



**CTEH**

**Kyle Lawrence**

**5120 North Shore Drive**

**North Little Rock AR 72118**

**June 12, 2025**

**Project Name - PROJ-054017**

**Project Number - PROJ-054017**

Attached are your analytical results for PROJ-054017 received by Origins Laboratory May 22, 2025. This project is associated with Origins project number E5E0768-01.

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**





CTEH

5120 North Shore Drive

North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: PROJ-054017

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GACO0521B20EXG5(.1)	E5E0768-01	Soil	May 21, 2025 11:50	05/22/2025 07:45
GACO0521B30EXG5(.068)	E5E0768-02	Soil	May 21, 2025 12:00	05/22/2025 07:45
GACO0521C40EXG5(.2)	E5E0768-03	Soil	May 21, 2025 14:45	05/22/2025 07:45
GACO0521M40EXG5(.3)	E5E0768-04	Soil	May 21, 2025 14:35	05/22/2025 07:45
GACO0521W40EXG5(.35)	E5E0768-05	Soil	May 21, 2025 14:50	05/22/2025 07:45

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.

Jen Pellegrini For Jordan A. Bynon, Project Manager



CTEH

5120 North Shore Drive

North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: PROJ-054017

Enthalpy Analytical - Denver		Chain of Custody Record		Turn Around Time (rush by advanced notice only)		
12755 W. Elk Place, Denver, CO 80211		Lab No: <b>ES60168</b>		Standard:	5 Day:	3 Day:
Phone 303-433-1322		Page: <b>1</b> of <b>2</b>		2 Day:	1 Day:	Custom TAT: ASAP
<b>CUSTOMER INFORMATION</b> Company: CTEH Report To: [Blank] Email: [Blank] Address: 1220 Westview Dr, North Little Rock, AR 72118 Phone: [Blank] Billing Instruction: cchap@montrose-env.com		<b>PROJECT INFORMATION</b> Name: PROJ-054017 Number: [Blank] P.O. #: [Blank] Address: Gatlin, CO Site Name: [Blank] Global ID: [Blank]		<b>ANALYSIS REQUEST</b> Matrix: A = Air, S = Soil/Solid, W = Water DW = Drinking Water, P = Product, O = Oil SD = Sediment, T = Issue, WP = Waste WW = Wastewater, X = Other Sample Type: C = Composite, G = Grab or Discrete B = Blank, 0 = Other Preservatives: 0 = none, 1 = Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> , 2 = HCl, 3 = HNO <sub>3</sub> , 4 = H <sub>2</sub> SO <sub>4</sub> , 5 = NaOH, 6 = Other Sample Receipt Temp and Notes: 2.6°C ice✓ (see use only)		
Sample ID	Sampling Date	Sampling Time (24 hr)	Sample Matrix	Cont. Pres.	Cont. No.	Cont. Site
1 GAC00521AB0EKG5 (-1)	5/21/2025	11:50 S	G	0	1	4.02 DS
2 GAC00521AB0EKG5 (-088)	5/21/2025	12:00 S	G	0	1	4.02 DS
3 GAC00521AB0EKG5 (-2)	5/21/2025	14:45 S	G	0	1	4.02 DS
4 GAC00521AB0EKG5 (-3)	5/21/2025	14:35 S	G	0	1	4.02 DS
5 GAC00521AB0EKG5 (-35)	5/21/2025	14:50 S	G	0	1	4.02 DS
6						
7						
8						
9						
10						
Relinquished By: [Signature] Received By: [Signature] Relinquished By: [Signature] Received By: [Signature]		Signature: [Signature] Print Name: Nathan Baker Company/Title: Montrose Staff Geologist Date/Time: 5/21/25 11:24				

Origins Laboratory

*Jen Pellegrini*

Jen Pellegrini For Jordan A. Bynon, Project Manager

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

CTEH

5120 North Shore Drive

North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: PROJ-054017

Origins Laboratory

## Sample Receipt Checklist

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

Origins Work Order: F5E0768

Client: CTEH

Client Project ID: PROJ-054017

Checklist Completed by: NKM/JWR

Shipped Via: HD

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

Date/time completed: 05/22/25

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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	<input 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 NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NC
Additional Comments (if any):				

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

Reviewed by (Project Manager)

05/22/25  
Date/Time Reviewed

Origins Laboratory

*Jen Pellegrini*

Jen Pellegrini For Jordan A. Bynon, Project Manager

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.





CTEH

5120 North Shore Drive

North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: PROJ-054017

**GACO0521B20EXG5(1)**

**5/21/2025 11:50:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5E0768-01 (Soil)</b>									
<b>Enthalpy Analytical</b>									
<b>Chromium Hexavalent by EPA 7199</b>									
Chromium, Hexavalent	ND		0.20	mg/kg	1	BIF0025	06/02/2025	06/04/2025	

Origins Laboratory

Jen Pellegrini For Jordan A. Bynon, Project Manager

*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.*



CTEH

5120 North Shore Drive

North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: PROJ-054017

**GACO0521B30EXG5(.068)**

**5/21/2025 12:00:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5E0768-02 (Soil)</b>									
<b>Enthalpy Analytical</b>									
<b>Chromium Hexavalent by EPA 7199</b>									
Chromium, Hexavalent	ND		0.20	mg/kg	1	BIF0025	06/02/2025	06/04/2025	

