

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

April 23, 2025

David Stainback
CDH Consulting
9446 Clermont St.
Thornton, CO 80119

RE: Chevron - Lucci B 01-23 WH
Work Order #2503266

Enclosed are the results of analyses for samples received by Summit Scientific on 03/21/25 14:09. 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 - Lucci B 01-23 WH

Project Number: [none]
Project Manager: David Stainback

Reported:
04/23/25 11:30

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH01@6'	2503266-01	Soil	03/21/25 10:11	03/21/25 14:09
WH01-N@5'	2503266-02	Soil	03/21/25 10:25	03/21/25 14:09
WH01-E@5'	2503266-03	Soil	03/21/25 10:30	03/21/25 14:09
WH01-W@5'	2503266-04	Soil	03/21/25 10:32	03/21/25 14:09
WH01-S@5'	2503266-05	Soil	03/21/25 10:35	03/21/25 14:09
BKG01@5.5'	2503266-06	Soil	03/21/25 11:15	03/21/25 14:09
BKG02@5.5'	2503266-07	Soil	03/21/25 11:25	03/21/25 14:09
BKG03@5.5'	2503266-08	Soil	03/21/25 11:30	03/21/25 14:09
GW01@6'	2503266-09	Water	03/21/25 10:45	03/21/25 14:09

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

Lab ID	Page	of
2503266		

Client: <i>CDH Consulting</i>		Send Data To: Project Manager: <i>David Steinback</i>		Send Invoice To: Company: <i>Chevron - Susan Davidson</i>	
Address: <i>9446 Clermont St</i>		E-Mail: <i>dsteinback@cdhconsult.com, enaka@cdhconsult.com</i>		Project Name/Location: <i>Lucci B 01-23 WH</i>	
City/State/Zip: <i>Thornton CO</i>		cc: <i>RBUEVF27@chevron.com</i>		AFE#:	
Phone: <i>(970) 403-4108</i>		Project Name: <i>Lucci B 01-23 WH</i>		PO/Billing Codes:	
Sampler Name: <i>EW</i>		Project Number:		Contact:	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested						Special Instructions		
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	Full Table 915-1	Table 915-1 inorganics	Table 915-1 Metals	BTEX, TMS + N	TDS	Chlorides		Sulfates	
1	WH01 @ 6'	3/21/25	1011	2			X						X								# 915-1 organics on same day TAT
2	WH01-N @ 5'		1025										X								
3	WH01-E @ 5'		1030										X								
4	WH01-W @ 5'		1032										X								everything else on 72hr
5	WH01-S @ 5'		1035										X								
6	BK501 @ 5.5'		1115											X	X						
7	BK502 @ 5.5'		1125											X	X						
8	BK503 @ 5.5'		1130											X	X						
9	GW01 @ 6'		1045						X								X	X	X	X	
10																					
11																					
12																					
13																					
14																					
15																					

Relinquished by: <i>MA Yuh</i>	Date/Time: <i>3/21/25 @ 1407</i>	Received by: <i>Andrew</i>	Date/Time: <i>3/21/25 14:09</i>	TAT Business Days	Field DO	Notes:	
				Same Day	X		Field EC
				1 Day			Field ORP
				2 Days			Field pH
				3 Days	X		Field Temp.
				Standard		Field Turb.	
Temperature Upon Receipt: <i>3.4</i>	Corrected Temperature	IR gun #: <i>2</i>	HNO3 lot #:				

S₂

S2 Work Order# 2503266

Sample Receipt Checklist

Client: CDH Consulting Client Project ID: CHEVRON-Lucci B01-23 WH

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

Matrix (Circle all that apply) Air/Soil/Water/Other Temp (°C) 3.4 Thermometer # 2

Bottle ware (Circle all that apply) Glass Jar/Voa/Amber/Poly/Other

Table with 5 columns: Question, Yes, No, N/A, Comments (if any). Rows include questions about cooling, custody seals, sample due dates, analysis types, COC forms, sample integrity, volume, bottleware, COC agreement, sample IDs, headspace, preservation, pH, and field filtering.

Control Form #: SRC-001

AS Custodian Printed Name

3/25/25 Date/Time



CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Lucci B 01-23 WH

Project Number: [none]
Project Manager: David Stainback

Reported:
04/23/25 11:30

WH01@6'
2503266-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/21/25 10:11**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BIC1311	03/21/25	03/22/25	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: **03/21/25 10:11**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0374	93.6 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0389	97.4 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0382	95.6 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/21/25 10:11**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BIC1314	03/21/25	03/22/25	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **03/21/25 10:11**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	8.41	67.3 %		50-140		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Chevron - Lucci B 01-23 WH

Project Number: [none]
Project Manager: David Stainback

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WH01@6'
2503266-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/21/25 10:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIC1520	03/25/25	04/10/25	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: **03/21/25 10:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0249	74.8 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0223	66.9 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/21/25 10:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIC1373	03/24/25	03/24/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/21/25 10:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Chevron - Lucci B 01-23 WH

Project Number: [none]
Project Manager: David Stainback

Reported:
04/23/25 11:30

WH01@6'
2503266-01 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	1.35	0.200	mg/kg dry	1	BIC1345	03/23/25	03/27/25	EPA 6020B
Barium	6.22	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	1.08	0.400	"	"	"	"	"	"
Lead	2.43	0.200	"	"	"	"	"	"
Nickel	1.02	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	5.21	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/21/25 10:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIC1394	03/24/25	03/24/25	EPA 7196A	

