH Units	1	BID0984	04/16/25	04/17/25	EPA 9045D	

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Thornton CO, 80119

Project: Chevron - Sater CC 18-14

Project Number: 31584
Project Manager: David Stainback

Reported:
05/22/25 11:12

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 BID0978 - EPA 5030 Soil MS

Blank (BID0978-BLK1)

Prepared: 04/16/25 Analyzed: 04/17/25

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	0.0292		"	0.0400		73.1	50-150			
Surrogate: Toluene-d8	0.0388		"	0.0400		97.0	50-150			
Surrogate: 4-Bromofluorobenzene	0.0359		"	0.0400		89.8	50-150			

LCS (BID0978-BS1)

Prepared: 04/16/25 Analyzed: 04/17/25

Benzene	0.0986	0.0020	mg/kg	0.100		98.6	70-130			
Toluene	0.0980	0.0050	"	0.100		98.0	70-130			
Ethylbenzene	0.0996	0.0050	"	0.100		99.6	70-130			
m,p-Xylene	0.198	0.010	"	0.200		99.0	70-130			
o-Xylene	0.0934	0.0050	"	0.100		93.4	70-130			
1,2,4-Trimethylbenzene	0.0964	0.0050	"	0.100		96.4	70-130			
1,3,5-Trimethylbenzene	0.0945	0.0050	"	0.100		94.5	70-130			
Naphthalene	0.0923	0.0038	"	0.100		92.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0330		"	0.0400		82.5	50-150			
Surrogate: Toluene-d8	0.0409		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0382		"	0.0400		95.6	50-150			

Matrix Spike (BID0978-MS1)

Source: 2504282-01

Prepared: 04/16/25 Analyzed: 04/17/25

Benzene	0.0885	0.0020	mg/kg	0.100	ND	88.5	70-130			
Toluene	0.0886	0.0050	"	0.100	ND	88.6	70-130			
Ethylbenzene	0.0886	0.0050	"	0.100	ND	88.6	70-130			
m,p-Xylene	0.176	0.010	"	0.200	ND	87.9	70-130			
o-Xylene	0.0806	0.0050	"	0.100	ND	80.6	70-130			
1,2,4-Trimethylbenzene	0.0831	0.0050	"	0.100	ND	83.1	70-130			
1,3,5-Trimethylbenzene	0.0830	0.0050	"	0.100	ND	83.0	70-130			
Naphthalene	0.0834	0.0038	"	0.100	ND	83.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0351		"	0.0400		87.7	50-150			
Surrogate: Toluene-d8	0.0401		"	0.0400		100	50-150			
Surrogate: 4-Bromofluorobenzene	0.0378		"	0.0400		94.6	50-150			

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 9446 Clermont St.
 Thornton CO, 80119

Project: Chevron - Sater CC 18-14

Project Number: 31584
 Project Manager: David Stainback

Reported:
 05/22/25 11:12

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 BID0978 - EPA 5030 Soil MS

Matrix Spike Dup (BID0978-MSD1)	Source: 2504282-01			Prepared: 04/16/25 Analyzed: 04/17/25						
Benzene	0.0830	0.0020	mg/kg	0.100	ND	83.0	70-130	6.37	30	
Toluene	0.0837	0.0050	"	0.100	ND	83.7	70-130	5.75	30	
Ethylbenzene	0.0851	0.0050	"	0.100	ND	85.1	70-130	4.04	30	
m,p-Xylene	0.170	0.010	"	0.200	ND	85.2	70-130	3.12	30	
o-Xylene	0.0780	0.0050	"	0.100	ND	78.0	70-130	3.37	30	
1,2,4-Trimethylbenzene	0.0796	0.0050	"	0.100	ND	79.6	70-130	4.24	30	
1,3,5-Trimethylbenzene	0.0801	0.0050	"	0.100	ND	80.1	70-130	3.61	30	
Naphthalene	0.0799	0.0038	"	0.100	ND	79.9	70-130	4.30	30	
Surrogate: 1,2-Dichloroethane-d4	0.0338		"	0.0400		84.5	50-150			
Surrogate: Toluene-d8	0.0411		"	0.0400		103	50-150			
Surrogate: 4-Bromofluorobenzene	0.0383		"	0.0400		95.7	50-150			

