ORIGINS LABORATORY

CTEH

Kyle Lawrence

5120 North Shore Drive

North Little RockAR 72118

June 10, 2025

Project Name - PROJ-054017 **Project Number - PROJ-054017**

Attached are your analytical results for PROJ-054017 received by Origins Laboratory May 02, 2025. This project is associated with Origins project number E5E0142-01.

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

THE NELAC INSTITUTE

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
GACO0502T129-1S001	E5E0142-01	Soil	May 2, 2025 8:50	05/02/2025 20:10

All Chromium Hexavalent samples in this workorder were prepared by EPA 3060A at Enthalpy Denver and analyzed by EPA 7199 at subcontract lab: Enthalpy Richmond. Both laboratories are TNI accredited for this analysis and meets statutory and regulatory requirements for this analysis. See NCM E25005.

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

ENTHALPY

CHAIN-OF-CUSTODY Analytical Request Document

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

ESE0442

Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL BOLD OUTLINED AREAS are for LAB USE ONLY

Company: CTEH

Address:

Billing Information: ctehap@montrose-env.com

Report To: Lab Results; Kyle Lawrence; Eric Catlin; Andrew Henault; Tami McMullin; Madelyn Klinkerman

Email To: labresults@cteh.com; kylelawrence@cteh.com; ecatlin@cteh.com; ahenault@cteh.com; tmcmullin@cteh.com; mklinkerman@cteh.com

Copy To:

Site Collection Info/Address:

Customer Project Name/Number: Bishop Loss of Containment PROJ-054017

State: CO County/City: Galeton

Time Zone Collect: [ ] PT [X] MT [ ] CT [ ] ET

Phone:

Email:

Site/Facility ID #:

Compliance Monitoring? [ ] Yes [ ] No

Collected By (print):

Purchase Order #:

Quote #:

DW PWS ID #:

DW Location Code:

Collected By (signature):

Turnaround Date Required:

Immediately Packed on Ice: [X] Yes [ ] No

Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: [X] Hold: 2X

Rush: (Expedite Charges Apply) ASAP [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] Standard

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

* Matrix Codes (insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Container Preservative Type **: U 3

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Lab Project Manager:

Analyses: Container Type: Plastic (P) or Glass (G); Table 915; VOCs 8260D

Customer Sample ID	Matrix*	Comp / Grab	Date	Time	No. of Cntrs	Container Type	Table 915	VOCs 8260D
GAC0502T129-1S001	SL	G	5/2/2025	0850	3	G	X	-

MB

Lab Profile/Line:

Lab Sample Receipt Checklist:
Custody Seals Present/Intact Y N NA
Custody Signatures Present Y N NA
Collector Signature Present Y N NA
Bottles Intact Y N NA
Correct Bottles Y N NA
Sufficient Volume Y N NA
Samples Received on Ice Y N NA
VOA - Headspace Acceptable Y N NA
USDA Regulated Soils Y N NA
Samples in Holding Time Y N NA
Residual Chlorine Present Y N NA
Cl Strips:
Sample pH Acceptable Y N NA
pH Strips:
Sulfide Present Y N NA
Lead Acetate Strips:

LAB USE ONLY:
Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #:

Samples received via: FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#:
Cooler 1 Temp Upon Receipt: __oC
Cooler 1 Therm Corr. Factor: __oC
Cooler 1 Corrected Temp: __oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	MTJL LAB USE ONLY
[signature]	5-2-25 1842	[signature]	5/2/25 18:42	Table #:
[signature]	5-2-25 20:00	[signature]	5/2/25 20:10	Acctnum: / Template:
				PM:

Trip Blank Received: Y N NA HCL MeOH TSP Other

Non Conformance(s): Page: 1

Origins Laboratory

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: E501472

Client: CTEH
Client Project ID: 054017

Checklist Completed by: EH Dsam
Date/time completed: 5/14/25

Shipped Via: UPS
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
Airbill #: N/A

