



**CTEH**

**Kyle Lawrence**

**5120 North Shore Drive**

**North Little Rock AR 72118**

**June 11, 2025**

**Project Name - PROJ-054017**

**Project Number - PROJ-054017**

Attached are your analytical results for PROJ-054017 received by Origins Laboratory May 21, 2025. This project is associated with Origins project number E5E0707-01.

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
GACO0520T276S001	E5E0707-01	Soil	May 20, 2025 11:30	05/21/2025 07:45
GACO0520T276S002	E5E0707-02	Soil	May 20, 2025 11:50	05/21/2025 07:45
GACO0520T276S003	E5E0707-03	Soil	May 20, 2025 12:00	05/21/2025 07:45
GACO0520T276S004	E5E0707-04	Soil	May 20, 2025 12:20	05/21/2025 07:45
GACO0520T276S005	E5E0707-05	Soil	May 20, 2025 12:45	05/21/2025 07:45
GACO0520T276S006	E5E0707-06	Soil	May 20, 2025 13:05	05/21/2025 07:45
GACO0520T276C006	E5E0707-07	Soil	May 20, 2025 13:05	05/21/2025 07:45
GACO0520T276S007	E5E0707-08	Soil	May 20, 2025 13:35	05/21/2025 07:45
GACO0520T276S008	E5E0707-09	Soil	May 20, 2025 13:45	05/21/2025 07:45

Origins Laboratory

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Jen Pellegrini For Jordan A. Bynon, Project Manager