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

Date Sampled: **03/21/25 10:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	90.7	0.0500	mg/L dry	1	BIC1320	03/21/25	03/24/25	EPA 6020B	
Magnesium	29.0	0.0500	"	"	"	"	"	"	
Sodium	201	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/21/25 10:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.70	0.00100	units	1	BIC1534	03/25/25	03/25/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Project Number: [none]
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Reported:
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WH01@6'
2503266-01 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/21/25 10:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.0		%	1	BIC1348	03/23/25	03/23/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/21/25 10:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.70	0.0100	mmhos/cm	1	BIC1322	03/21/25	03/24/25	EPA 120.1	

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

Date Sampled: **03/21/25 10:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.62		pH Units	1	BIC1321	03/21/25	03/24/25	EPA 9045D	

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Project: Chevron - Lucci B 01-23 WH

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Project Manager: David Stainback

Reported:
04/23/25 11:30

WH01-N@5'
2503266-02 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/21/25 10:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BIC1311	03/21/25	03/22/25	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: **03/21/25 10:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0360	90.1 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0393	98.2 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0384	95.9 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/21/25 10:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BIC1314	03/21/25	03/22/25	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **03/21/25 10:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	7.37	59.0 %		50-140		"	"	"	"	

PAH by EPA Method 8270D SIM

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WH01-N@5'
2503266-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/21/25 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIC1520	03/25/25	04/10/25	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: **03/21/25 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0249	74.7 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0216	64.9 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/21/25 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIC1373	03/24/25	03/24/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/21/25 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Chevron - Lucci B 01-23 WH

Project Number: [none]
Project Manager: David Stainback

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04/23/25 11:30

WH01-N@5'
2503266-02 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	1.79	0.200	mg/kg dry	1	BIC1345	03/23/25	03/27/25	EPA 6020B
Barium	14.4	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	1.99	0.400	"	"	"	"	"	"
Lead	3.49	0.200	"	"	"	"	"	"
Nickel	2.16	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	9.88	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/21/25 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIC1394	03/24/25	03/24/25	EPA 7196A	

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

Date Sampled: **03/21/25 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	44.4	0.0500	mg/L dry	1	BIC1320	03/21/25	03/24/25	EPA 6020B	
Magnesium	16.9	0.0500	"	"	"	"	"	"	
Sodium	141	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/21/25 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.57	0.00100	units	1	BIC1534	03/25/25	03/25/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Project Number: [none]
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WH01-N@5'
2503266-02 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/21/25 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.9		%	1	BIC1348	03/23/25	03/23/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/21/25 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.03	0.0100	mmhos/cm	1	BIC1322	03/21/25	03/24/25	EPA 120.1	

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

Date Sampled: **03/21/25 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.47		pH Units	1	BIC1321	03/21/25	03/24/25	EPA 9045D	

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Project: Chevron - Lucci B 01-23 WH

Project Number: [none]
Project Manager: David Stainback

Reported:
04/23/25 11:30

WH01-E@5'
2503266-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/21/25 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BIC1311	03/21/25	03/22/25	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: **03/21/25 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0387	96.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0396	99.1 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0396	99.1 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/21/25 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BIC1314	03/21/25	03/22/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/21/25 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	7.47	59.7 %	50-140		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Lucci B 01-23 WH

Project Number: [none]
Project Manager: David Stainback

Reported:
04/23/25 11:30

WH01-E@5'
2503266-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/21/25 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIC1520	03/25/25	04/10/25	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: **03/21/25 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0219	65.6 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0200	60.1 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/21/25 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIC1373	03/24/25	03/24/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/21/25 10:30**

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 - Lucci B 01-23 WH

Project Number: [none]
Project Manager: David Stainback

Reported:
04/23/25 11:30

WH01-E@5'
2503266-03 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.92	0.200	mg/kg dry	1	BIC1345	03/23/25	03/27/25	EPA 6020B	
Barium	69.2	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.43	0.400	"	"	"	"	"	"	
Lead	5.69	0.200	"	"	"	"	"	"	
Nickel	3.30	0.400	"	"	"	"	"	"	
Silver	0.0241	0.0200	"	"	"	"	"	"	
Zinc	13.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/21/25 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIC1394	03/24/25	03/24/25	EPA 7196A	

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

Date Sampled: **03/21/25 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	52.5	0.0500	mg/L dry	1	BIC1320	03/21/25	03/24/25	EPA 6020B	
Magnesium	28.6	0.0500	"	"	"	"	"	"	
Sodium	303	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/21/25 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	8.36	0.00100	units	1	BIC1534	03/25/25	03/25/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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CDH Consulting
 9446 Clermont St.
 Thornton CO, 80119

Project: Chevron - Lucci B 01-23 WH

Project Number: [none]
 Project Manager: David Stainback

Reported:
 04/23/25 11:30

WH01-E@5'
2503266-03 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/21/25 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.9		%	1	BIC1348	03/23/25	03/23/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/21/25 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.19	0.0100	mmhos/cm	1	BIC1322	03/21/25	03/24/25	EPA 120.1	

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

Date Sampled: **03/21/25 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.33		pH Units	1	BIC1321	03/21/25	03/24/25	EPA 9045D	

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Project: Chevron - Lucci B 01-23 WH

Project Number: [none]
Project Manager: David Stainback

Reported:
04/23/25 11:30

WH01-W@5'
2503266-04 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/21/25 10:32**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BIC1311	03/21/25	03/22/25	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: **03/21/25 10:32**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0382	95.5 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0408	102 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0390	97.4 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/21/25 10:32**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BIC1314	03/21/25	03/22/25	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **03/21/25 10:32**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	7.44	59.5 %		50-140		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Chevron - Lucci B 01-23 WH

Project Number: [none]
Project Manager: David Stainback

Reported:
04/23/25 11:30

WH01-W@5'
2503266-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/21/25 10:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIC1520	03/25/25	04/10/25	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: **03/21/25 10:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0227	68.1 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0194	58.1 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/21/25 10:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIC1373	03/24/25	03/24/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/21/25 10:32**