Matrix(s) Received: (Check all that apply): X Soil/Solid _____Water _____Other: _____
(Describe)

Cooler Number/Temperature: 1 / 1 °c

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]?	X			
Is there ice present (document if blue ice is used)	X			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		X		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		X		
Were all samples received intact[1]?	X			
Was adequate sample volume provided[1]?	X			
Are short holding time analytes or samples with HTs due within 48 hours present[1]?			X	
Is a chain-of-custody (COC) present and filled out completely[1]?	X			
Does the COC agree with the number and type of sample bottles received[1]?	X			
Do the sample IDs on the bottle labels match the COC[1]?	X			
Is the COC properly relinquished by the client with date and time recorded[1]?	X			
For volatiles in water – is there headspace (> ¼ inch bubble) present? **If yes, contact client and note in narrative.**			X	
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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)*			X	
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 in the additional comments (above) and the case narrative.*

JB
Reviewed by (Project Manager)

5/15/25
Date/Time Reviewed

Origins Laboratory

Jen Pellegrini For Jordan A. Bynon, Project Manager

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Kyle Lawrence
Project Number: PROJ-054017
Project: PROJ-054017

GACO0502T129-1S001
5/2/2025 8:50:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0142-01 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.573		0.100	mg/L	1	B5E0509	05/05/2025	05/06/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND		0.251	mg/kg	1	B5E0535	05/05/2025	05/23/2025	U
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E0543	05/05/2025	05/05/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	*82.4 %*			*50-150*		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E0504	05/05/2025	05/06/2025	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

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North Little Rock AR 72118

Kyle Lawrence
Project Number: PROJ-054017
Project: PROJ-054017

GACO0502T129-1S001
5/2/2025 8:50:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0142-01 (Soil)									
Origins Laboratory									
GBTEX+TMBs by 8260D									
Surrogate: 1,2-Dichloroethane-d4	*100 %*			*70-130*		*B5E0504*	*05/05/2025*	*05/06/2025*	
Surrogate: Toluene-d8	*98.0 %*			*70-130*		"	"	"	
Surrogate: 4-Bromofluorobenzene	*99.0 %*			*70-130*		"	"	"	
Metals by Saturated Paste by EPA 6010									
Calcium	1.51		0.499	meq/L	10	[CALC]	05/05/2025	05/07/2025	
Magnesium	1.14		0.823	"	"	"	"	"	
Sodium	0.462		0.435	"	"	"	"	"	
PAH by EPA 8270E extracted via 3580A									
1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E0521	05/05/2025	05/05/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U

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North Little Rock AR 72118

Kyle Lawrence
Project Number: PROJ-054017
Project: PROJ-054017

GACO0502T129-1S001
5/2/2025 8:50:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0142-01 (Soil)									
Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
Fluoranthene	ND		0.020	mg/kg	1	B5E0521	05/05/2025	05/05/2025	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U
Surrogate: Fluorene-d10	*100 %*			*60-130*		"	"	"	
Surrogate: Anthracene-d10	*95.8 %*			*60-130*		"	"	"	
Surrogate: Pyrene-d10	*96.1 %*			*60-130*		"	"	"	
Surrogate: Benzo (a) pyrene-d12	*102 %*			*60-130*		"	"	"	
pH in Soil by 9045D									
pH	8.27			pH Units	1	B5E0520	05/05/2025	05/06/2025	
SAR by 20B Saturated Paste									
SAR	0.402		0.0100	SAR	1	B5E0513	05/05/2025	05/07/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	0.421		0.00500	mmhos/cm	1	B5E0520	05/05/2025	05/06/2025	
Table 915 metals by EPA 6020B									

