



Two Dot Consulting

Kyle Johnson

2200 West 29th Ave

Denver

CO

80211

August 18, 2025

Project Name - Chevron - Ocoma C17-15

Project Number - 3301-102

Attached are your analytical results for Chevron - Ocoma C17-15 received by Origins Laboratory August 04, 2025. This project is associated with Origins project number E5H0059-01.

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



Two Dot Consulting
2200 West 29th Ave
Denver CO 80211

Kyle Johnson
Project Number: 3301-102
Project: Chevron - Ocoma C17-15

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BKG01@4'	E5H0059-01	Soil	August 4, 2025 13:28	08/04/2025 17:10
BKG01@6'	E5H0059-02	Soil	August 4, 2025 13:35	08/04/2025 17:10
BKG02@4'	E5H0059-03	Soil	August 4, 2025 14:02	08/04/2025 17:10
BKG02@6'	E5H0059-04	Soil	August 4, 2025 14:07	08/04/2025 17:10
BKG03@4'	E5H0059-05	Soil	August 4, 2025 14:22	08/04/2025 17:10
BKG03@6'	E5H0059-06	Soil	August 4, 2025 14:27	08/04/2025 17:10

Origins Laboratory

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.

ORIGINS LABORATORY

Two Dot Consulting
 2200 West 29th Ave
 Denver CO 80211

Kyle Johnson
 Project Number: 3301-102
 Project: Chevron - Ocoma C17-15



Client: Chevron
 Address: 4000 Bullington Ave
Evans, CO 80120
 Telephone Number: 470-326-2431
 Email Address: DDU.EOF.2T@Chevron.com
 Project Name: Ocoma C17-15
 Project Number: 3301-102
 Collected By: 2 dot consulting
 Invoice Billing Info: Chevron
 Project Manager: Kyle Johnson
East and Distribution list
Enthalpy email Distribution list
 Key: W=Water
GI=Groundwater
SIV=Surface Water
MW=Moose Water
L=Liquid

S=Soil | SO=Soil | A=Oil | A=Air | G=Gas | U=Urea | H=Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide

#	Sample ID	Date	Time	# of Containers	Matrix Preservatives	Analysis		Comments
						Metals	Volatiles	
1	B660104	8/1/25	12:28	3	11E	X	X	
2	B660106	1/3/25	1:35	3	11E	X	X	
3	B660204	2/2/25	2:02	3	11E	X	X	
4	B660206	2/2/25	2:07	3	11E	X	X	
5	B660304	2/2/25	2:22	3	11E	X	X	
6	B660306	2/2/25	2:22	3	11E	X	X	

Requisitioned By: Mike Lovel
 Date: 8/4/25
 Time: 17:10
 Received By: NLM
 Date: 8/4/25
 Time: 15:42
 Turnaround Time: 48 Hr 72 Hr
 SAME DAY
 Temp Received: 0.4°C
 Received on ice? Yes No

Origins Laboratory

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.

ORIGINS LABORATORY

Two Dot Consulting
2200 West 29th Ave
Denver CO 80211

Kyle Johnson
Project Number: 3301-102
Project: Chevron - Ocoma C17-15

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: ESHO059 Client: 2DD
 Client Project ID: Ocoma C17-15
 Checklist Completed by: Emily Tamm Shipped Via: HD
 Date/time completed: 8/05/25 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1 / 0.4 °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 ⁽¹⁾ ?	<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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<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 ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity) (pH <2 for samples preserved with HNO ₃ , HCl, H ₂ SO ₄) / (pH >10 for samples preserved with Na ₂ O ₂ +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

⁽¹⁾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 in the additional comments (above) and the case narrative.

Reviewed by (Project Manager)

08/06/25
Date/Time Reviewed

Origins Laboratory

ESH

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.