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

Project: Chevron - Lucci B 01-23 WH

Project Number: [none]
Project Manager: David Stainback

Reported:
04/23/25 11:30

WH01-W@5'
2503266-04 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	1.68	0.200	mg/kg dry	1	BIC1345	03/23/25	03/27/25	EPA 6020B
Barium	44.6	0.400	"	"	"	"	"	"
Cadmium	0.369	0.200	"	"	"	"	"	"
Copper	3.03	0.400	"	"	"	"	"	"
Lead	18.0	0.200	"	"	"	"	"	"
Nickel	2.62	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	53.2	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/21/25 10:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIC1394	03/24/25	03/24/25	EPA 7196A	

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

Date Sampled: **03/21/25 10:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	49.6	0.0500	mg/L dry	1	BIC1320	03/21/25	03/24/25	EPA 6020B	
Magnesium	16.7	0.0500	"	"	"	"	"	"	
Sodium	156	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/21/25 10:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.89	0.00100	units	1	BIC1534	03/25/25	03/25/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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CDH Consulting
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 Thornton CO, 80119

Project: Chevron - Lucci B 01-23 WH

Project Number: [none]
 Project Manager: David Stainback

Reported:
 04/23/25 11:30

WH01-W@5'
2503266-04 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/21/25 10:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.1		%	1	BIC1348	03/23/25	03/23/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/21/25 10:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.50	0.0100	mmhos/cm	1	BIC1322	03/21/25	03/24/25	EPA 120.1	

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

Date Sampled: **03/21/25 10:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.52		pH Units	1	BIC1321	03/21/25	03/24/25	EPA 9045D	

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Thornton CO, 80119

Project: Chevron - Lucci B 01-23 WH

Project Number: [none]
Project Manager: David Stainback

Reported:
04/23/25 11:30

WH01-S@5'
2503266-05 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/21/25 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BIC1311	03/21/25	03/22/25	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: **03/21/25 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0283	70.7 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0404	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0373	93.3 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/21/25 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BIC1314	03/21/25	03/23/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/21/25 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	7.82	62.6 %	50-140		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Lucci B 01-23 WH

Project Number: [none]
Project Manager: David Stainback

Reported:
04/23/25 11:30

WH01-S@5'
2503266-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/21/25 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIC1520	03/25/25	04/10/25	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: **03/21/25 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0241	72.4 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0213	63.8 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/21/25 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIC1373	03/24/25	03/24/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/21/25 10:35**

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

Project: Chevron - Lucci B 01-23 WH

Project Number: [none]
Project Manager: David Stainback

Reported:
04/23/25 11:30

WH01-S@5'
2503266-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.74	0.200	mg/kg dry	1	BIC1345	03/23/25	03/27/25	EPA 6020B	
Barium	44.3	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.76	0.400	"	"	"	"	"	"	
Lead	6.44	0.200	"	"	"	"	"	"	
Nickel	2.66	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	12.1	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/21/25 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIC1394	03/24/25	03/24/25	EPA 7196A	

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

Date Sampled: **03/21/25 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	78.3	0.0500	mg/L dry	1	BIC1320	03/21/25	03/24/25	EPA 6020B	
Magnesium	33.8	0.0500	"	"	"	"	"	"	
Sodium	362	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/21/25 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	8.61	0.00100	units	1	BIC1534	03/25/25	03/25/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Lucci B 01-23 WH

Project Number: [none]
Project Manager: David Stainback

Reported:
04/23/25 11:30

WH01-S@5'
2503266-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/21/25 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.4		%	1	BIC1348	03/23/25	03/23/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/21/25 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.309	0.0100	mmhos/cm	1	BIC1322	03/21/25	03/24/25	EPA 120.1	

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

Date Sampled: **03/21/25 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.45		pH Units	1	BIC1321	03/21/25	03/24/25	EPA 9045D	

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Thornton CO, 80119

Project: Chevron - Lucci B 01-23 WH

Project Number: [none]
Project Manager: David Stainback

Reported:
04/23/25 11:30

BKG01@5.5'
2503266-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/21/25 11:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BIC1373	03/24/25	03/24/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/21/25 11:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	1.44	0.200		mg/kg dry	1	BIC1345	03/23/25	03/27/25	EPA 6020B	
Barium	24.1	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
Copper	2.23	0.400		"	"	"	"	"	"	
Lead	3.48	0.200		"	"	"	"	"	"	
Nickel	2.24	0.400		"	"	"	"	"	"	
Silver	ND	0.0200		"	"	"	"	"	"	
Zinc	9.55	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/21/25 11:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BIC1394	03/24/25	03/24/25	EPA 7196A	

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

Date Sampled: **03/21/25 11:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	70.8	0.0500		mg/L dry	1	BIC1320	03/21/25	03/24/25	EPA 6020B	
Magnesium	64.8	0.0500		"	"	"	"	"	"	
Sodium	601	0.0500		"	"	"	"	"	"	

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9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Lucci B 01-23 WH

Project Number: [none]
Project Manager: David Stainback

Reported:
04/23/25 11:30

BKG01@5.5'
2503266-06 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/21/25 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	12.4	0.00100	units	1	BIC1534	03/25/25	03/25/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/21/25 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.7		%	1	BIC1348	03/23/25	03/23/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/21/25 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.568	0.0100	mmhos/cm	1	BIC1322	03/21/25	03/24/25	EPA 120.1	

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

Date Sampled: **03/21/25 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.25		pH Units	1	BIC1321	03/21/25	03/24/25	EPA 9045D	

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Project: Chevron - Lucci B 01-23 WH

