



**CDH Consulting**  
**David Stainback**  
**9446 Clermont St**  
**Thornton CO 80229**

**March 18, 2025**

**Project Name - Chevron - Sater C13-27D TB**

**Project Number - [none]**

Attached are your analytical results for Chevron - Sater C13-27D TB received by Origins Laboratory March 03, 2025. This project is associated with Origins project number E5C0026-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory  
303.433.1322  
projectmanager@originslab.com



**1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645**





CDH Consulting  
9446 Clermont St  
Thornton CO 80229

David Stainback  
Project Number: [none]  
Project: Chevron - Sater C13-27D TB

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BKG01@0-6"	E5C0026-01	Soil	March 3, 2025 11:30	03/03/2025 15:31
BKG01@3'	E5C0026-02	Soil	March 3, 2025 11:32	03/03/2025 15:31
BKG01@5'	E5C0026-03	Soil	March 3, 2025 11:34	03/03/2025 15:31
BKG02@0-6"	E5C0026-04	Soil	March 3, 2025 11:40	03/03/2025 15:31
BKG02@3'	E5C0026-05	Soil	March 3, 2025 11:42	03/03/2025 15:31
BKG02@5'	E5C0026-06	Soil	March 3, 2025 11:44	03/03/2025 15:31
BKG03@0-6"	E5C0026-07	Soil	March 3, 2025 11:50	03/03/2025 15:31
BKG03@3'	E5C0026-08	Soil	March 3, 2025 11:52	03/03/2025 15:31
BKG03@5'	E5C0026-09	Soil	March 3, 2025 11:54	03/03/2025 15:31

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# ORIGINS LABORATORY

CDH Consulting  
9446 Clermont St  
Thornton CO 80229

David Stainback  
Project Number: [none]  
Project: Chevron - Sater C13-27D TB

**ORIGINS**  
LABORATORY

**CDH**

Page 1 of 1

Client: CDH Consulting, LLC  
Address:

Project Manager: David Stainback

Project Name: Sater C13-27D TB

Project Number:

Telephone Number:

Collected By: [Signature]

Email Address:

Invoice/Billing Info: Chevron, Dan, PTH, SOA

Key:

W=Water

GM=Groundwater

SW=Surface Water

WM=Waste Water

S-Soil | SC-Solid | O-Oil | A-Air | G-Gas | H-Hydrocarbons | HCl-Hydrochloric | HNO3-Nitric | H2SO4-Sulfuric | NaOH-Sodium Hydroxide

Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix Preservative	Analysis	Comments
BK601e-4	3/3/25	11:30	2	WMP	X X X X X X	
BK601e-3	11/32	2	1		X X X X X X	
BK601e-5	11/34	2			X X X X X X	
BK602e-0-6	11/40	2			X X X X X X	
BK602e-3	11/42	2			X X X X X X	
BK602e-5	11/44	2			X X X X X X	
BK603e-0-6	11/50	2			X X X X X X	
BK603e-3	11/52	2			X X X X X X	
BK603e-5	11/54	2			X X X X X X	

Requisitioned By: [Signature] Date: 3/3/25 Time: 15:28 Received By: JAR Date: 3/3/25 Time: 15:21

Temp Received: 30 Received on Ice: [X] Yes [ ] No

Standard

Turnaround Time

48 Hr 72

Same Day 24 Hr

Origins Laboratory

[Signature]

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# ORIGINS

LABORATORY

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9446 Clermont St  
Thornton CO 80229

David Stainback  
Project Number: [none]  
Project: Chevron - Sater C13-27D TB

Origins Laboratory

## Sample Receipt Checklist

F-012207-01-R1  
Effective Date: 01/09/12

Origins Work Order: E5C00026

Client: CDH Consulting

Client Project ID: Sater C13-27D

Checklist Completed by: JAB/WS

Shipped Via: HD

Date/time completed: 3/3/25

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Airbill #: N/A

Matrix(s) Received: (Check all that apply): 2 Soil/Solid

Water

Other:

Cooler Number/Temperature: 1 / 3.0 °C

(Describe)

Thermometer ID: T007

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HITs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water — is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcooled analytes in order to insure sample integrity)(pH < 2 for samples preserved with HNO <sub>3</sub> , HCl, H <sub>2</sub> SO <sub>4</sub> ) / (pH > 10 for samples preserved with NaOH, Na <sub>2</sub> CO <sub>3</sub> , Na <sub>2</sub> PO <sub>4</sub> )			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to be taken in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) AS