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North Little Rock AR 72118

Kyle Lawrence
Project Number: PROJ-054017
Project: PROJ-054017

GACO0502T129-1S001
5/2/2025 8:50:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0142-01 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Arsenic	4.32		0.265	mg/kg	10	B5E0546	05/05/2025	05/06/2025	
Barium	114		74.9	"	"	"	"	"	
Cadmium	ND		0.347	"	"	"	"	"	U
Copper	ND		42.0	"	"	"	"	"	U
Lead	ND		12.8	"	"	"	"	"	U
Nickel	ND		23.8	"	"	"	"	"	U
Selenium	ND		0.238	"	"	"	"	"	U
Silver	ND		0.731	"	"	"	"	"	U
Zinc	ND		338	"	"	"	"	"	U

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Project Number: PROJ-054017
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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 B5E0535 - EPA 3060A										
Blank (B5E0535-BLK1)					Prepared: 05/05/2025 Analyzed: 05/22/2025					
Hexavalent Chromium	ND	0.250	mg/kg							U
LCS (B5E0535-BS1)					Prepared: 05/05/2025 Analyzed: 05/23/2025					
Hexavalent Chromium	2.39	0.250	mg/kg	2.50		95.4	80-120			
Matrix Spike (B5E0535-MS1)		**Source: E5E0141-17**			Prepared: 05/05/2025 Analyzed: 05/23/2025					
Hexavalent Chromium	2.05	0.252	mg/kg	2.52	ND	81.3	75-125			
Matrix Spike (B5E0535-MS2)		**Source: E5E0141-17**			Prepared: 05/05/2025 Analyzed: 05/23/2025					
Hexavalent Chromium	223	25.4	mg/kg	287	ND	77.9	75-125			
Matrix Spike Dup (B5E0535-MSD1)		**Source: E5E0141-17**			Prepared: 05/05/2025 Analyzed: 05/23/2025					
Hexavalent Chromium	2.06	0.253	mg/kg	2.53	ND	81.3	75-125	0.507	200	
Post Spike (B5E0535-PS1)		**Source: E5E0141-17**			Prepared: 05/05/2025 Analyzed: 05/29/2025					
Hexavalent Chromium	55.1		ug/L	50.0	0.716	109	80-120			

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CTEH
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North Little Rock AR 72118

Kyle Lawrence
Project Number: PROJ-054017
Project: PROJ-054017

Classical Chemistry Parameters - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B5E0509 - DTPA Sorbitol Preparation										
Blank (B5E0509-BLK1)					Prepared: 05/05/2025 Analyzed: 05/06/2025					
Boron	ND	0.100	mg/L							U
Duplicate (B5E0509-DUP1)		Source: E5E0141-18			Prepared: 05/05/2025 Analyzed: 05/06/2025					
Boron	0.697	0.0997	mg/L		0.699			0.343	50	
Batch B5E0513 - Saturated Paste Metals										
Blank (B5E0513-BLK1)					Prepared: 05/05/2025 Analyzed: 05/07/2025					
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 (B5E0513-DUP1)		Source: E5E0141-18			Prepared: 05/05/2025 Analyzed: 05/07/2025					
Calcium PPM	72.0	10.0	mg/L		65.7			9.15	50	
SAR	ND	0.0100	SAR		ND				200	U
Magnesium PPM	24.1	10.0	mg/L		21.8			9.89	50	
Sodium PPM	38.9	10.0	"		39.2			0.743	50	

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Kyle Lawrence
Project Number: PROJ-054017
Project: PROJ-054017

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B5E0521 - EPA 3580										
Blank (B5E0521-BLK1)				Prepared: 05/05/2025 Analyzed: 05/05/2025						
1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	*200*		*ug/kg*	*200*		*98.2*	*60-130*			
Surrogate: Anthracene-d10	*190*		*"*	*200*		*95.8*	*60-130*			
Surrogate: Pyrene-d10	*200*		*"*	*200*		*99.6*	*60-130*			
Surrogate: Benzo (a) pyrene-d12	*210*		*"*	*200*		*104*	*60-130*			
LCS (B5E0521-BS1)				Prepared: 05/05/2025 Analyzed: 05/05/2025						
1-Methylnaphthalene	0.180	0.002	mg/kg	0.200		89.8	70-130			
2-Methylnaphthalene	0.181	0.002	"	0.200		90.7	70-130			
Acenaphthene	0.194	0.020	"	0.200		96.8	70-130			
Anthracene	0.183	0.020	"	0.200		91.3	70-130			