Project Number: [none]
Project Manager: David Stainback

Reported:
04/23/25 11:30

BKG02@5.5'
2503266-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/21/25 11:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIC1373	03/24/25	03/24/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/21/25 11:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.29	0.200	mg/kg dry	1	BIC1345	03/23/25	03/27/25	EPA 6020B	
Barium	27.2	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.69	0.400	"	"	"	"	"	"	
Lead	2.78	0.200	"	"	"	"	"	"	
Nickel	1.88	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	8.41	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/21/25 11:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIC1394	03/24/25	03/24/25	EPA 7196A	

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

Date Sampled: **03/21/25 11:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	92.7	0.500	mg/L dry	10	BIC1320	03/21/25	03/25/25	EPA 6020B	
Magnesium	185	0.500	"	"	"	"	"	"	
Sodium	2770	0.500	"	"	"	"	"	"	

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Project: Chevron - Lucci B 01-23 WH

Project Number: [none]
Project Manager: David Stainback

Reported:
04/23/25 11:30

BKG02@5.5'
2503266-07 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/21/25 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	38.2	0.00100	units	1	BIC1534	03/25/25	03/25/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/21/25 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.9		%	1	BIC1348	03/23/25	03/23/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/21/25 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.186	0.0100	mmhos/cm	1	BIC1322	03/21/25	03/24/25	EPA 120.1	

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

Date Sampled: **03/21/25 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.92		pH Units	1	BIC1321	03/21/25	03/24/25	EPA 9045D	

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Thornton CO, 80119

Project: Chevron - Lucci B 01-23 WH

Project Number: [none]
Project Manager: David Stainback

Reported:
04/23/25 11:30

BKG03@5.5'
2503266-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/21/25 11:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BIC1373	03/24/25	03/24/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/21/25 11:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	2.19	0.200		mg/kg dry	1	BIC1345	03/23/25	03/27/25	EPA 6020B	
Barium	64.9	0.400		"	"	"	"	"	"	
Cadmium	0.241	0.200		"	"	"	"	"	"	
Copper	4.18	0.400		"	"	"	"	"	"	
Lead	6.54	0.200		"	"	"	"	"	"	
Nickel	3.63	0.400		"	"	"	"	"	"	
Silver	0.0401	0.0200		"	"	"	"	"	"	
Zinc	17.4	0.400		"	"	"	"	"	"	
Selenium	0.277	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/21/25 11:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BIC1394	03/24/25	03/24/25	EPA 7196A	

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

Date Sampled: **03/21/25 11:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	34.8	0.0500		mg/L dry	1	BIC1320	03/21/25	03/24/25	EPA 6020B	
Magnesium	32.6	0.0500		"	"	"	"	"	"	
Sodium	482	0.0500		"	"	"	"	"	"	

Calculated Analysis

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Project: Chevron - Lucci B 01-23 WH

Project Number: [none]
Project Manager: David Stainback

Reported:
04/23/25 11:30

BKG03@5.5'
2503266-08 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/21/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	14.1	0.00100	units	1	BIC1534	03/25/25	03/25/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/21/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.4		%	1	BIC1348	03/23/25	03/23/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/21/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.408	0.0100	mmhos/cm	1	BIC1322	03/21/25	03/24/25	EPA 120.1	

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

Date Sampled: **03/21/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.85		pH Units	1	BIC1321	03/21/25	03/24/25	EPA 9045D	

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Project: Chevron - Lucci B 01-23 WH

Project Number: [none]
Project Manager: David Stainback

Reported:
04/23/25 11:30

GW01@6'
2503266-09 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/21/25 10:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BIC1318	03/21/25	03/21/25	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	
Naphthalene	ND	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	

Date Sampled: **03/21/25 10:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	12.4	93.1 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	13.2	98.7 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.4	101 %		21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **03/21/25 10:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	386	0.0600		mg/L	50	BIC1678	03/27/25	04/05/25	EPA 300.0	
Sulfate	2920	0.300		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **03/21/25 10:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	5800	10.0		mg/L	1	BIC1522	03/25/25	03/28/25	SM2540C	

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Project: Chevron - Lucci B 01-23 WH

Project Number: [none]
Project Manager: David Stainback

Reported:
04/23/25 11:30

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 BIC1311 - EPA 5030 Soil MS

Blank (BIC1311-BLK1)

Prepared & Analyzed: 03/21/25

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	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0371</i>		<i>"</i>	<i>0.0400</i>		<i>92.8</i>	<i>50-150</i>				
<i>Surrogate: Toluene-d8</i>	<i>0.0409</i>		<i>"</i>	<i>0.0400</i>		<i>102</i>	<i>50-150</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0402</i>		<i>"</i>	<i>0.0400</i>		<i>100</i>	<i>50-150</i>				

LCS (BIC1311-BS1)

Prepared & Analyzed: 03/21/25

Benzene	0.103	0.0020	mg/kg	0.100		103	70-130				
Toluene	0.106	0.0050	"	0.100		106	70-130				
Ethylbenzene	0.109	0.0050	"	0.100		109	70-130				
m,p-Xylene	0.220	0.010	"	0.200		110	70-130				
o-Xylene	0.107	0.0050	"	0.100		107	70-130				
1,2,4-Trimethylbenzene	0.112	0.0050	"	0.100		112	70-130				
1,3,5-Trimethylbenzene	0.114	0.0050	"	0.100		114	70-130				
Naphthalene	0.101	0.0038	"	0.100		101	70-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0375</i>		<i>"</i>	<i>0.0400</i>		<i>93.7</i>	<i>50-150</i>				
<i>Surrogate: Toluene-d8</i>	<i>0.0401</i>		<i>"</i>	<i>0.0400</i>		<i>100</i>	<i>50-150</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0393</i>		<i>"</i>	<i>0.0400</i>		<i>98.3</i>	<i>50-150</i>				

Matrix Spike (BIC1311-MS1)