3/14/25  
Date/Time Reviewed

Origins Laboratory

*EHO*

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CDH Consulting  
9446 Clermont St  
Thornton CO 80229

David Stainback  
Project Number: [none]  
Project: Chevron - Sater C13-27D TB

BKG01@0-6"

3/3/2025 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E5C0026-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.330	0.100	mg/L	1	B5C0425	03/04/2025	03/05/2025
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**Metals by Saturated Paste by EPA 6010**

Calcium	1.26	0.499	meq/L	10	[CALC]	03/04/2025	03/06/2025
Magnesium	0.914	0.823	"	"	"	"	"
Sodium	0.495	0.435	"	"	"	"	"

**pH in Soil by 9045D**

pH	7.38		pH Units	1	B5C0441	03/04/2025	03/06/2025
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**SAR by 20B Saturated Paste**

SAR	0.475	0.0100	SAR	1	B5C0438	03/04/2025	03/06/2025
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.469	0.00500	mmhos/cm	1	B5C0441	03/04/2025	03/06/2025
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**Table 915 metals by EPA 6020B**

Arsenic	1.74	0.256	mg/kg	10	B5C0407	03/04/2025	03/05/2025
Barium	73.1	8.82	"	"	"	"	"
Cadmium	0.125	0.0882	"	"	"	"	"
Copper	ND	8.82	"	"	"	"	"

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Thornton

CO

80229

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Project Number: [none]

Project: Chevron - Sater C13-27D TB

BKG01@0-6"

3/3/2025 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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### Origins Laboratory

E5C0026-01 (Soil)

#### Table 915 metals by EPA 6020B

Lead	6.78	0.882	mg/kg	10	B5C0407	03/04/2025	03/05/2025
Nickel	5.66	0.882	"	"	"	"	"
Selenium	ND	0.229	"	"	"	"	"
Silver	ND	0.0882	"	"	"	"	"
Zinc	38.6	32.6	"	"	"	"	"

#### Total Metals 7196A

Hexavalent Chromium	ND	0.165	0.412	mg/kg dry	1	2762695	03/14/2025	03/14/2025	U
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Origins Laboratory

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CDH Consulting  
9446 Clermont St  
Thornton CO 80229

David Stainback  
Project Number: [none]  
Project: Chevron - Sater C13-27D TB

BKG01@3'

3/3/2025 11:32:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E5C0026-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.199	0.100	mg/L	1	B5C0425	03/04/2025	03/05/2025
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**Metals by Saturated Paste by EPA 6010**

Calcium	0.803	0.499	meq/L	10	[CALC]	03/04/2025	03/06/2025
Magnesium	ND	0.823	"	"	"	"	"
Sodium	0.718	0.435	"	"	"	"	"

**pH in Soil by 9045D**

pH	8.18		pH Units	1	B5C0441	03/04/2025	03/06/2025
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**SAR by 20B Saturated Paste**

SAR	0.864	0.0100	SAR	1	B5C0438	03/04/2025	03/06/2025
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.238	0.00500	mmhos/cm	1	B5C0441	03/04/2025	03/06/2025
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**Table 915 metals by EPA 6020B**

Arsenic	1.75	0.265	mg/kg	10	B5C0407	03/04/2025	03/05/2025
Barium	47.1	9.15	"	"	"	"	"
Cadmium	ND	0.0915	"	"	"	"	"
Copper	ND	9.15	"	"	"	"	"

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Thornton

CO

80229

David Stainback

Project Number: [none]

Project: Chevron - Sater C13-27D TB

BKG01@3'

3/3/2025 11:32:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E5C0026-02 (Soil)

Table 915 metals by EPA 6020B

Lead	4.26	0.915	mg/kg	10	B5C0407	03/04/2025	03/05/2025
Nickel	4.29	0.915	"	"	"	"	"
Selenium	ND	0.238	"	"	"	"	"
Silver	ND	0.0915	"	"	"	"	"
Zinc	ND	33.8	"	"	"	"	"

Total Metals 7196A

Hexavalent Chromium	ND	0.153	0.383	mg/kg dry	1	2762695	03/14/2025	03/14/2025	U
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Thornton CO 80229

David Stainback  
Project Number: [none]  
Project: Chevron - Sater C13-27D TB

BKG01@5'