# ORIGINS LABORATORY

CTEH

5120 North Shore Drive

North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: PROJ-054017

ESE0707

ENTHALPY ANALYTICAL		Chain of Custody Record		Turn Around Time (rush by advanced notice only)																																																																																																															
Lab No: Page: of		Standard	1 Day	5 Day	3 Day																																																																																																														
<b>Enthalpy Analytical - Denver</b> 1725 W. Elk Place, Denver, CO 80211 Phone 303-333-1322		<b>Matrix:</b> A = Air S = Soil/Solid W = Water DW = Drinking Water P = Product O = Oil SD = Sediment T = Tissue WP = Waste WW = Wastewater X = Other	<b>Sample Type:</b> C = Composite G = Grab or Discrete B = Blank O = Other	<b>Preservatives:</b> 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 = H <sub>2</sub> O <sub>2</sub> 6 = Other	<b>ASAP</b> Sample Receipt Temp and Notes 30 55 4																																																																																																														
CUSTOMER INFORMATION		PROJECT INFORMATION		Analysis Request																																																																																																															
<b>Company:</b> CTEH <b>Report To:</b> Cheryl Bishop, Kyle Lawrence (for CTEH), Andrew Henshaw, Tom McMillan, Madelyn Williamson <b>Email:</b> cheryl.bishop@montrose-env.com, andrew.henshaw@montrose-env.com, tom.mcmillan@montrose-env.com, madelyn.williamson@montrose-env.com <b>Address:</b> 5120 Northshore Dr, North Little Rock, AR 72118 <b>Phone:</b> <b>Phone:</b>	<b>Name:</b> PROJ-054017 Bishop Loss of Containment <b>Number:</b> <b>P.O. #:</b> <b>Address:</b> Galeton, CO <b>Site Name:</b> <b>Global ID:</b> <b>Sampled By:</b> Jordan A. Bynon	<table border="1"> <thead> <tr> <th>Sample ID</th> <th>Sampling Date</th> <th>Sampling Time (24 hr)</th> <th>Matrix</th> <th>Type</th> <th>Pres.</th> <th>Cont. No.</th> <th>Cont. Size</th> <th>Initials</th> <th>MS/MSD</th> </tr> </thead> <tbody> <tr><td>1</td><td>5/20/2025</td><td>11:30 S</td><td>G</td><td>0</td><td>1</td><td>4</td><td>02</td><td>JA</td><td>X</td></tr> <tr><td>2</td><td>5/20/2025</td><td>11:50 S</td><td>G</td><td>0</td><td>1</td><td>4</td><td>02</td><td>JA</td><td>X</td></tr> <tr><td>3</td><td>5/20/2025</td><td>12:00 S</td><td>G</td><td>0</td><td>1</td><td>4</td><td>02</td><td>JA</td><td>X</td></tr> <tr><td>4</td><td>5/20/2025</td><td>12:20 S</td><td>G</td><td>0</td><td>1</td><td>4</td><td>02</td><td>JA</td><td>X</td></tr> <tr><td>5</td><td>5/20/2025</td><td>12:45 S</td><td>G</td><td>0</td><td>1</td><td>4</td><td>02</td><td>JA</td><td>X</td></tr> <tr><td>6</td><td>5/20/2025</td><td>13:05 S</td><td>G</td><td>0</td><td>1</td><td>4</td><td>02</td><td>JA</td><td>X</td></tr> <tr><td>7</td><td>5/20/2025</td><td>13:35 S</td><td>G</td><td>0</td><td>1</td><td>4</td><td>02</td><td>JA</td><td>X</td></tr> <tr><td>8</td><td>5/20/2025</td><td>13:55 S</td><td>G</td><td>0</td><td>1</td><td>4</td><td>02</td><td>JA</td><td>X</td></tr> <tr><td>9</td><td>5/20/2025</td><td>13:45 S</td><td>G</td><td>0</td><td>1</td><td>4</td><td>02</td><td>JA</td><td>X</td></tr> <tr><td>10</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>				Sample ID	Sampling Date	Sampling Time (24 hr)	Matrix	Type	Pres.	Cont. No.	Cont. Size	Initials	MS/MSD	1	5/20/2025	11:30 S	G	0	1	4	02	JA	X	2	5/20/2025	11:50 S	G	0	1	4	02	JA	X	3	5/20/2025	12:00 S	G	0	1	4	02	JA	X	4	5/20/2025	12:20 S	G	0	1	4	02	JA	X	5	5/20/2025	12:45 S	G	0	1	4	02	JA	X	6	5/20/2025	13:05 S	G	0	1	4	02	JA	X	7	5/20/2025	13:35 S	G	0	1	4	02	JA	X	8	5/20/2025	13:55 S	G	0	1	4	02	JA	X	9	5/20/2025	13:45 S	G	0	1	4	02	JA	X	10									
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<b>Relinquished By:</b> [Signature] <b>Received By:</b> [Signature] <b>Relinquished By:</b> <b>Received By:</b> <b>Relinquished By:</b> <b>Received By:</b>		<b>Signature</b> <b>Print Name</b> <b>Company / Title</b> <b>Date / Time</b>		<b>Signature</b> <b>Print Name</b> <b>Company / Title</b> <b>Date / Time</b>																																																																																																															

Origins Laboratory

*Jen Pellegrini*

Jen Pellegrini For Jordan A. Bynon, Project Manager

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# ORIGINS

## LABORATORY

CTEH

5120 North Shore Drive

North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: PROJ-054017

Origins Laboratory

F-012207-01-R1

Effective Date: 01/09/12

### Sample Receipt Checklist

Origins Work Order: ESE0707

Client: CTEH

Client Project ID: PROJ-054017

Checklist Completed by: SMY/NKM

Shipped Via: HID

Date/time completed: 5/21/15

(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 / 3.6 °C

(Describe)

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? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for 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"/>	
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) JB

Date/Time Reviewed 5/21/15

Origins Laboratory

*Jen Pellegrini*

Jen Pellegrini For Jordan A. Bynon, Project Manager

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CTEH

5120 North Shore Drive

North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

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**GACO0520T276S001**

**5/20/2025 11:30:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5E0707-01 (Soil)</b>									
<b>Origins Laboratory</b>									
<b>Chromium Hexavalent by EPA 7199</b>									
Hexavalent Chromium	ND		0.252	mg/kg	1	B5E2126	05/21/2025	06/10/2025	U

Origins Laboratory

Jen Pellegrini For Jordan A. Bynon, Project Manager

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Project Number: PROJ-054017

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**GACO0520T276S002**

**5/20/2025 11:50:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5E0707-02 (Soil)</b>									
<b>Origins Laboratory</b>									
<b>Chromium Hexavalent by EPA 7199</b>									
Hexavalent Chromium	ND		0.257	mg/kg	1	B5E2126	05/21/2025	06/10/2025	U