Source: 2503266-01

Prepared & Analyzed: 03/21/25

Benzene	0.103	0.0020	mg/kg	0.100	ND	103	70-130				
Toluene	0.107	0.0050	"	0.100	ND	107	70-130				
Ethylbenzene	0.110	0.0050	"	0.100	ND	110	70-130				
m,p-Xylene	0.220	0.010	"	0.200	ND	110	70-130				
o-Xylene	0.107	0.0050	"	0.100	ND	107	70-130				
1,2,4-Trimethylbenzene	0.107	0.0050	"	0.100	ND	107	70-130				
1,3,5-Trimethylbenzene	0.111	0.0050	"	0.100	ND	111	70-130				
Naphthalene	0.0952	0.0038	"	0.100	ND	95.2	70-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0389</i>		<i>"</i>	<i>0.0400</i>		<i>97.4</i>	<i>50-150</i>				
<i>Surrogate: Toluene-d8</i>	<i>0.0399</i>		<i>"</i>	<i>0.0400</i>		<i>99.8</i>	<i>50-150</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0390</i>		<i>"</i>	<i>0.0400</i>		<i>97.6</i>	<i>50-150</i>				

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Project: Chevron - Lucci B 01-23 WH

Project Number: [none]
Project Manager: David Stainback

Reported:
04/23/25 11:30

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 BIC1311 - EPA 5030 Soil MS

Matrix Spike Dup (BIC1311-MSD1)

Source: 2503266-01

Prepared & Analyzed: 03/21/25

Benzene	0.0939	0.0020	mg/kg	0.100	ND	93.9	70-130	8.95	30	
Toluene	0.0954	0.0050	"	0.100	ND	95.4	70-130	11.2	30	
Ethylbenzene	0.102	0.0050	"	0.100	ND	102	70-130	7.64	30	
m,p-Xylene	0.205	0.010	"	0.200	ND	103	70-130	6.93	30	
o-Xylene	0.0982	0.0050	"	0.100	ND	98.2	70-130	8.23	30	
1,2,4-Trimethylbenzene	0.101	0.0050	"	0.100	ND	101	70-130	6.01	30	
1,3,5-Trimethylbenzene	0.102	0.0050	"	0.100	ND	102	70-130	8.29	30	
Naphthalene	0.0943	0.0038	"	0.100	ND	94.3	70-130	0.950	30	
Surrogate: 1,2-Dichloroethane-d4	0.0365		"	0.0400		91.3	50-150			
Surrogate: Toluene-d8	0.0395		"	0.0400		98.7	50-150			
Surrogate: 4-Bromofluorobenzene	0.0384		"	0.0400		96.1	50-150			

Batch BIC1318 - EPA 5030 Water MS

Blank (BIC1318-BLK1)

Prepared & Analyzed: 03/21/25

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Naphthalene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	12.7		"	13.3		95.3	23-173			
Surrogate: Toluene-d8	13.3		"	13.3		99.7	20-170			
Surrogate: 4-Bromofluorobenzene	13.3		"	13.3		100	21-167			

LCS (BIC1318-BS1)

Prepared & Analyzed: 03/21/25

Benzene	31.5	1.0	ug/l	33.3		94.5	51-132			
Toluene	30.6	1.0	"	33.3		91.7	51-138			
Ethylbenzene	29.6	1.0	"	33.3		88.8	58-146			
m,p-Xylene	59.6	2.0	"	66.7		89.3	57-144			
o-Xylene	30.5	1.0	"	33.3		91.6	53-146			
Naphthalene	30.5	1.0	"	33.3		91.4	70-130			
1,2,4-Trimethylbenzene	30.7	1.0	"	33.3		92.1	70-130			
1,3,5-Trimethylbenzene	30.6	1.0	"	33.3		91.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	12.6		"	13.3		94.3	23-173			
Surrogate: Toluene-d8	13.5		"	13.3		101	20-170			
Surrogate: 4-Bromofluorobenzene	13.2		"	13.3		99.4	21-167			

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 9446 Clermont St.
 Thornton CO, 80119

Project: Chevron - Lucci B 01-23 WH

Project Number: [none]
 Project Manager: David Stainback

Reported:
 04/23/25 11:30

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BIC1318 - EPA 5030 Water MS

LCS Dup (BIC1318-BSD1)

Prepared & Analyzed: 03/21/25

Benzene	31.5	1.0	ug/l	33.3	94.6	51-132	0.0952	20	
Toluene	30.6	1.0	"	33.3	91.9	51-138	0.131	20	
Ethylbenzene	29.8	1.0	"	33.3	89.5	58-146	0.740	20	
m,p-Xylene	59.9	2.0	"	66.7	89.8	57-144	0.569	20	
o-Xylene	30.9	1.0	"	33.3	92.8	53-146	1.33	20	
Naphthalene	31.0	1.0	"	33.3	93.2	70-130	1.92	20	
1,2,4-Trimethylbenzene	30.4	1.0	"	33.3	91.1	70-130	1.15	20	
1,3,5-Trimethylbenzene	30.2	1.0	"	33.3	90.8	70-130	1.05	20	
Surrogate: 1,2-Dichloroethane-d4	12.4		"	13.3	93.4	23-173			
Surrogate: Toluene-d8	13.4		"	13.3	101	20-170			
Surrogate: 4-Bromofluorobenzene	13.0		"	13.3	97.6	21-167			

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CDH Consulting
 9446 Clermont St.
 Thornton CO, 80119

Project: Chevron - Lucci B 01-23 WH

Project Number: [none]
 Project Manager: David Stainback

Reported:
 04/23/25 11:30

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 BIC1314 - EPA 3550A

Blank (BIC1314-BLK1)

Prepared: 03/21/25 Analyzed: 03/22/25

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	9.07		"	12.5		72.6	50-140				

LCS (BIC1314-BS1)