3/3/2025 11:34:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E5C0026-03 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.149	0.101	mg/L	1	B5C0425	03/04/2025	03/05/2025
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**Metals by Saturated Paste by EPA 6010**

Calcium	ND	0.499	meq/L	10	[CALC]	03/04/2025	03/06/2025
Magnesium	ND	0.823	"	"	"	"	"
Sodium	0.547	0.435	"	"	"	"	"

**pH in Soil by 9045D**

pH	8.08		pH Units	1	B5C0441	03/04/2025	03/06/2025
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**SAR by 20B Saturated Paste**

SAR	0.973	0.0100	SAR	1	B5C0438	03/04/2025	03/06/2025
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.141	0.00500	mmhos/cm	1	B5C0441	03/04/2025	03/06/2025
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**Table 915 metals by EPA 6020B**

Arsenic	1.33	0.252	mg/kg	10	B5C0407	03/04/2025	03/05/2025
Barium	40.0	8.67	"	"	"	"	"
Cadmium	ND	0.0867	"	"	"	"	"

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Project Number: [none]

Project: Chevron - Sater C13-27D TB

BKG01@5'

3/3/2025 11:34:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E5C0026-03 (Soil)**

**Table 915 metals by EPA 6020B**

Copper	ND	8.67	mg/kg	10	B5C0407	03/04/2025	03/05/2025
Lead	3.72	0.867	"	"	"	"	"
Nickel	3.40	0.867	"	"	"	"	"
Selenium	ND	0.226	"	"	"	"	"
Silver	ND	0.0867	"	"	"	"	"
Zinc	ND	32.1	"	"	"	"	"

**Total Metals 7196A**

Hexavalent Chromium	ND	0.153	0.382	mg/kg dry	1	2762695	03/14/2025	03/14/2025	U
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Thornton CO 80229

David Stainback  
Project Number: [none]  
Project: Chevron - Sater C13-27D TB

BKG02@0-6"

3/3/2025 11:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E5C0026-04 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.211	0.101	mg/L	1	B5C0425	03/04/2025	03/05/2025
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**Metals by Saturated Paste by EPA 6010**

Calcium	0.586	0.499	meq/L	10	[CALC]	03/04/2025	03/06/2025
Magnesium	ND	0.823	"	"	"	"	"
Sodium	0.519	0.435	"	"	"	"	"

**pH in Soil by 9045D**

pH	7.59		pH Units	1	B5C0441	03/04/2025	03/06/2025
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**SAR by 20B Saturated Paste**

SAR	0.711	0.0100	SAR	1	B5C0438	03/04/2025	03/06/2025
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.507	0.00500	mmhos/cm	1	B5C0441	03/04/2025	03/06/2025
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**Table 915 metals by EPA 6020B**

Arsenic	1.23	0.288	mg/kg	10	B5C0407	03/04/2025	03/05/2025
Barium	43.1	9.93	"	"	"	"	"
Cadmium	ND	0.0993	"	"	"	"	"
Copper	ND	9.93	"	"	"	"	"

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Thornton

CO

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David Stainback

Project Number: [none]

Project: Chevron - Sater C13-27D TB

BKG02@0-6"

3/3/2025 11:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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### Origins Laboratory

E5C0026-04 (Soil)

#### Table 915 metals by EPA 6020B

Lead	3.72	0.993	mg/kg	10	B5C0407	03/04/2025	03/05/2025
Nickel	3.38	0.993	"	"	"	"	"
Selenium	ND	0.258	"	"	"	"	"
Silver	ND	0.0993	"	"	"	"	"
Zinc	ND	36.8	"	"	"	"	"

#### Total Metals 7196A

Hexavalent Chromium	ND	0.156	0.391	mg/kg dry	1	2762695	03/14/2025	03/14/2025	U
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CDH Consulting  
9446 Clermont St  
Thornton CO 80229

David Stainback  
Project Number: [none]  
Project: Chevron - Sater C13-27D TB

BKG02@3'

3/3/2025 11:42:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory  
E5C0026-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.275	0.101	mg/L	1	B5C0425	03/04/2025	03/05/2025
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Metals by Saturated Paste by EPA 6010

Calcium	11.1	0.499	meq/L	10	[CALC]	03/04/2025	03/06/2025
Magnesium	6.56	0.823	"	"	"	"	"
Sodium	6.36	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.05		pH Units	1	B5C0441	03/04/2025	03/06/2025
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SAR by 20B Saturated Paste

