



CTEH

June 18, 2025

Kyle Lawrence

5120 North Shore Drive

North Little Rock AR 72118

Project Name - PROJ-054017

Project Number - PROJ-054017

Attached are your analytical results for PROJ-054017 received by Origins Laboratory May 29, 2025. This project is associated with Origins project number E5E1003-01.

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



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Kyle Lawrence  
Project Number: PROJ-054017  
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### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GACO0528T149-2S001	E5E1003-01	Soil	May 28, 2025 11:30	05/29/2025 07:45

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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CUSTOMER INFORMATION		PROJECT INFORMATION		ANALYSIS REQUEST		TEST INSTRUCTIONS / COMMENTS	
Company: CTEH Report to: [Blank] Email: [Blank] Address: 5100 Wendenover Dr, North Little Rock, AR 72118 Phone: [Blank] Fax: [Blank]		Name: PROJ-054017 Number: [Blank] P.O. #: [Blank] Address: [Blank] Site Name: [Blank] Global ID: [Blank]		Matrix: A = Air, S = Solid, W = Water DW = Drinking Water, P = Product, O = Oil SW = Sewerage, T = Tissue, WP = Waste WW = Wastewater, X = Other Sample type: C = Composite G = Grabbed Discrete B = Blank, O = Other		Standard: [Blank] 1 Day: [Blank] 3 Day: [Blank] 13 Day: [Blank] ASAP: [Blank]	
Phone: 800-393-1322 1725 W. 81st Ave., Denver, CO 80221		Page: [Blank] of [Blank]		Lab No: <b>ESF4003</b>		Turn around time (used by advanced notice only)	
Analytical: [Blank]		Name: [Blank]		Preservatives: 0 = none, 1 = HCl, 2 = HCl, 3 = HNO <sub>3</sub> , 4 = H <sub>2</sub> SO <sub>4</sub>		Sample Receipt Temp and Notes: <b>26°C 100V</b>	
Sample ID: 1 Date: 5/28/2025 Sampling Time (h): 11:30 Matrix type: G Pres. No.: 0 Size: 1 Inhib: 4 oz Inhib: 10		Sampling Time (h): 11:30 Matrix type: G Pres. No.: 0 Size: 1 Inhib: 4 oz Inhib: 10		Analysis Request: [Blank]		Test Instructions / Comments: [Blank]	
Signature: [Blank]		Print Name: [Blank]		Company / Title: [Blank]		Date / Time: [Blank]	
Received by: [Blank]		Received by: [Blank]		Received by: [Blank]		Received by: [Blank]	

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

### Sample Receipt Checklist

Origins Work Order: ESE1003

Client: CTEH

Client Project ID: PROJ-054017

Checklist Completed by: NKM/ND

Shipped Via: HD

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

Date/time completed: 05/29/25

Airbill #: N/A

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

Water

Other:

(Describe)

Cooler Number/Temperature: 1 / 2.6 °C

Thermometer ID: T-007

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 HTs 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? <b>If yes, contact client and note in narrative.</b>			<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 subcontracted analyses 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 Na <sub>2</sub> O <sub>2</sub> +NaOH, ZnAc <sub>2</sub> +NaOH)			<input checked="" type="checkbox"/>	
<b>Additional Comments (if any):</b>				

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

Reviewed by (Project Manager) EHD

5/29/25  
Date/Time Reviewed

Origins Laboratory



Jen Pellegrini For Jordan A. Bynon, Project Manager

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**GACO0528T149-2S001**  
**5/28/2025 11:30:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5E1003-01 (Soil)</b>									
<b>Origins Laboratory</b>									
<b>Chromium Hexavalent by EPA 7199</b>									
Hexavalent Chromium	ND		0.245	mg/kg	1	B5F0231	06/02/2025	06/14/2025	U

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**\*\*\* DEFAULT GENERAL METHOD \*\*\* - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B5F0231 - EPA 3060A</b>										
<b>Blank (B5F0231-BLK1)</b>										
					Prepared: 06/02/2025 Analyzed: 06/14/2025					
Hexavalent Chromium	ND	0.250	mg/kg							U
<b>LCS (B5F0231-BS1)</b>										
					Prepared: 06/02/2025 Analyzed: 06/14/2025					
Hexavalent Chromium	2.37	0.250	mg/kg	2.50		94.7	80-120			
<b>Matrix Spike (B5F0231-MS1)</b>										
					Source: E5E0995-09					
					Prepared: 06/02/2025 Analyzed: 06/14/2025					
Hexavalent Chromium	1.51	0.249	mg/kg	2.49	ND	60.7	75-125			QM-14
<b>Matrix Spike (B5F0231-MS2)</b>										
					Source: E5E0995-09					
					Prepared: 06/02/2025 Analyzed: 06/14/2025					
Hexavalent Chromium	161	25.8	mg/kg	287	ND	56.1	75-125			QM-14
<b>Matrix Spike Dup (B5F0231-MSD1)</b>										
					Source: E5E0995-09					
					Prepared: 06/02/2025 Analyzed: 06/14/2025					
Hexavalent Chromium	1.66	0.259	mg/kg	2.59	ND	64.0	75-125	9.19	200	QM-14
<b>Post Spike (B5F0231-PS1)</b>										
					Source: E5E0995-09					
					Prepared: 06/02/2025 Analyzed: 06/14/2025					
Hexavalent Chromium	50.7		ug/L	50.0	0.00	101	80-120			

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### Notes and Definitions

- U Sample is Non-Detect.
  - QM-14 The pre-digestion matrix spike recoveries for Cr6 were less than the acceptance range min. The soil sample reduced Cr6 and no measurable native Cr6 existed in the unspiked sample. Batch QC deemed acceptable based on passing 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.

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