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CDH Consulting
 9446 Clermont St.
 Thornton CO, 80119

Project: Chevron - Sater CC 18-14

Project Number: 31584
 Project Manager: David Stainback

Reported:
 05/22/25 11:12

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 BID0982 - EPA 3550A

Blank (BID0982-BLK1)

Prepared: 04/16/25 Analyzed: 04/17/25

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	11.8		"	12.5		94.4	50-140				

LCS (BID0982-BS1)

Prepared: 04/16/25 Analyzed: 04/17/25

C10-C28 (DRO)	378	50	mg/kg	500		75.5	50-140				
Surrogate: <i>o</i> -Terphenyl	11.5		"	12.5		91.9	50-140				

Matrix Spike (BID0982-MS1)

Source: 2504282-01

Prepared: 04/16/25 Analyzed: 04/17/25

C10-C28 (DRO)	342	50	mg/kg	500	ND	68.5	50-140				
Surrogate: <i>o</i> -Terphenyl	8.33		"	12.5		66.6	50-140				

Matrix Spike Dup (BID0982-MSD1)

Source: 2504282-01

Prepared: 04/16/25 Analyzed: 04/17/25

C10-C28 (DRO)	336	50	mg/kg	500	ND	67.3	50-140	1.72	20		
Surrogate: <i>o</i> -Terphenyl	9.26		"	12.5		74.1	50-140				

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Thornton CO, 80119

Project: Chevron - Sater CC 18-14

Project Number: 31584
Project Manager: David Stainback

Reported:
05/22/25 11:12

PAH by EPA Method 8270D SIM - Quality Control

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

Batch BID1154 - EPA 5030 Soil MS

Blank (BID1154-BLK1)

Prepared: 04/22/25 Analyzed: 05/20/25

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	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0200</i>		<i>"</i>	<i>0.0333</i>		<i>59.9</i>	<i>40-140</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0196</i>		<i>"</i>	<i>0.0333</i>		<i>58.9</i>	<i>40-140</i>			

LCS (BID1154-BS1)

Prepared: 04/22/25 Analyzed: 05/20/25

Acenaphthene	0.0162	0.00500	mg/kg	0.0333		48.5	40-140			
Anthracene	0.0154	0.00500	"	0.0333		46.1	40-140			
Benzo (a) anthracene	0.0158	0.00500	"	0.0333		47.4	40-140			
Benzo (a) pyrene	0.0149	0.00500	"	0.0333		44.8	40-140			
Benzo (b) fluoranthene	0.0160	0.00500	"	0.0333		48.0	40-140			
Benzo (k) fluoranthene	0.0161	0.00500	"	0.0333		48.4	40-140			
Chrysene	0.0161	0.00500	"	0.0333		48.4	40-140			
Dibenz (a,h) anthracene	0.0136	0.00500	"	0.0333		40.7	40-140			
Fluoranthene	0.0159	0.00500	"	0.0333		47.6	40-140			
Fluorene	0.0161	0.00500	"	0.0333		48.4	40-140			
Indeno (1,2,3-cd) pyrene	0.0148	0.00500	"	0.0333		44.5	40-140			
Pyrene	0.0152	0.00500	"	0.0333		45.7	40-140			
1-Methylnaphthalene	0.0160	0.00500	"	0.0333		48.0	40-140			
2-Methylnaphthalene	0.0162	0.00500	"	0.0333		48.5	40-140			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0180</i>		<i>"</i>	<i>0.0333</i>		<i>54.0</i>	<i>40-140</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0180</i>		<i>"</i>	<i>0.0333</i>		<i>54.1</i>	<i>40-140</i>			

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Project: Chevron - Sater CC 18-14