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EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B5E0521 - EPA 3580										
LCS (B5E0521-BS1)						Prepared: 05/05/2025 Analyzed: 05/05/2025				
Benzo (a) anthracene	0.213	0.005	mg/kg	0.200		106	70-130			
Benzo (a) pyrene	0.197	0.020	"	0.200		98.3	70-130			
Benzo (b) fluoranthene	0.204	0.020	"	0.200		102	70-130			
Benzo (g,h,i) perylene	0.190	0.020	"	0.200		95.1	70-130			
Benzo (k) fluoranthene	0.183	0.020	"	0.200		91.6	70-130			
Chrysene	0.203	0.020	"	0.200		101	70-130			
Dibenz (a,h) anthracene	0.205	0.020	"	0.200		102	70-130			
Fluoranthene	0.195	0.020	"	0.200		97.7	70-130			
Fluorene	0.193	0.020	"	0.200		96.5	70-130			
Indeno (1,2,3-cd) pyrene	0.198	0.020	"	0.200		98.9	70-130			
Naphthalene	0.191	0.002	"	0.200		95.7	70-130			
Phenanthrene	0.194	0.020	"	0.200		97.2	70-130			
Pyrene	0.199	0.020	"	0.200		99.7	70-130			
Surrogate: Fluorene-d10	*200*		*ug/kg*	*200*		*102*	*60-130*			
Surrogate: Anthracene-d10	*190*		*"*	*200*		*96.7*	*60-130*			
Surrogate: Pyrene-d10	*190*		*"*	*200*		*96.1*	*60-130*			
Surrogate: Benzo (a) pyrene-d12	*200*		*"*	*200*		*102*	*60-130*			
Matrix Spike (B5E0521-MS1)		**Source: E5E0141-06**				Prepared: 05/05/2025 Analyzed: 05/05/2025				
1-Methylnaphthalene	0.192	0.002	mg/kg	0.200	0.002	94.9	70-130			
2-Methylnaphthalene	0.195	0.002	"	0.200	ND	97.3	70-130			
Acenaphthene	0.207	0.020	"	0.200	ND	104	70-130			
Anthracene	0.231	0.020	"	0.200	ND	115	70-130			
Benzo (a) anthracene	0.232	0.005	"	0.200	0.001	115	70-130			
Benzo (a) pyrene	0.219	0.020	"	0.200	0.0007	109	70-130			
Benzo (b) fluoranthene	0.227	0.020	"	0.200	ND	113	70-130			
Benzo (g,h,i) perylene	0.203	0.020	"	0.200	0.0006	101	70-130			

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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