SAR	2.14	0.0100	SAR	1	B5C0438	03/04/2025	03/06/2025
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.94	0.00500	mmhos/cm	1	B5C0441	03/04/2025	03/06/2025
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Table 915 metals by EPA 6020B

Arsenic	2.54	0.284	mg/kg	10	B5C0407	03/04/2025	03/05/2025
Barium	108	9.78	"	"	"	"	"
Cadmium	ND	0.0978	"	"	"	"	"
Copper	ND	9.78	"	"	"	"	"

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CDH Consulting

9446 Clermont St

Thornton

CO

80229

David Stainback

Project Number: [none]

Project: Chevron - Sater C13-27D TB

BKG02@3'

3/3/2025 11:42:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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### Origins Laboratory

E5C0026-05 (Soil)

#### Table 915 metals by EPA 6020B

Lead	5.91	0.978	mg/kg	10	B5C0407	03/04/2025	03/05/2025
Nickel	6.19	0.978	"	"	"	"	"
Selenium	ND	0.254	"	"	"	"	"
Silver	ND	0.0978	"	"	"	"	"
Zinc	ND	36.2	"	"	"	"	"

#### Total Metals 7196A

Hexavalent Chromium	ND	0.103	0.259	mg/kg dry	1	2762695	03/14/2025	03/14/2025	U
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9446 Clermont St  
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David Stainback  
Project Number: [none]  
Project: Chevron - Sater C13-27D TB

BKG02@5'

3/3/2025 11:44:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E5C0026-06 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.116	0.0997	mg/L	1	B5C0425	03/04/2025	03/05/2025
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**Metals by Saturated Paste by EPA 6010**

Calcium	4.04	0.499	meq/L	10	[CALC]	03/04/2025	03/06/2025
Magnesium	2.35	0.823	"	"	"	"	"
Sodium	7.20	0.435	"	"	"	"	"

**pH in Soil by 9045D**

pH	8.07		pH Units	1	B5C0441	03/04/2025	03/06/2025
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**SAR by 20B Saturated Paste**

SAR	4.03	0.0100	SAR	1	B5C0438	03/04/2025	03/06/2025
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	1.36	0.00500	mmhos/cm	1	B5C0441	03/04/2025	03/06/2025
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**Table 915 metals by EPA 6020B**

Arsenic	1.79	0.261	mg/kg	10	B5C0407	03/04/2025	03/05/2025
Barium	52.3	9.00	"	"	"	"	"
Cadmium	ND	0.0900	"	"	"	"	"
Copper	ND	9.00	"	"	"	"	"

Origins Laboratory

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CDH Consulting

9446 Clermont St

Thornton

CO

80229

David Stainback

Project Number: [none]

Project: Chevron - Sater C13-27D TB

BKG02@5'

3/3/2025 11:44:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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### Origins Laboratory

E5C0026-06 (Soil)

#### Table 915 metals by EPA 6020B

Lead	4.69	0.900	mg/kg	10	B5C0407	03/04/2025	03/05/2025
Nickel	4.50	0.900	"	"	"	"	"
Selenium	ND	0.234	"	"	"	"	"
Silver	ND	0.0900	"	"	"	"	"
Zinc	ND	33.3	"	"	"	"	"

#### Total Metals 7196A

Hexavalent Chromium	ND	0.129	0.322	mg/kg dry	1	2762695	03/14/2025	03/14/2025	U
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Origins Laboratory

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CDH Consulting  
9446 Clermont St  
Thornton CO 80229

David Stainback  
Project Number: [none]  
Project: Chevron - Sater C13-27D TB

BKG03@0-6"

3/3/2025 11:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E5C0026-07 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	1.33	0.101	mg/L	1	B5C0425	03/04/2025	03/05/2025
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**Metals by Saturated Paste by EPA 6010**

Calcium	1.29	0.499	meq/L	10	[CALC]	03/04/2025	03/06/2025
Magnesium	0.945	0.823	"	"	"	"	"
Sodium	0.472	0.435	"	"	"	"	"

**pH in Soil by 9045D**

pH	7.65		pH Units	1	B5C0441	03/04/2025	03/06/2025
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**SAR by 20B Saturated Paste**

SAR	0.446	0.0100	SAR	1	B5C0438	03/04/2025	03/06/2025
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.617	0.00500	mmhos/cm	1	B5C0441	03/04/2025	03/06/2025
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**Table 915 metals by EPA 6020B**