Project Number: 31584
Project Manager: David Stainback

Reported:
05/22/25 11:12

PAH by EPA Method 8270D SIM - Quality Control

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

Batch BID1154 - EPA 5030 Soil MS

Matrix Spike (BID1154-MS1)		Source: 2504282-03			Prepared: 04/22/25		Analyzed: 05/20/25	
Acenaphthene	0.0138	0.00500	mg/kg	0.0333	ND	41.6	40-140	
Anthracene	0.0132	0.00500	"	0.0333	ND	39.5	40-140	QM-05
Benzo (a) anthracene	0.0138	0.00500	"	0.0333	ND	41.5	40-140	
Benzo (a) pyrene	0.0127	0.00500	"	0.0333	ND	38.1	40-140	QM-05
Benzo (b) fluoranthene	0.0139	0.00500	"	0.0333	ND	41.8	40-140	
Benzo (k) fluoranthene	0.0139	0.00500	"	0.0333	ND	41.8	40-140	
Chrysene	0.0140	0.00500	"	0.0333	ND	42.0	40-140	
Dibenz (a,h) anthracene	0.0118	0.00500	"	0.0333	ND	35.4	40-140	QM-05
Fluoranthene	0.0143	0.00500	"	0.0333	ND	42.9	40-140	
Fluorene	0.0137	0.00500	"	0.0333	ND	41.1	40-140	
Indeno (1,2,3-cd) pyrene	0.0130	0.00500	"	0.0333	ND	39.0	40-140	QM-05
Pyrene	0.0128	0.00500	"	0.0333	ND	38.4	40-140	QM-05
1-Methylnaphthalene	0.0137	0.00500	"	0.0333	ND	41.2	40-140	
2-Methylnaphthalene	0.0138	0.00500	"	0.0333	ND	41.4	40-140	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0157</i>		<i>"</i>	<i>0.0333</i>		<i>47.0</i>	<i>40-140</i>	
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0161</i>		<i>"</i>	<i>0.0333</i>		<i>48.2</i>	<i>40-140</i>	

Matrix Spike Dup (BID1154-MSD1)		Source: 2504282-03			Prepared: 04/22/25		Analyzed: 05/20/25	
Acenaphthene	0.0166	0.00500	mg/kg	0.0333	ND	49.8	40-140	18.0 30
Anthracene	0.0156	0.00500	"	0.0333	ND	46.8	40-140	17.0 30
Benzo (a) anthracene	0.0162	0.00500	"	0.0333	ND	48.7	40-140	16.0 30
Benzo (a) pyrene	0.0152	0.00500	"	0.0333	ND	45.8	40-140	18.3 30
Benzo (b) fluoranthene	0.0164	0.00500	"	0.0333	ND	49.2	40-140	16.3 30
Benzo (k) fluoranthene	0.0165	0.00500	"	0.0333	ND	49.6	40-140	17.0 30
Chrysene	0.0168	0.00500	"	0.0333	ND	50.5	40-140	18.2 30
Dibenz (a,h) anthracene	0.0144	0.00500	"	0.0333	ND	43.3	40-140	20.0 30
Fluoranthene	0.0161	0.00500	"	0.0333	ND	48.3	40-140	11.7 30
Fluorene	0.0159	0.00500	"	0.0333	ND	47.8	40-140	14.9 30
Indeno (1,2,3-cd) pyrene	0.0152	0.00500	"	0.0333	ND	45.7	40-140	15.8 30
Pyrene	0.0149	0.00500	"	0.0333	ND	44.8	40-140	15.3 30
1-Methylnaphthalene	0.0156	0.00500	"	0.0333	ND	46.9	40-140	13.0 30
2-Methylnaphthalene	0.0159	0.00500	"	0.0333	ND	47.7	40-140	14.2 30
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0177</i>		<i>"</i>	<i>0.0333</i>		<i>53.2</i>	<i>40-140</i>	
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0182</i>		<i>"</i>	<i>0.0333</i>		<i>54.7</i>	<i>40-140</i>	

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 9446 Clermont St.
 Thornton CO, 80119

Project: Chevron - Sater CC 18-14

Project Number: 31584
 Project Manager: David Stainback

Reported:
 05/22/25 11:12

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

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

Batch BID0991 - EPA 3050B

Blank (BID0991-BLK1)