Two Dot Consulting
 2200 West 29th Ave
 Denver CO 80211

Kyle Johnson
 Project Number: 3301-102
 Project: Chevron - Ocoma C17-15

BKG01@4'

8/4/2025 1:28:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-----------------	-------	----------	-------	----------	----------	-------

**E5H0059-01 (Soil)
 Enthalpy Orange**

Total Metals by 7199

Hexavalent Chromium	ND	0.16	0.30	mg/Kg	1	379365	08/15/2025	08/15/2025	ND
---------------------	----	------	------	-------	---	--------	------------	------------	----

Origins Laboratory

Boron (DTPA Sorbitol)

Boron	0.712		0.0997	mg/L	1	B5H0510	08/05/2025	08/06/2025	
-------	-------	--	--------	------	---	---------	------------	------------	--

Metals by Saturated Paste by EPA 6010

Calcium	0.756		0.499	meq/L	10	[CALC]	08/05/2025	08/06/2025	
Magnesium	0.871		0.823	"	"	"	"	"	"
Sodium	4.38		0.435	"	"	"	"	"	"

pH in Soil by 9045D

pH	8.43			pH Units	1	B5H0514	08/05/2025	08/06/2025	
----	------	--	--	----------	---	---------	------------	------------	--

SAR by 20B Saturated Paste

SAR	4.85		0.0100	SAR	1	B5H0512	08/05/2025	08/06/2025	
-----	------	--	--------	-----	---	---------	------------	------------	--

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.628		0.00500	mmhos/cm	1	B5H0514	08/05/2025	08/06/2025	
---------------------------	-------	--	---------	----------	---	---------	------------	------------	--

Origins Laboratory

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.



Two Dot Consulting
 2200 West 29th Ave
 Denver CO 80211

Kyle Johnson
 Project Number: 3301-102
 Project: Chevron - Ocoma C17-15

BKG01@4'

8/4/2025 1:28:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5H0059-01 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Arsenic	7.47		0.266	mg/kg	10	B5H0544	08/05/2025	08/07/2025	
Barium	91.5		75.1	"	"	"	"	"	
Cadmium	ND		0.348	"	"	"	"	"	U
Copper	ND		42.1	"	"	"	"	"	U
Lead	ND		12.8	"	"	"	"	"	U
Nickel	ND		23.8	"	"	"	"	"	U
Selenium	0.399		0.238	"	"	"	"	"	
Silver	ND		0.733	"	"	"	"	"	U
Zinc	ND		339	"	"	"	"	"	U

Origins Laboratory

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.



Two Dot Consulting
 2200 West 29th Ave
 Denver CO 80211

Kyle Johnson
 Project Number: 3301-102
 Project: Chevron - Ocoma C17-15

BKG01@6'

8/4/2025 1:35:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5H0059-02 (Soil)									
Enthalpy Orange									
Total Metals by 7199									
Hexavalent Chromium	ND	0.15	0.29	mg/Kg	1	379365	08/15/2025	08/15/2025	ND
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	4.02		0.100	mg/L	1	B5H0510	08/05/2025	08/06/2025	
Metals by Saturated Paste by EPA 6010									
Calcium	8.37		0.499	meq/L	10	[CALC]	08/05/2025	08/06/2025	
Magnesium	16.9		0.823	"	"	"	"	"	"
Sodium	12.4		0.435	"	"	"	"	"	"
pH in Soil by 9045D									
pH	8.10			pH Units	1	B5H0514	08/05/2025	08/06/2025	
SAR by 20B Saturated Paste									
SAR	3.49		0.0100	SAR	1	B5H0512	08/05/2025	08/06/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	2.99		0.00500	mmhos/cm	1	B5H0514	08/05/2025	08/06/2025	

Origins Laboratory

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.



Two Dot Consulting
 2200 West 29th Ave
 Denver CO 80211

Kyle Johnson
 Project Number: 3301-102
 Project: Chevron - Ocoma C17-15

BKG01@6'

8/4/2025 1:35:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-----------------	-------	----------	-------	----------	----------	-------

**E5H0059-02 (Soil)
 Origins Laboratory**

Table 915 metals by EPA 6020B

Arsenic	10.5		0.260	mg/kg	10	B5H0544	08/05/2025	08/07/2025	
Barium	92.7		73.5	"	"	"	"	"	
Cadmium	ND		0.341	"	"	"	"	"	U
Copper	ND		41.3	"	"	"	"	"	U
Lead	15.2		12.6	"	"	"	"	"	
Nickel	ND		23.3	"	"	"	"	"	U
Selenium	0.658		0.233	"	"	"	"	"	
Silver	ND		0.717	"	"	"	"	"	U
Zinc	ND		332	"	"	"	"	"	U

Origins Laboratory

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.