Origins Laboratory

Jen Pellegrini For Jordan A. Bynon, Project Manager

*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.*





CTEH

5120 North Shore Drive

North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: PROJ-054017

**GACO0521C40EXG5(2)**

**5/21/2025 2:45:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5E0768-03 (Soil)</b>									
<b>Enthalpy Analytical</b>									
<b>Chromium Hexavalent by EPA 7199</b>									
Chromium, Hexavalent	ND		0.20	mg/kg	1	BIF0025	06/02/2025	06/04/2025	

Origins Laboratory

Jen Pellegrini For Jordan A. Bynon, Project Manager

*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.*



CTEH

5120 North Shore Drive

North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: PROJ-054017

GACO0521M40EXG5(.3)

5/21/2025 2:35:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5E0768-04RE1 (Soil)</b>									
<b>Enthalpy Analytical</b>									
<b>Chromium Hexavalent by EPA 7199</b>									
Chromium, Hexavalent	ND		0.19	mg/kg	1	BIF0025	06/02/2025	06/06/2025	

Origins Laboratory

Jen Pellegrini For Jordan A. Bynon, Project Manager

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.





CTEH

5120 North Shore Drive

North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: PROJ-054017

**GACO0521W40EXG5(1.35)**

**5/21/2025 2:50:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5E0768-05 (Soil)</b>									
<b>Enthalpy Analytical</b>									
<b>Chromium, Hexavalent by EPA 7199</b>									
Chromium, Hexavalent	0.30		0.20	mg/kg	1	BIF0044	06/02/2025	06/05/2025	

Origins Laboratory

Jen Pellegrini For Jordan A. Bynon, Project Manager

*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.*





CTEH

5120 North Shore Drive

North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: PROJ-054017

**Chromium Hexavalent by EPA 7199 - Quality Control  
Enthalpy Analytical**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch BIF0025 - No Prep IC-WET</b>										
<b>Blank (BIF0025-BLK1)</b>					Prepared: 06/02/2025 Analyzed: 06/04/2025					
Chromium, Hexavalent	ND	0.005	mg/kg				-			
<b>LCS (BIF0025-BS1)</b>					Prepared: 06/02/2025 Analyzed: 06/04/2025					
Chromium, Hexavalent	0.05	0.005	mg/kg	0.0500		104	80-120			
<b>LCS (BIF0025-BS2)</b>					Prepared: 06/02/2025 Analyzed: 06/04/2025					
Chromium, Hexavalent	8.93	1.00	mg/kg	8.73		102	80-120			
<b>Matrix Spike (BIF0025-MS1)</b>					Source: 25E2434-04 Prepared: 06/02/2025 Analyzed: 06/04/2025					
Chromium, Hexavalent	1.66	0.20	mg/kg	2.04	ND	81.4	75-125			
<b>Matrix Spike (BIF0025-MS2)</b>					Source: 25E2434-04 Prepared: 06/02/2025 Analyzed: 06/05/2025					
Chromium, Hexavalent	1.04	0.21	mg/kg	1.03	ND	100	75-125			
<b>Matrix Spike (BIF0025-MS3)</b>					Source: 25E2434-04 Prepared: 06/02/2025 Analyzed: 06/05/2025					
Chromium, Hexavalent	1.98	0.21	mg/kg	2.06	ND	96.2	75-125			
<b>Matrix Spike Dup (BIF0025-MSD1)</b>					Source: 25E2434-04 Prepared: 06/02/2025 Analyzed: 06/04/2025					
Chromium, Hexavalent	1.25	0.19	mg/kg	1.94	ND	64.7	75-125	28.0	20	M

Origins Laboratory

Jen Pellegrini For Jordan A. Bynon, Project Manager

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.





CTEH

5120 North Shore Drive

North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: PROJ-054017

**Chromium, Hexavalent by EPA 7199 - Quality Control  
Enthalpy Analytical**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch BIF0044 - No Prep IC-WET</b>										
<b>Blank (BIF0044-BLK1)</b>					Prepared: 06/02/2025 Analyzed: 06/05/2025					
Chromium, Hexavalent	ND	0.005	mg/kg				-			
<b>LCS (BIF0044-BS1)</b>					Prepared: 06/02/2025 Analyzed: 06/05/2025					
Chromium, Hexavalent	0.05	0.005	mg/kg	0.0500		97.8	80-120			
<b>LCS (BIF0044-BS2)</b>					Prepared: 06/02/2025 Analyzed: 06/05/2025					
Chromium, Hexavalent	7.26	1.00	mg/kg	9.21		78.8	80-120			
<b>Matrix Spike (BIF0044-MS1)</b>					Source: 25E2438-11 Prepared: 06/02/2025 Analyzed: 06/05/2025					
Chromium, Hexavalent	1.23	0.21	mg/kg	2.05	ND	59.9	75-125			M
<b>Matrix Spike Dup (BIF0044-MSD1)</b>					Source: 25E2438-11 Prepared: 06/02/2025 Analyzed: 06/05/2025					
Chromium, Hexavalent	0.66	0.21	mg/kg	2.06	ND	31.9	75-125	60.7	20	M, P

Origins Laboratory

Jen Pellegrini For Jordan A. Bynon, Project Manager

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.





CTEH

5120 North Shore Drive

North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: PROJ-054017

### Notes and Definitions

P Duplicate analysis does not meet the acceptance criteria for precision

M Matrix spike recovery is outside established acceptance limits

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

Jen Pellegrini For Jordan A. Bynon, Project Manager

*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.*