Prepared & Analyzed: 04/17/25

Boron ND 2.00 mg/L wet

LCS (BID0991-BS1)

Prepared & Analyzed: 04/17/25

Boron 4.88 2.00 mg/L wet 5.00 97.6 80-120

Duplicate (BID0991-DUP1)

Source: 2504279-01

Prepared & Analyzed: 04/17/25

Boron 0.120 2.00 mg/L dry 0.131 8.67 20

Matrix Spike (BID0991-MS1)

Source: 2504279-01

Prepared & Analyzed: 04/17/25

Boron 5.17 2.00 mg/L dry 5.13 0.131 98.3 75-125

Matrix Spike Dup (BID0991-MSD1)

Source: 2504279-01

Prepared & Analyzed: 04/17/25

Boron 5.20 2.00 mg/L dry 5.13 0.131 98.8 75-125 0.524 25

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Project: Chevron - Sater CC 18-14

Project Number: 31584
Project Manager: David Stainback

Reported:
05/22/25 11:12

Total Metals by EPA 6020B - Quality Control
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Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch BID1003 - EPA 3050B

Blank (BID1003-BLK1)

Prepared & Analyzed: 04/17/25

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 (BID1003-BS1)

Prepared: 04/17/25 Analyzed: 04/18/25

Arsenic	39.0	0.200	mg/kg wet	41.0	95.2	80-120
Barium	36.5	0.400	"	41.0	89.0	80-120
Cadmium	1.94	0.200	"	2.05	94.5	80-120
Copper	40.6	0.400	"	41.0	99.0	80-120
Lead	19.1	0.200	"	20.5	93.1	80-120
Nickel	38.9	0.400	"	41.0	94.9	80-120
Silver	1.87	0.0200	"	2.05	91.1	80-120
Zinc	37.8	0.400	"	41.0	92.1	80-120
Selenium	3.93	0.260	"	4.10	95.8	80-120

Duplicate (BID1003-DUP1)

Source: 2504282-01

Prepared: 04/17/25 Analyzed: 04/18/25

Arsenic	1.15	0.200	mg/kg dry	1.12	2.14	20	
Barium	190	0.400	"	138	31.2	20	QR-04
Cadmium	0.170	0.200	"	0.138	20.3	20	QR-01
Copper	2.64	0.400	"	2.38	10.4	20	
Lead	8.51	0.200	"	7.30	15.3	20	
Nickel	2.80	0.400	"	2.52	10.5	20	
Silver	0.0234	0.0200	"	0.0176	28.4	20	QR-04
Zinc	8.08	0.400	"	7.42	8.51	20	
Selenium	ND	0.260	"	ND		20	

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Project: Chevron - Sater CC 18-14

Project Number: 31584
Project Manager: David Stainback

Reported:
05/22/25 11:12

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 BID1003 - EPA 3050B

Matrix Spike (BID1003-MS1)	Source: 2504282-01			Prepared: 04/17/25 Analyzed: 04/18/25								
Arsenic	10.4	0.200	mg/kg dry	49.7	1.12	18.6	75-125					QM-05
Barium	221	0.400	"	49.7	138	166	75-125					QM-05
Cadmium	2.39	0.200	"	2.49	0.138	90.5	75-125					
Copper	12.0	0.400	"	49.7	2.38	19.3	75-125					QM-05
Lead	28.7	0.200	"	24.9	7.30	86.1	75-125					
Nickel	12.2	0.400	"	49.7	2.52	19.4	75-125					QM-05
Silver	2.29	0.0200	"	2.49	0.0176	91.6	75-125					
Zinc	17.2	0.400	"	49.7	7.42	19.7	75-125					QM-05
Selenium	4.42	0.260	"	4.97	ND	89.0	75-125					