Two Dot Consulting
 2200 West 29th Ave
 Denver CO 80211

Kyle Johnson
 Project Number: 3301-102
 Project: Chevron - Ocoma C17-15

BKG02@4'

8/4/2025 2:02:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5H0059-03 (Soil)									
Enthalpy Orange									
Total Metals by 7199									
Hexavalent Chromium	ND	0.16	0.29	mg/Kg	1	379365	08/15/2025	08/15/2025	ND
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	2.65		0.100	mg/L	1	B5H0510	08/05/2025	08/06/2025	
Metals by Saturated Paste by EPA 6010									
Calcium	2.85		0.499	meq/L	10	[CALC]	08/05/2025	08/06/2025	
Magnesium	6.82		0.823	"	"	"	"	"	"
Sodium	11.7		0.435	"	"	"	"	"	"
pH in Soil by 9045D									
pH	8.16			pH Units	1	B5H0514	08/05/2025	08/06/2025	
SAR by 20B Saturated Paste									
SAR	5.34		0.0100	SAR	1	B5H0512	08/05/2025	08/06/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	2.02		0.00500	mmhos/cm	1	B5H0514	08/05/2025	08/06/2025	

Origins Laboratory

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.



Two Dot Consulting
 2200 West 29th Ave
 Denver CO 80211

Kyle Johnson
 Project Number: 3301-102
 Project: Chevron - Ocoma C17-15

BKG02@4'

8/4/2025 2:02:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-----------------	-------	----------	-------	----------	----------	-------

**E5H0059-03 (Soil)
 Origins Laboratory**

Table 915 metals by EPA 6020B

Arsenic	8.10		0.269	mg/kg	10	B5H0544	08/05/2025	08/07/2025	
Barium	116		76.2	"	"	"	"	"	
Cadmium	ND		0.353	"	"	"	"	"	U
Copper	ND		42.7	"	"	"	"	"	U
Lead	15.8		13.0	"	"	"	"	"	
Nickel	ND		24.2	"	"	"	"	"	U
Selenium	0.521		0.242	"	"	"	"	"	
Silver	ND		0.743	"	"	"	"	"	U
Zinc	ND		344	"	"	"	"	"	U

Origins Laboratory

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.



Two Dot Consulting
 2200 West 29th Ave
 Denver CO 80211

Kyle Johnson
 Project Number: 3301-102
 Project: Chevron - Ocoma C17-15

BKG02@6'

8/4/2025 2:07:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5H0059-04 (Soil)									
Enthalpy Orange									
Total Metals by 7199									
Hexavalent Chromium	ND	0.16	0.30	mg/Kg	1	379365	08/15/2025	08/15/2025	ND
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	2.97		0.100	mg/L	1	B5H0510	08/05/2025	08/06/2025	
Metals by Saturated Paste by EPA 6010									
Calcium	26.4		0.499	meq/L	10	[CALC]	08/05/2025	08/06/2025	
Magnesium	38.6		0.823	"	"	"	"	"	"
Sodium	27.2		0.435	"	"	"	"	"	"
pH in Soil by 9045D									
pH	7.81			pH Units	1	B5H0514	08/05/2025	08/06/2025	
SAR by 20B Saturated Paste									
SAR	4.78		0.0100	SAR	1	B5H0512	08/05/2025	08/06/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	6.29		0.00500	mmhos/cm	1	B5H0514	08/05/2025	08/06/2025	

Origins Laboratory

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.



Two Dot Consulting
 2200 West 29th Ave
 Denver CO 80211

Kyle Johnson
 Project Number: 3301-102
 Project: Chevron - Ocoma C17-15

BKG02@6'

8/4/2025 2:07:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-----------------	-------	----------	-------	----------	----------	-------

**E5H0059-04 (Soil)
 Origins Laboratory**

Table 915 metals by EPA 6020B

Arsenic	8.68		0.257	mg/kg	10	B5H0544	08/05/2025	08/07/2025	
Barium	ND		72.8	"	"	"	"	"	U
Cadmium	ND		0.337	"	"	"	"	"	U
Copper	ND		40.8	"	"	"	"	"	U
Lead	14.7		12.4	"	"	"	"	"	
Nickel	ND		23.1	"	"	"	"	"	U
Selenium	0.665		0.231	"	"	"	"	"	
Silver	ND		0.710	"	"	"	"	"	U
Zinc	ND		328	"	"	"	"	"	U

Origins Laboratory

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.