Arsenic	1.18	0.279	mg/kg	10	B5C0407	03/04/2025	03/05/2025
Barium	55.9	9.62	"	"	"	"	"
Cadmium	0.195	0.0962	"	"	"	"	"
Copper	ND	9.62	"	"	"	"	"

Origins Laboratory

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9446 Clermont St

Thornton

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David Stainback

Project Number: [none]

Project: Chevron - Sater C13-27D TB

BKG03@0-6"

3/3/2025 11:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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### Origins Laboratory

E5C0026-07 (Soil)

#### Table 915 metals by EPA 6020B

Lead	5.44	0.962	mg/kg	10	B5C0407	03/04/2025	03/05/2025
Nickel	3.84	0.962	"	"	"	"	"
Selenium	ND	0.250	"	"	"	"	"
Silver	ND	0.0962	"	"	"	"	"
Zinc	41.1	35.6	"	"	"	"	"

#### Total Metals 7196A

Hexavalent Chromium	ND	0.164	0.411	mg/kg dry	1	2762695	03/14/2025	03/14/2025	U
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Origins Laboratory

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9446 Clermont St  
Thornton CO 80229

David Stainback  
Project Number: [none]  
Project: Chevron - Sater C13-27D TB

BKG03@3'

3/3/2025 11:52:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E5C0026-08 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.843	0.0993	mg/L	1	B5C0425	03/04/2025	03/05/2025
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**Metals by Saturated Paste by EPA 6010**

Calcium	6.41	0.499	meq/L	10	[CALC]	03/04/2025	03/06/2025
Magnesium	3.42	0.823	"	"	"	"	"
Sodium	3.02	0.435	"	"	"	"	"

**pH in Soil by 9045D**

pH	8.09		pH Units	1	B5C0441	03/04/2025	03/06/2025
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**SAR by 20B Saturated Paste**

SAR	1.36	0.0100	SAR	1	B5C0438	03/04/2025	03/06/2025
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	1.34	0.00500	mmhos/cm	1	B5C0441	03/04/2025	03/06/2025
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**Table 915 metals by EPA 6020B**

Arsenic	3.75	0.271	mg/kg	10	B5C0407	03/04/2025	03/05/2025
Barium	156	9.34	"	"	"	"	"
Cadmium	0.254	0.0934	"	"	"	"	"
Copper	16.4	9.34	"	"	"	"	"

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9446 Clermont St

Thornton

CO

80229

David Stainback

Project Number: [none]

Project: Chevron - Sater C13-27D TB

BKG03@3'

3/3/2025 11:52:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E5C0026-08 (Soil)

Table 915 metals by EPA 6020B

Lead	13.0	0.934	mg/kg	10	B5C0407	03/04/2025	03/05/2025
Nickel	14.1	0.934	"	"	"	"	"
Selenium	ND	0.243	"	"	"	"	"
Silver	ND	0.0934	"	"	"	"	"
Zinc	72.4	34.6	"	"	"	"	"

Total Metals 7196A

Hexavalent Chromium	ND	0.154	0.384	mg/kg dry	1	2762695	03/14/2025	03/14/2025	U
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Origins Laboratory

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CDH Consulting  
9446 Clermont St  
Thornton CO 80229

David Stainback  
Project Number: [none]  
Project: Chevron - Sater C13-27D TB

BKG03@5'

3/3/2025 11:54:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E5C0026-09 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.628	0.101	mg/L	1	B5C0425	03/04/2025	03/05/2025
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**Metals by Saturated Paste by EPA 6010**

Calcium	23.0	0.499	meq/L	10	[CALC]	03/04/2025	03/06/2025
Magnesium	7.79	0.823	"	"	"	"	"
Sodium	21.3	0.435	"	"	"	"	"

**pH in Soil by 9045D**

pH	7.97		pH Units	1	B5C0441	03/04/2025	03/06/2025
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**SAR by 20B Saturated Paste**

SAR	5.44	0.0100	SAR	1	B5C0438	03/04/2025	03/06/2025
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	3.97	0.00500	mmhos/cm	1	B5C0441	03/04/2025	03/06/2025
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**Table 915 metals by EPA 6020B**

Arsenic	3.26	0.257	mg/kg	10	B5C0407	03/04/2025	03/05/2025
Barium	169	8.86	"	"	"	"	"
Cadmium	0.245	0.0886	"	"	"	"	"
Copper	16.3	8.86	"	"	"	"	"