Matrix Spike Dup (BID1003-MSD1)	Source: 2504282-01			Prepared: 04/17/25 Analyzed: 04/18/25								
Arsenic	10.9	0.200	mg/kg dry	49.7	1.12	19.6	75-125	4.48	25			QM-05
Barium	350	0.400	"	49.7	138	426	75-125	45.1	25			QM-05
Cadmium	2.31	0.200	"	2.49	0.138	87.4	75-125	3.28	25			
Copper	12.4	0.400	"	49.7	2.38	20.2	75-125	4.02	25			QM-05
Lead	27.4	0.200	"	24.9	7.30	80.7	75-125	4.79	25			
Nickel	12.7	0.400	"	49.7	2.52	20.5	75-125	4.15	25			QM-05
Silver	2.17	0.0200	"	2.49	0.0176	86.7	75-125	5.41	25			
Zinc	18.1	0.400	"	49.7	7.42	21.6	75-125	5.11	25			QM-05
Selenium	4.70	0.260	"	4.97	ND	94.5	75-125	6.09	25			

Batch BID1005 - EPA 3050B

Blank (BID1005-BLK1)	Prepared & Analyzed: 04/17/25											
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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Thornton CO, 80119

Project: Chevron - Sater CC 18-14

Project Number: 31584
Project Manager: David Stainback

Reported:
05/22/25 11:12

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 BID1005 - EPA 3050B

LCS (BID1005-BS1)

Prepared & Analyzed: 04/17/25

Arsenic	37.7	0.200	mg/kg wet	41.0		91.9	80-120			
Barium	37.7	0.400	"	41.0		92.0	80-120			
Cadmium	1.92	0.200	"	2.05		93.9	80-120			
Copper	38.8	0.400	"	41.0		94.6	80-120			
Lead	19.6	0.200	"	20.5		95.7	80-120			
Nickel	37.7	0.400	"	41.0		92.0	80-120			
Silver	1.92	0.0200	"	2.05		93.6	80-120			
Zinc	37.9	0.400	"	41.0		92.4	80-120			
Selenium	4.35	0.260	"	4.10		106	80-120			

Duplicate (BID1005-DUP1)

Source: 2504285-07

Prepared & Analyzed: 04/17/25

Arsenic	0.692	0.200	mg/kg dry		0.698			0.887	20	
Barium	37.8	0.400	"		40.9			7.90	20	
Cadmium	0.0675	0.200	"		0.0881			26.4	20	QR-01
Copper	1.62	0.400	"		1.82			11.2	20	
Lead	3.26	0.200	"		3.48			6.35	20	
Nickel	1.20	0.400	"		1.17			2.47	20	
Silver	0.0104	0.0200	"		0.00951			9.12	20	
Zinc	4.36	0.400	"		4.32			0.947	20	
Selenium	ND	0.260	"		ND				20	

Matrix Spike (BID1005-MS1)

Source: 2504285-07

Prepared & Analyzed: 04/17/25

Arsenic	15.6	0.200	mg/kg dry	44.1	0.698	33.9	75-125			QM-05
Barium	81.6	0.400	"	44.1	40.9	92.5	75-125			
Cadmium	2.12	0.200	"	2.20	0.0881	92.1	75-125			
Copper	16.8	0.400	"	44.1	1.82	34.0	75-125			QM-05
Lead	22.9	0.200	"	22.0	3.48	87.9	75-125			
Nickel	16.4	0.400	"	44.1	1.17	34.6	75-125			QM-05
Silver	2.05	0.0200	"	2.20	0.00951	92.4	75-125			
Zinc	20.3	0.400	"	44.1	4.32	36.1	75-125			QM-05
Selenium	4.52	0.260	"	4.41	ND	103	75-125			

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Project: Chevron - Sater CC 18-14