Prepared: 03/21/25 Analyzed: 03/22/25

C10-C28 (DRO)	453	50	mg/kg	500		90.5	50-140				
Surrogate: <i>o</i> -Terphenyl	9.96		"	12.5		79.7	50-140				

Matrix Spike (BIC1314-MS1)

Source: 2503266-01

Prepared: 03/21/25 Analyzed: 03/22/25

C10-C28 (DRO)	448	50	mg/kg	500	16.8	86.3	50-140				
Surrogate: <i>o</i> -Terphenyl	9.86		"	12.5		78.9	50-140				

Matrix Spike Dup (BIC1314-MSD1)

Source: 2503266-01

Prepared: 03/21/25 Analyzed: 03/22/25

C10-C28 (DRO)	472	50	mg/kg	500	16.8	91.1	50-140	5.23	20		
Surrogate: <i>o</i> -Terphenyl	8.71		"	12.5		69.7	50-140				

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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Lucci B 01-23 WH

Project Number: [none]
Project Manager: David Stainback

Reported:
04/23/25 11:30

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BIC1520 - EPA 5030 Soil MS

Blank (BIC1520-BLK1)

Prepared: 03/25/25 Analyzed: 04/09/25

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>0.0304</i>		"	<i>0.0333</i>		<i>91.1</i>	<i>40-140</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0274</i>		"	<i>0.0333</i>		<i>82.1</i>	<i>40-140</i>			

LCS (BIC1520-BS1)

Prepared: 03/25/25 Analyzed: 04/09/25

Acenaphthene	0.0285	0.00500	mg/kg	0.0333		85.4	40-140			
Anthracene	0.0320	0.00500	"	0.0333		96.1	40-140			
Benzo (a) anthracene	0.0340	0.00500	"	0.0333		102	40-140			
Benzo (a) pyrene	0.0328	0.00500	"	0.0333		98.5	40-140			
Benzo (b) fluoranthene	0.0308	0.00500	"	0.0333		92.4	40-140			
Benzo (k) fluoranthene	0.0295	0.00500	"	0.0333		88.6	40-140			
Chrysene	0.0324	0.00500	"	0.0333		97.1	40-140			
Dibenz (a,h) anthracene	0.0346	0.00500	"	0.0333		104	40-140			
Fluoranthene	0.0321	0.00500	"	0.0333		96.4	40-140			
Fluorene	0.0295	0.00500	"	0.0333		88.6	40-140			
Indeno (1,2,3-cd) pyrene	0.0352	0.00500	"	0.0333		106	40-140			
Pyrene	0.0303	0.00500	"	0.0333		90.8	40-140			
1-Methylnaphthalene	0.0314	0.00500	"	0.0333		94.3	40-140			
2-Methylnaphthalene	0.0311	0.00500	"	0.0333		93.2	40-140			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0317</i>		"	<i>0.0333</i>		<i>95.2</i>	<i>40-140</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0318</i>		"	<i>0.0333</i>		<i>95.5</i>	<i>40-140</i>			

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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Lucci B 01-23 WH

Project Number: [none]
Project Manager: David Stainback

Reported:
04/23/25 11:30

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BIC1520 - EPA 5030 Soil MS

Matrix Spike (BIC1520-MS1)	Source: 2503241-02			Prepared: 03/25/25 Analyzed: 04/09/25						
Acenaphthene	0.0199	0.00500	mg/kg	0.0333	ND	59.8	40-140			
Anthracene	0.0219	0.00500	"	0.0333	ND	65.6	40-140			
Benzo (a) anthracene	0.0226	0.00500	"	0.0333	ND	67.9	40-140			
Benzo (a) pyrene	0.0205	0.00500	"	0.0333	ND	61.6	40-140			
Benzo (b) fluoranthene	0.0213	0.00500	"	0.0333	ND	63.9	40-140			
Benzo (k) fluoranthene	0.0205	0.00500	"	0.0333	ND	61.6	40-140			
Chrysene	0.0211	0.00500	"	0.0333	ND	63.4	40-140			
Dibenz (a,h) anthracene	0.0198	0.00500	"	0.0333	ND	59.3	40-140			
Fluoranthene	0.0218	0.00500	"	0.0333	ND	65.3	40-140			
Fluorene	0.0202	0.00500	"	0.0333	ND	60.6	40-140			
Indeno (1,2,3-cd) pyrene	0.0190	0.00500	"	0.0333	ND	57.0	40-140			
Pyrene	0.0245	0.00500	"	0.0333	ND	73.4	40-140			
1-Methylnaphthalene	0.0225	0.00500	"	0.0333	ND	67.4	40-140			
2-Methylnaphthalene	0.0238	0.00500	"	0.0333	ND	71.5	40-140			
Surrogate: 2-Methylnaphthalene-d10	0.0233		"	0.0333		69.8	40-140			
Surrogate: Fluoranthene-d10	0.0210		"	0.0333		63.0	40-140			

Matrix Spike Dup (BIC1520-MSD1)	Source: 2503241-02			Prepared: 03/25/25 Analyzed: 04/09/25						
Acenaphthene	0.0199	0.00500	mg/kg	0.0333	ND	59.8	40-140	0.0251	30	
Anthracene	0.0222	0.00500	"	0.0333	ND	66.5	40-140	1.39	30	
Benzo (a) anthracene	0.0226	0.00500	"	0.0333	ND	67.9	40-140	0.0398	30	
Benzo (a) pyrene	0.0207	0.00500	"	0.0333	ND	62.0	40-140	0.655	30	
Benzo (b) fluoranthene	0.0209	0.00500	"	0.0333	ND	62.6	40-140	2.06	30	
Benzo (k) fluoranthene	0.0201	0.00500	"	0.0333	ND	60.3	40-140	2.02	30	
Chrysene	0.0213	0.00500	"	0.0333	ND	64.0	40-140	0.911	30	
Dibenz (a,h) anthracene	0.0208	0.00500	"	0.0333	ND	62.5	40-140	5.28	30	
Fluoranthene	0.0211	0.00500	"	0.0333	ND	63.2	40-140	3.28	30	
Fluorene	0.0220	0.00500	"	0.0333	ND	66.1	40-140	8.72	30	
Indeno (1,2,3-cd) pyrene	0.0217	0.00500	"	0.0333	ND	65.0	40-140	13.0	30	
Pyrene	0.0240	0.00500	"	0.0333	ND	72.1	40-140	1.81	30	
1-Methylnaphthalene	0.0226	0.00500	"	0.0333	ND	67.9	40-140	0.831	30	
2-Methylnaphthalene	0.0226	0.00500	"	0.0333	ND	67.8	40-140	5.31	30	
Surrogate: 2-Methylnaphthalene-d10	0.0217		"	0.0333		65.0	40-140			
Surrogate: Fluoranthene-d10	0.0211		"	0.0333		63.4	40-140			