Origins Laboratory

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9446 Clermont St

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David Stainback

Project Number: [none]

Project: Chevron - Sater C13-27D TB

BKG03@5'

3/3/2025 11:54:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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### Origins Laboratory

E5C0026-09 (Soil)

#### Table 915 metals by EPA 6020B

Lead	12.6	0.886	mg/kg	10	B5C0407	03/04/2025	03/05/2025
Nickel	13.7	0.886	"	"	"	"	"
Selenium	ND	0.230	"	"	"	"	"
Silver	ND	0.0886	"	"	"	"	"
Zinc	72.5	32.8	"	"	"	"	"

#### Total Metals 7196A

Hexavalent Chromium	ND	0.140	0.350	mg/kg dry	1	2762695	03/14/2025	03/14/2025	U
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Thornton CO 80229

David Stainback  
Project Number: [none]  
Project: Chevron - Sater C13-27D TB

Classical Chemistry Parameters - Quality Control  
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5C0425 - DTPA Sorbitol Preparation

Blank (B5C0425-BLK1)

Prepared: 03/04/2025 Analyzed: 03/05/2025

Boron ND 0.100 mg/L

Duplicate (B5C0425-DUP1)

Source: E5C0026-01

Prepared: 03/04/2025 Analyzed: 03/05/2025

Boron 0.346 0.0991 mg/L 0.330 4.64 50

Batch B5C0438 - Saturated Paste Metals

Blank (B5C0438-BLK1)

Prepared: 03/04/2025 Analyzed: 03/06/2025

SAR ND 0.0100 SAR

Calcium PPM ND 10.0 mg/L

Magnesium PPM ND 10.0 "

Sodium PPM ND 10.0 "

Duplicate (B5C0438-DUP1)

Source: E5C0023-14

Prepared: 03/04/2025 Analyzed: 03/06/2025

SAR ND 0.0100 SAR 0.144 200

Calcium PPM 44.1 10.0 mg/L 39.9 9.93 50

Magnesium PPM 4.93 10.0 " 4.35 12.5 50

Sodium PPM 7.25 10.0 " 3.58 67.8 50 QR-DUP

Origins Laboratory

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9446 Clermont St  
Thornton CO 80229

David Stainback  
Project Number: [none]  
Project: Chevron - Sater C13-27D TB

**Metals by EPA 6000/7000 Series Methods - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B5C0407 - EPA 3050B**

**Blank (B5C0407-BLK1)**

Prepared: 03/04/2025 Analyzed: 03/05/2025

Arsenic	ND	0.290	mg/kg
Barium	ND	10.0	"
Cadmium	ND	0.100	"
Copper	ND	10.0	"
Lead	ND	1.00	"
Nickel	ND	1.00	"
Selenium	ND	0.260	"
Silver	ND	0.100	"
Zinc	ND	37.0	"

**LCS (B5C0407-BS1)**

Prepared: 03/04/2025 Analyzed: 03/05/2025

Arsenic	5.15	0.290	mg/kg	5.00	103	80-120
Barium	560	10.0	"	500	112	80-120
Cadmium	5.22	0.100	"	5.00	104	80-120
Copper	54.5	10.0	"	50.0	109	80-120
Lead	5.12	1.00	"	5.00	102	80-120
Nickel	5.10	1.00	"	5.00	102	80-120
Selenium	5.24	0.260	"	5.00	105	80-120
Silver	5.06	0.100	"	5.00	101	80-120
Zinc	55.0	37.0	"	50.0	110	80-120

**Matrix Spike (B5C0407-MS1)**

**Source: E5C0019-01**

Prepared: 03/04/2025 Analyzed: 03/05/2025

Arsenic	11.0	0.282	mg/kg	4.87	5.73	108	75-125
Barium	901	9.74	"	487	255	133	75-125
Cadmium	5.56	0.0974	"	4.87	0.201	110	75-125
Copper	67.1	9.74	"	48.7	14.7	108	75-125
Lead	18.6	0.974	"	4.87	12.8	118	75-125

Origins Laboratory

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9446 Clermont St  
Thornton CO 80229