Two Dot Consulting
 2200 West 29th Ave
 Denver CO 80211

Kyle Johnson
 Project Number: 3301-102
 Project: Chevron - Ocoma C17-15

BKG03@4'

8/4/2025 2:22:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5H0059-05 (Soil)									
Enthalpy Orange									
Total Metals by 7199									
Hexavalent Chromium	ND	0.16	0.30	mg/Kg	1	379365	08/15/2025	08/15/2025	ND
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	1.15		0.0998	mg/L	1	B5H0510	08/05/2025	08/06/2025	
Metals by Saturated Paste by EPA 6010									
Calcium	16.4		0.499	meq/L	10	[CALC]	08/05/2025	08/06/2025	
Magnesium	10.8		0.823	"	"	"	"	"	"
Sodium	38.3		0.435	"	"	"	"	"	"
pH in Soil by 9045D									
pH	7.92			pH Units	1	B5H0514	08/05/2025	08/06/2025	
SAR by 20B Saturated Paste									
SAR	10.4		0.0100	SAR	1	B5H0512	08/05/2025	08/06/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	5.59		0.00500	mmhos/cm	1	B5H0514	08/05/2025	08/06/2025	

Origins Laboratory

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.



Two Dot Consulting
 2200 West 29th Ave
 Denver CO 80211

Kyle Johnson
 Project Number: 3301-102
 Project: Chevron - Ocoma C17-15

BKG03@4'

8/4/2025 2:22:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-----------------	-------	----------	-------	----------	----------	-------

**E5H0059-05 (Soil)
 Origins Laboratory**

Table 915 metals by EPA 6020B

Arsenic	8.71		0.263	mg/kg	10	B5H0544	08/05/2025	08/07/2025	
Barium	ND		74.3	"	"	"	"	"	U
Cadmium	ND		0.344	"	"	"	"	"	U
Copper	ND		41.7	"	"	"	"	"	U
Lead	ND		12.7	"	"	"	"	"	U
Nickel	42.5		23.6	"	"	"	"	"	
Selenium	0.414		0.236	"	"	"	"	"	
Silver	ND		0.725	"	"	"	"	"	U
Zinc	ND		335	"	"	"	"	"	U

Origins Laboratory

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.



Two Dot Consulting
 2200 West 29th Ave
 Denver CO 80211

Kyle Johnson
 Project Number: 3301-102
 Project: Chevron - Ocoma C17-15

BKG03@6'

8/4/2025 2:27:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5H0059-06 (Soil)									
Enthalpy Orange									
Total Metals by 7199									
Hexavalent Chromium	ND	0.15	0.29	mg/Kg	1	379365	08/15/2025	08/15/2025	ND
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	1.31		0.0998	mg/L	1	B5H0510	08/05/2025	08/06/2025	
Metals by Saturated Paste by EPA 6010									
Calcium	26.4		0.499	meq/L	10	[CALC]	08/05/2025	08/06/2025	
Magnesium	14.3		0.823	"	"	"	"	"	"
Sodium	34.4		0.435	"	"	"	"	"	"
pH in Soil by 9045D									
pH	7.82			pH Units	1	B5H0514	08/05/2025	08/06/2025	
SAR by 20B Saturated Paste									
SAR	7.62		0.0100	SAR	1	B5H0512	08/05/2025	08/06/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	5.70		0.00500	mmhos/cm	1	B5H0514	08/05/2025	08/06/2025	

Origins Laboratory

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.