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CDH Consulting
 9446 Clermont St.
 Thornton CO, 80119

Project: Chevron - Lucci B 01-23 WH

Project Number: [none]
 Project Manager: David Stainback

Reported:
 04/23/25 11:30

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

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

Batch BIC1373 - EPA 3050B

Blank (BIC1373-BLK1)

Prepared & Analyzed: 03/24/25

Boron ND 2.00 mg/L

LCS (BIC1373-BS1)

Prepared & Analyzed: 03/24/25

Boron 5.11 2.00 mg/L 5.00 102 80-120

Duplicate (BIC1373-DUP1)

Source: 2503266-01

Prepared & Analyzed: 03/24/25

Boron 0.161 2.00 mg/L 0.210 26.5 20 QR-01

Matrix Spike (BIC1373-MS1)

Source: 2503266-01

Prepared & Analyzed: 03/24/25

Boron 5.20 2.00 mg/L 5.02 0.210 99.5 75-125

Matrix Spike Dup (BIC1373-MSD1)

Source: 2503266-01

Prepared & Analyzed: 03/24/25

Boron 5.34 2.00 mg/L 5.02 0.210 102 75-125 2.62 25

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CDH Consulting
9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Lucci B 01-23 WH

Project Number: [none]
Project Manager: David Stainback

Reported:
04/23/25 11:30

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 BIC1345 - EPA 3050B

Blank (BIC1345-BLK1)

Prepared: 03/23/25 Analyzed: 03/27/25

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 (BIC1345-BS1)

Prepared: 03/23/25 Analyzed: 03/27/25

Arsenic	35.7	0.200	mg/kg wet	38.5	92.9	80-120
Barium	36.3	0.400	"	38.5	94.5	80-120
Cadmium	1.78	0.200	"	1.92	92.5	80-120
Copper	37.0	0.400	"	38.5	96.2	80-120
Lead	17.9	0.200	"	19.2	93.1	80-120
Nickel	36.6	0.400	"	38.5	95.2	80-120
Silver	1.75	0.0200	"	1.92	91.2	80-120
Zinc	36.5	0.400	"	38.5	94.9	80-120
Selenium	3.90	0.260	"	3.85	101	80-120

Duplicate (BIC1345-DUP1)

Source: 2503266-01

Prepared: 03/23/25 Analyzed: 03/27/25

Arsenic	2.11	0.200	mg/kg dry	1.35	44.3	20	QR-04
Barium	4.60	0.400	"	6.22	29.9	20	QR-04
Cadmium	0.0510	0.200	"	0.0424	18.4	20	
Copper	1.47	0.400	"	1.08	31.1	20	QR-04
Lead	2.33	0.200	"	2.43	4.34	20	
Nickel	1.17	0.400	"	1.02	13.7	20	
Silver	0.00552	0.0200	"	0.00675	20.1	20	QR-01
Zinc	7.74	0.400	"	5.21	39.0	20	QR-04
Selenium	ND	0.260	"	ND		20	

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Thornton CO, 80119

Project: Chevron - Lucci B 01-23 WH

Project Number: [none]
Project Manager: David Stainback

Reported:
04/23/25 11:30

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 BIC1345 - EPA 3050B

Matrix Spike (BIC1345-MS1)	Source: 2503266-01			Prepared: 03/23/25		Analyzed: 03/27/25					
Arsenic	43.3	0.200	mg/kg dry	49.0	1.35	85.6	75-125				
Barium	55.7	0.400	"	49.0	6.22	101	75-125				
Cadmium	2.37	0.200	"	2.45	0.0424	94.8	75-125				
Copper	44.2	0.400	"	49.0	1.08	88.0	75-125				
Lead	26.2	0.200	"	24.5	2.43	96.9	75-125				
Nickel	44.0	0.400	"	49.0	1.02	87.7	75-125				
Silver	2.22	0.0200	"	2.45	0.00675	90.2	75-125				
Zinc	50.2	0.400	"	49.0	5.21	91.8	75-125				
Selenium	5.19	0.260	"	4.90	ND	106	75-125				

Matrix Spike Dup (BIC1345-MSD1)	Source: 2503266-01			Prepared: 03/23/25		Analyzed: 03/27/25					
Arsenic	36.3	0.200	mg/kg dry	45.6	1.35	76.5	75-125	17.8	25		
Barium	48.2	0.400	"	45.6	6.22	92.1	75-125	14.4	25		
Cadmium	2.11	0.200	"	2.28	0.0424	90.8	75-125	11.4	25		
Copper	36.6	0.400	"	45.6	1.08	77.9	75-125	18.9	25		
Lead	24.1	0.200	"	22.8	2.43	95.0	75-125	8.28	25		
Nickel	36.4	0.400	"	45.6	1.02	77.7	75-125	18.9	25		
Silver	2.04	0.0200	"	2.28	0.00675	89.3	75-125	8.25	25		
Zinc	42.7	0.400	"	45.6	5.21	82.2	75-125	16.2	25		
Selenium	4.30	0.260	"	4.56	ND	94.2	75-125	18.9	25		