Project Number: 31584
 Project Manager: David Stainback

Reported:
 05/22/25 11:12

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 BID1005 - EPA 3050B

Matrix Spike Dup (BID1005-MSD1)	Source: 2504285-07			Prepared & Analyzed: 04/17/25							
Arsenic	14.4	0.200	mg/kg dry	42.3	0.698	32.4	75-125	8.21	25		QM-05
Barium	80.0	0.400	"	42.3	40.9	92.3	75-125	2.08	25		
Cadmium	2.02	0.200	"	2.12	0.0881	91.1	75-125	4.94	25		
Copper	15.5	0.400	"	42.3	1.82	32.3	75-125	8.12	25		QM-05
Lead	21.4	0.200	"	21.2	3.48	84.5	75-125	6.70	25		
Nickel	15.2	0.400	"	42.3	1.17	33.1	75-125	7.91	25		QM-05
Silver	1.90	0.0200	"	2.12	0.00951	89.1	75-125	7.61	25		
Zinc	18.4	0.400	"	42.3	4.32	33.3	75-125	9.45	25		QM-05
Selenium	4.25	0.260	"	4.23	ND	100	75-125	6.19	25		

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CDH Consulting
 9446 Clermont St.
 Thornton CO, 80119

Project: Chevron - Sater CC 18-14

Project Number: 31584
 Project Manager: David Stainback

Reported:
 05/22/25 11:12

Hexavalent Chromium by HACH M8023 - Quality Control
Summit Scientific

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

Batch BID1006 - 3060A Mod

Blank (BID1006-BLK1)

Prepared & Analyzed: 04/17/25

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BID1006-BS1)

Prepared & Analyzed: 04/17/25

Chromium, Hexavalent 25.2 0.30 mg/kg wet 25.3 99.6 80-120

Duplicate (BID1006-DUP1)

Source: 2504285-01

Prepared & Analyzed: 04/17/25

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BID1006-MS1)

Source: 2504285-01

Prepared & Analyzed: 04/17/25

Chromium, Hexavalent 30.1 0.30 mg/kg dry 29.7 ND 102 75-125

Matrix Spike Dup (BID1006-MSD1)

Source: 2504285-01

Prepared & Analyzed: 04/17/25

Chromium, Hexavalent 27.6 0.30 mg/kg dry 28.8 ND 95.8 75-125 8.89 20

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 9446 Clermont St.
 Thornton CO, 80119

Project: Chevron - Sater CC 18-14

Project Number: 31584
 Project Manager: David Stainback

Reported:
 05/22/25 11:12

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

Summit Scientific

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

Batch BID0983 - General Preparation

Blank (BID0983-BLK1)

Prepared: 04/16/25 Analyzed: 04/18/25

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

LCS (BID0983-BS1)

Prepared: 04/16/25 Analyzed: 04/18/25

Calcium	4.69	0.0500	mg/L wet	5.00	93.8	70-130				
Magnesium	4.76	0.0500	"	5.00	95.3	70-130				
Sodium	4.81	0.0500	"	5.00	96.3	70-130				

Summit Scientific

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

Summit Scientific

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

Batch BID0995 - General Preparation

Duplicate (BID0995-DUP1)

Source: 2504273-01

Prepared & Analyzed: 04/17/25

% Solids	78.1		%		77.0			1.33	20	
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Summit Scientific

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

Summit Scientific

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

Batch BID0985 - General Preparation

Blank (BID0985-BLK1)

Prepared: 04/16/25 Analyzed: 04/17/25

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BID0985-BS1)

Prepared: 04/16/25 Analyzed: 04/17/25

Specific Conductance (EC) 0.148 0.0100 mmhos/cm 0.150 98.9 95-105

Duplicate (BID0985-DUP1)

Source: 2504282-01

Prepared: 04/16/25 Analyzed: 04/17/25

Specific Conductance (EC) 0.559 0.0100 mmhos/cm 0.537 3.92 20

Summit Scientific

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

Summit Scientific

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

Batch BID0984 - General Preparation

LCS (BID0984-BS1)

Prepared: 04/16/25 Analyzed: 04/17/25

pH	9.17	pH Units	9.18	99.9	95-105
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Duplicate (BID0984-DUP1)

Source: 2504282-01

Prepared: 04/16/25 Analyzed: 04/17/25

pH	8.15	pH Units	8.27	1.46	20
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Summit Scientific

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Notes and Definitions

- QR-04 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values. Only applies to source/DUP and MS/MSD pairs.
- 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