Two Dot Consulting
 2200 West 29th Ave
 Denver CO 80211

Kyle Johnson
 Project Number: 3301-102
 Project: Chevron - Ocoma C17-15

BKG03@6'

8/4/2025 2:27:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-----------------	-------	----------	-------	----------	----------	-------

**E5H0059-06 (Soil)
 Origins Laboratory**

Table 915 metals by EPA 6020B

Arsenic	6.83		0.262	mg/kg	10	B5H0544	08/05/2025	08/07/2025	
Barium	134		74.0	"	"	"	"	"	
Cadmium	ND		0.343	"	"	"	"	"	U
Copper	ND		41.5	"	"	"	"	"	U
Lead	13.9		12.6	"	"	"	"	"	
Nickel	ND		23.5	"	"	"	"	"	U
Selenium	0.405		0.235	"	"	"	"	"	
Silver	ND		0.722	"	"	"	"	"	U
Zinc	ND		334	"	"	"	"	"	U

Origins Laboratory

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.



Two Dot Consulting
 2200 West 29th Ave
 Denver CO 80211

Kyle Johnson
 Project Number: 3301-102
 Project: Chevron - Ocoma C17-15

Classical Chemistry Parameters - Quality Control
Origins Laboratory

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

Batch B5H0510 - DTPA Sorbitol Preparation

Blank (B5H0510-BLK1)

Prepared: 08/05/2025 Analyzed: 08/06/2025

Boron	ND	0.100	mg/L							U
-------	----	-------	------	--	--	--	--	--	--	---

Duplicate (B5H0510-DUP1)

Source: E5H0058-01

Prepared: 08/05/2025 Analyzed: 08/06/2025

Boron	0.617	0.0996	mg/L		0.640			3.61	50	
-------	-------	--------	------	--	-------	--	--	------	----	--

Batch B5H0512 - Saturated Paste Metals

Blank (B5H0512-BLK1)

Prepared: 08/05/2025 Analyzed: 08/06/2025

SAR	ND	0.0100	SAR							U
Calcium PPM	ND	10.0	mg/L							U
Magnesium PPM	ND	10.0	"							U
Sodium PPM	ND	10.0	"							U

Duplicate (B5H0512-DUP1)

Source: E5H0058-01

Prepared: 08/05/2025 Analyzed: 08/06/2025

Calcium PPM	13.5	10.0	mg/L		12.2			9.94	50	
SAR	ND	0.0100	SAR		2.68				200	U
Magnesium PPM	17.4	10.0	mg/L		16.2			7.57	50	
Sodium PPM	62.2	10.0	"		60.7			2.47	50	

Origins Laboratory

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.



Two Dot Consulting
 2200 West 29th Ave
 Denver CO 80211

Kyle Johnson
 Project Number: 3301-102
 Project: Chevron - Ocoma C17-15

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B5H0544 - EPA 3050B

Blank (B5H0544-BLK1)

Prepared: 08/05/2025 Analyzed: 08/07/2025

Arsenic	ND	0.290	mg/kg							U
Barium	ND	82.0	"							U
Cadmium	ND	0.380	"							U
Copper	ND	46.0	"							U
Lead	ND	14.0	"							U
Nickel	ND	26.0	"							U
Selenium	ND	0.260	"							U
Silver	ND	0.800	"							U
Zinc	ND	370	"							U

LCS (B5H0544-BS1)

Prepared: 08/05/2025 Analyzed: 08/07/2025

Arsenic	5.63	0.290	mg/kg	5.00		113	80-120			
Barium	545	82.0	"	500		109	80-120			
Cadmium	5.75	0.380	"	5.00		115	80-120			
Copper	58.3	46.0	"	50.0		117	80-120			
Lead	5.85	14.0	"	5.00		117	80-120			U
Nickel	5.47	26.0	"	5.00		109	80-120			U
Selenium	5.86	0.260	"	5.00		117	80-120			
Silver	5.64	0.800	"	5.00		113	80-120			
Zinc	55.9	370	"	50.0		112	80-120			U

Matrix Spike (B5H0544-MS1)

Source: E5H0059-01

Prepared: 08/05/2025 Analyzed: 08/07/2025

Arsenic	13.7	0.269	mg/kg	4.64	7.47	135	75-125			QM-07
Barium	527	76.0	"	464	91.5	93.9	75-125			
Cadmium	4.94	0.352	"	4.64	0.182	103	75-125			
Copper	62.1	42.7	"	46.4	12.7	106	75-125			
Lead	16.6	13.0	"	4.64	11.8	105	75-125			

Origins Laboratory

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.