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9446 Clermont St.
Thornton CO, 80119

Project: Chevron - Lucci B 01-23 WH

Project Number: [none]
Project Manager: David Stainback

Reported:
04/23/25 11:30

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BIC1394 - 3060A Mod

Blank (BIC1394-BLK1)

Prepared & Analyzed: 03/24/25

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BIC1394-BS1)

Prepared & Analyzed: 03/24/25

Chromium, Hexavalent 25.2 0.30 mg/kg wet 24.3 104 80-120

Duplicate (BIC1394-DUP1)

Source: 2503266-01

Prepared & Analyzed: 03/24/25

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BIC1394-MS1)

Source: 2503266-01

Prepared & Analyzed: 03/24/25

Chromium, Hexavalent 29.4 0.30 mg/kg dry 28.8 ND 102 75-125

Matrix Spike Dup (BIC1394-MSD1)

Source: 2503266-01

Prepared & Analyzed: 03/24/25

Chromium, Hexavalent 27.6 0.30 mg/kg dry 28.8 ND 95.8 75-125 6.27 20

Summit Scientific

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 Thornton CO, 80119

Project: Chevron - Lucci B 01-23 WH

Project Number: [none]
 Project Manager: David Stainback

Reported:
 04/23/25 11:30

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 BIC1320 - General Preparation

Blank (BIC1320-BLK1)

Prepared: 03/21/25 Analyzed: 03/24/25

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

LCS (BIC1320-BS1)

Prepared: 03/21/25 Analyzed: 03/24/25

Calcium	5.74	0.0500	mg/L wet	5.00	115	70-130				
Magnesium	5.53	0.0500	"	5.00	111	70-130				
Sodium	5.55	0.0500	"	5.00	111	70-130				

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 Thornton CO, 80119

Project: Chevron - Lucci B 01-23 WH

Project Number: [none]
 Project Manager: David Stainback

Reported:
 04/23/25 11:30

Anions by EPA Method 300.0 - Quality Control

Summit Scientific

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

Batch BIC1678 - General Preparation

Blank (BIC1678-BLK1)

Prepared: 03/27/25 Analyzed: 04/04/25

Chloride	ND	0.0600	mg/L						
Sulfate	ND	0.300	"						

LCS (BIC1678-BS1)

Prepared: 03/27/25 Analyzed: 04/04/25

Chloride	2.97	0.0600	mg/L	3.00	99.2	90-110		
Sulfate	14.9	0.300	"	15.0	99.6	90-110		

Duplicate (BIC1678-DUP1)

Source: 2503217-01

Prepared: 03/27/25 Analyzed: 04/04/25

Chloride	13.8	0.0600	mg/L		13.4		2.90	20
Sulfate	92.5	0.300	"		88.0		5.09	20

Matrix Spike (BIC1678-MS1)

Source: 2503217-01

Prepared: 03/27/25 Analyzed: 04/04/25

Chloride	145	0.0600	mg/L	150	13.4	88.0	80-120	
Sulfate	768	0.300	"	750	88.0	90.6	80-120	

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 Thornton CO, 80119

Project: Chevron - Lucci B 01-23 WH

Project Number: [none]
 Project Manager: David Stainback

Reported:
 04/23/25 11:30

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 BIC1348 - General Preparation

Duplicate (BIC1348-DUP1)

Source: 2503266-01

Prepared & Analyzed: 03/23/25

% Solids	84.8	%		85.0		0.171	20
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CDH Consulting
 9446 Clermont St.
 Thornton CO, 80119

Project: Chevron - Lucci B 01-23 WH

Project Number: [none]
 Project Manager: David Stainback

Reported:
 04/23/25 11:30

Total Dissolved Solids by SM2540C - Quality Control
Summit Scientific

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

Batch BIC1522 - General Preparation

Blank (BIC1522-BLK1)

Prepared: 03/25/25 Analyzed: 03/28/25

Total Dissolved Solids ND 10.0 mg/L

Duplicate (BIC1522-DUP1)

Source: 2503266-09

Prepared: 03/25/25 Analyzed: 03/28/25

Total Dissolved Solids 5720 10.0 mg/L 5800 1.39 20

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CDH Consulting
 9446 Clermont St.
 Thornton CO, 80119

Project: Chevron - Lucci B 01-23 WH

Project Number: [none]
 Project Manager: David Stainback

Reported:
 04/23/25 11:30

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 BIC1322 - General Preparation

Blank (BIC1322-BLK1)

Prepared: 03/21/25 Analyzed: 03/24/25

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BIC1322-BS1)

Prepared: 03/21/25 Analyzed: 03/24/25

Specific Conductance (EC) 0.151 0.0100 mmhos/cm 0.150 101 95-105

Duplicate (BIC1322-DUP1)

Source: 2503266-01

Prepared: 03/21/25 Analyzed: 03/24/25

Specific Conductance (EC) 1.65 0.0100 mmhos/cm 1.70 3.16 20

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



CDH Consulting
 9446 Clermont St.
 Thornton CO, 80119

Project: Chevron - Lucci B 01-23 WH

Project Number: [none]
 Project Manager: David Stainback

Reported:
 04/23/25 11:30

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 BIC1321 - General Preparation

LCS (BIC1321-BS1)

Prepared: 03/21/25 Analyzed: 03/24/25

pH	9.10	pH Units	9.18	99.1	95-105
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Duplicate (BIC1321-DUP1)

Source: 2503266-01

Prepared: 03/21/25 Analyzed: 03/24/25

pH	8.36	pH Units	8.62	3.06	20
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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.
- 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