David Stainback  
Project Number: [none]  
Project: Chevron - Sater C13-27D TB

**Metals by EPA 6000/7000 Series Methods - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B5C0407 - EPA 3050B**

**Matrix Spike (B5C0407-MS1)**

**Source: E5C0019-01**

Prepared: 03/04/2025 Analyzed: 03/05/2025

Nickel	21.8	0.974	mg/kg	4.87	16.3	114	75-125			
Selenium	5.20	0.253	"	4.87	0.126	104	75-125			
Silver	5.30	0.0974	"	4.87	0.0633	108	75-125			
Zinc	121	36.0	"	48.7	64.0	116	75-125			

**Matrix Spike Dup (B5C0407-MSD1)**

**Source: E5C0019-01**

Prepared: 03/04/2025 Analyzed: 03/05/2025

Arsenic	11.4	0.287	mg/kg	4.95	5.73	115	75-125	3.99	20	
Barium	893	9.89	"	495	255	129	75-125	0.802	20	QM-07
Cadmium	5.54	0.0989	"	4.95	0.201	108	75-125	0.372	20	
Copper	68.4	9.89	"	49.5	14.7	109	75-125	1.91	20	
Lead	19.8	0.989	"	4.95	12.8	141	75-125	6.44	20	QM-07
Nickel	21.5	0.989	"	4.95	16.3	106	75-125	1.35	20	
Selenium	5.43	0.257	"	4.95	0.126	107	75-125	4.27	20	
Silver	5.37	0.0989	"	4.95	0.0633	107	75-125	1.35	20	
Zinc	121	36.6	"	49.5	64.0	115	75-125	0.0213	20	

Origins Laboratory

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80229

David Stainback

Project Number: [none]

Project: Chevron - Sater C13-27D TB

**Saturated Paste - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B5C0441 - Saturated Paste pH/EC**

**Blank (B5C0441-BLK1)**

Prepared: 03/04/2025 Analyzed: 03/06/2025

Specific Conductance (EC) ND 0.00500 mmhos/cm

**Duplicate (B5C0441-DUP1)**

**Source: E5C0023-14**

Prepared: 03/04/2025 Analyzed: 03/06/2025

pH 8.09 pH Units 8.08 0.124 25

Specific Conductance (EC) 0.277 0.00500 mmhos/cm 0.242 13.7 25

Origins Laboratory

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9446 Clermont St

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David Stainback

Project Number: [none]

Project: Chevron - Sater C13-27D TB

**Total Metals 7196A - Quality Control**  
**GEL Laboratories, LLC**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 2762695 - SW846 3060A</b>										
<b>BLANK (1206030952-BLK)</b>										
					Prepared: 03/14/2025 Analyzed: 03/14/2025					
Hexavalent Chromium	ND	0.364	mg/kg				-			U
<b>LCS (1206030953-BKS)</b>										
					Prepared: 03/14/2025 Analyzed: 03/14/2025					
Hexavalent Chromium	2.74	0.274	mg/kg	2.74		100	80-120			
<b>DUP (1206030954 D)</b>										
					Source: 712066001					
					Prepared: 03/14/2025 Analyzed: 03/14/2025					
Hexavalent Chromium	ND	0.287	mg/kg dry		<0.115		0-50	N/A	50	U
<b>MS (1206030955 S)</b>										
					Source: 712066001					
					Prepared: 03/14/2025 Analyzed: 03/14/2025					
Hexavalent Chromium	1.46	0.287	mg/kg dry	2.87	<0.115	50.6	75-125			
<b>DUP (1206030956 D)</b>										
					Source: 712066002					
					Prepared: 03/14/2025 Analyzed: 03/14/2025					
Hexavalent Chromium	ND	0.288	mg/kg dry		<0.115		0-50	N/A	50	U
<b>MS (1206030957 S)</b>										
					Source: 712066002					
					Prepared: 03/14/2025 Analyzed: 03/14/2025					
Hexavalent Chromium	1.18	0.288	mg/kg dry	2.88	<0.115	39.6	75-125			
<b>ILCS (1206030958-ILCS)</b>										
					Prepared: 03/14/2025 Analyzed: 03/14/2025					
Hexavalent Chromium	6.57	0.311	mg/kg	6.26		105	80-120			

Origins Laboratory

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9446 Clermont St

Thornton

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80229

David Stainback

Project Number: [none]

Project: Chevron - Sater C13-27D TB

### Notes and Definitions

U Result not detected above the detection limit

QR-DUP RPD exceeds QC acceptance criteria, this indicates source sample is not homogenous.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory

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