Two Dot Consulting
 2200 West 29th Ave
 Denver CO 80211

Kyle Johnson
 Project Number: 3301-102
 Project: Chevron - Ocoma C17-15

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B5H0544 - EPA 3050B

Matrix Spike (B5H0544-MS1)

Source: E5H0059-01

Prepared: 08/05/2025 Analyzed: 08/07/2025

Nickel	14.9	24.1	mg/kg	4.64	11.5	73.1	75-125			QM-07, U
Selenium	4.82	0.241	"	4.64	0.399	95.2	75-125			
Silver	4.72	0.742	"	4.64	0.0339	101	75-125			
Zinc	96.3	343	"	46.4	46.7	107	75-125			U

Matrix Spike Dup (B5H0544-MSD1)

Source: E5H0059-01

Prepared: 08/05/2025 Analyzed: 08/07/2025

Arsenic	14.2	0.268	mg/kg	4.62	7.47	146	75-125	3.31	20	QM-07
Barium	583	75.7	"	462	91.5	106	75-125	10.1	20	
Cadmium	4.94	0.351	"	4.62	0.182	103	75-125	0.0140	20	
Copper	63.5	42.5	"	46.2	12.7	110	75-125	2.22	20	
Lead	19.6	12.9	"	4.62	11.8	170	75-125	16.5	20	QM-07
Nickel	19.2	24.0	"	4.62	11.5	166	75-125	25.1	20	QM-07, QR-DUP
Selenium	5.09	0.240	"	4.62	0.399	102	75-125	5.55	20	
Silver	4.53	0.739	"	4.62	0.0339	97.4	75-125	4.01	20	
Zinc	97.7	342	"	46.2	46.7	110	75-125	1.49	20	U

Origins Laboratory

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.



Two Dot Consulting
 2200 West 29th Ave
 Denver CO 80211

Kyle Johnson
 Project Number: 3301-102
 Project: Chevron - Ocoma C17-15

Saturated Paste - Quality Control
Origins Laboratory

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

Batch B5H0514 - Saturated Paste pH/EC

Blank (B5H0514-BLK1)

Prepared: 08/05/2025 Analyzed: 08/06/2025

Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
---------------------------	----	---------	----------	--	--	--	--	--	--	---

Duplicate (B5H0514-DUP1)

Source: E5H0058-01

Prepared: 08/05/2025 Analyzed: 08/06/2025

pH	8.44		pH Units		8.48		0.473		25	
----	------	--	----------	--	------	--	-------	--	----	--

Specific Conductance (EC)	0.496	0.00500	mmhos/cm		0.474		4.62		25	
---------------------------	-------	---------	----------	--	-------	--	------	--	----	--

Origins Laboratory

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.



Two Dot Consulting
 2200 West 29th Ave
 Denver CO 80211

Kyle Johnson
 Project Number: 3301-102
 Project: Chevron - Ocoma C17-15

**Total Metals by 7199 - Quality Control
 Enthalpy Orange**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 379365 - EPA 3060A										
BLANK (QC1284775)										
					Prepared: 08/15/2025 Analyzed: 08/15/2025					
Hexavalent Chromium	ND	0.30	mg/Kg				-			ND
LCS (QC1284776)										
					Prepared: 08/15/2025 Analyzed: 08/15/2025					
Hexavalent Chromium	38.96	0.5792	mg/Kg	38.61		101	80-120			
Duplicate (QC1284777)										
					Prepared: 08/15/2025 Analyzed: 08/15/2025					
Hexavalent Chromium	ND	0.2953	mg/Kg		0		-		30	ND
Matrix Spike (QC1284778)										
					Prepared: 08/15/2025 Analyzed: 08/15/2025					
Hexavalent Chromium	37.77	0.5769	mg/Kg	38.46	0	98	70-130			

Origins Laboratory

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.



Two Dot Consulting
2200 West 29th Ave
Denver CO 80211

Kyle Johnson
Project Number: 3301-102
Project: Chevron - Ocoma C17-15

Notes and Definitions

U Sample is Non-Detect.

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 Not Detected

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

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.