Origins Laboratory

Jen Pellegrini For Jordan A. Bynon, Project Manager

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CTEH

5120 North Shore Drive

North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: PROJ-054017

**GACO0520T276S003**

**5/20/2025 12:00:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5E0707-03 (Soil)</b>									
<b>Origins Laboratory</b>									
<b>Chromium Hexavalent by EPA 7199</b>									
Hexavalent Chromium	ND		0.244	mg/kg	1	B5E2126	05/21/2025	06/10/2025	U

Origins Laboratory

Jen Pellegrini For Jordan A. Bynon, Project Manager

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CTEH

5120 North Shore Drive

North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: PROJ-054017

**GACO0520T276S004**

**5/20/2025 12:20:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5E0707-04 (Soil)</b>									
<b>Origins Laboratory</b>									
<b>Chromium Hexavalent by EPA 7199</b>									
Hexavalent Chromium	ND		0.251	mg/kg	1	B5E2126	05/21/2025	06/10/2025	U

Origins Laboratory

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Project Number: PROJ-054017

Project: PROJ-054017

**GACO0520T276S005**

**5/20/2025 12:45:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5E0707-05 (Soil)</b>									
<b>Origins Laboratory</b>									
<b>Chromium Hexavalent by EPA 7199</b>									
Hexavalent Chromium	ND		0.254	mg/kg	1	B5E2126	05/21/2025	06/10/2025	U

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5120 North Shore Drive

North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: PROJ-054017

GACO0520T276S006

5/20/2025 1:05:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0707-06 (Soil) Origins Laboratory									
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND		0.245	mg/kg	1	B5E2126	05/21/2025	06/10/2025	U

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Project Number: PROJ-054017

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GACO0520T276C006

5/20/2025 1:05:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0707-07 (Soil) Origins Laboratory									
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND		0.256	mg/kg	1	B5E2126	05/21/2025	06/10/2025	U

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Project Number: PROJ-054017

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**GACO0520T276S007**

**5/20/2025 1:35:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5E0707-08 (Soil)</b>									
<b>Origins Laboratory</b>									
<b>Chromium Hexavalent by EPA 7199</b>									
Hexavalent Chromium	ND		0.252	mg/kg	1	B5E2126	05/21/2025	06/10/2025	U

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**GACO0520T276S008**

**5/20/2025 1:45:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5E0707-09 (Soil)</b>									
<b>Origins Laboratory</b>									
<b>Chromium Hexavalent by EPA 7199</b>									
Hexavalent Chromium	ND		0.251	mg/kg	1	B5E2126	05/21/2025	06/10/2025	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
Batch B5E2126 - EPA 3060A										
Blank (B5E2126-BLK1)					Prepared: 05/21/2025 Analyzed: 06/10/2025					
Hexavalent Chromium	ND	0.250	mg/kg							U
LCS (B5E2126-BS1)					Prepared: 05/21/2025 Analyzed: 06/10/2025					
Hexavalent Chromium	2.49	0.250	mg/kg	2.50		99.8	80-120			
Matrix Spike (B5E2126-MS1)					Source: E5E0704-15 Prepared: 05/21/2025 Analyzed: 06/10/2025					
Hexavalent Chromium	1.03	0.250	mg/kg	2.50	ND	41.2	75-125			QM-14
Matrix Spike (B5E2126-MS2)					Source: E5E0704-15 Prepared: 05/21/2025 Analyzed: 06/10/2025					
Hexavalent Chromium	61.8	24.5	mg/kg	267	ND	23.1	75-125			QM-14
Matrix Spike Dup (B5E2126-MSD1)					Source: E5E0704-15 Prepared: 05/21/2025 Analyzed: 06/10/2025					
Hexavalent Chromium	1.06	0.254	mg/kg	2.54	ND	41.5	75-125	2.37	200	QM-14
Post Spike (B5E2126-PS1)					Source: E5E0704-15 Prepared: 05/21/2025 Analyzed: 06/10/2025					
Hexavalent Chromium	50.1		ug/L	50.0	0.393	99.3	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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