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B5E0521 - EPA 3580										
Matrix Spike (B5E0521-MS1)		**Source: E5E0141-06**			Prepared: 05/05/2025 Analyzed: 05/05/2025					
Benzo (k) fluoranthene	0.225	0.020	mg/kg	0.200	ND	112	70-130			
Chrysene	0.212	0.020	"	0.200	0.0005	106	70-130			
Dibenz (a,h) anthracene	0.233	0.020	"	0.200	ND	117	70-130			
Fluoranthene	0.213	0.020	"	0.200	ND	106	70-130			
Fluorene	0.207	0.020	"	0.200	ND	103	70-130			
Indeno (1,2,3-cd) pyrene	0.209	0.020	"	0.200	0.001	104	70-130			
Naphthalene	0.205	0.002	"	0.200	ND	103	70-130			
Phenanthrene	0.207	0.020	"	0.200	ND	104	70-130			
Pyrene	0.207	0.020	"	0.200	ND	103	70-130			
Surrogate: Fluorene-d10	*200*		*ug/kg*	*200*		*101*	*60-130*			
Surrogate: Anthracene-d10	*190*		*"*	*200*		*96.0*	*60-130*			
Surrogate: Pyrene-d10	*190*		*"*	*200*		*94.6*	*60-130*			
Surrogate: Benzo (a) pyrene-d12	*210*		*"*	*200*		*104*	*60-130*			
Matrix Spike Dup (B5E0521-MSD1)		**Source: E5E0141-06**			Prepared: 05/05/2025 Analyzed: 05/05/2025					
1-Methylnaphthalene	0.190	0.002	mg/kg	0.200	0.002	93.9	70-130	1.01	20	
2-Methylnaphthalene	0.189	0.002	"	0.200	ND	94.3	70-130	3.12	20	
Acenaphthene	0.201	0.020	"	0.200	ND	101	70-130	2.79	20	
Anthracene	0.207	0.020	"	0.200	ND	103	70-130	10.8	20	
Benzo (a) anthracene	0.219	0.005	"	0.200	0.001	109	70-130	5.72	20	
Benzo (a) pyrene	0.221	0.020	"	0.200	0.0007	110	70-130	0.827	20	
Benzo (b) fluoranthene	0.233	0.020	"	0.200	ND	116	70-130	2.59	20	
Benzo (g,h,i) perylene	0.201	0.020	"	0.200	0.0006	100	70-130	0.776	20	
Benzo (k) fluoranthene	0.211	0.020	"	0.200	ND	105	70-130	6.53	20	
Chrysene	0.207	0.020	"	0.200	0.0005	103	70-130	2.17	20	
Dibenz (a,h) anthracene	0.236	0.020	"	0.200	ND	118	70-130	1.05	20	
Fluoranthene	0.211	0.020	"	0.200	ND	105	70-130	0.795	20	

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Kyle Lawrence
Project Number: PROJ-054017
Project: PROJ-054017

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B5E0521 - EPA 3580										
Matrix Spike Dup (B5E0521-MSD1)		**Source: E5E0141-06**			Prepared: 05/05/2025 Analyzed: 05/05/2025					
Fluorene	0.201	0.020	mg/kg	0.200	ND	100	70-130	2.80	20	
Indeno (1,2,3-cd) pyrene	0.210	0.020	"	0.200	0.001	104	70-130	0.499	20	
Naphthalene	0.203	0.002	"	0.200	ND	101	70-130	1.33	20	
Phenanthrene	0.207	0.020	"	0.200	ND	103	70-130	0.400	20	
Pyrene	0.205	0.020	"	0.200	ND	102	70-130	1.03	20	
Surrogate: Fluorene-d10	*200*		*ug/kg*	*200*		*100*	*60-130*			
Surrogate: Anthracene-d10	*190*		*"*	*200*		*93.5*	*60-130*			
Surrogate: Pyrene-d10	*190*		*"*	*200*		*95.5*	*60-130*			
Surrogate: Benzo (a) pyrene-d12	*210*		*"*	*200*		*104*	*60-130*			

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CTEH
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North Little Rock AR 72118

Kyle Lawrence
Project Number: PROJ-054017
Project: PROJ-054017

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B5E0543 - EPA 3550B										
Blank (B5E0543-BLK1)					Prepared: 05/05/2025 Analyzed: 05/05/2025					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	*20*		"	*24.9*		*79.4*	*50-150*			
LCS (B5E0543-BS1)					Prepared: 05/05/2025 Analyzed: 05/05/2025					
Diesel (C10-C28)	925	50.0	mg/kg	1000		92.5	70-130			
Residual Range Organics (C28-C40)	919	200	"	1000		91.9	70-130			
Surrogate: o-Terphenyl	*53*		"	*49.8*		*106*	*50-150*			
Matrix Spike (B5E0543-MS1)		**Source: E5E0135-01**			Prepared: 05/05/2025 Analyzed: 05/05/2025					
Diesel (C10-C28)	976	50.0	mg/kg	1000	ND	97.6	70-130			
Residual Range Organics (C28-C40)	1010	200	"	1000	ND	101	70-130			
Surrogate: o-Terphenyl	*52*		"	*49.8*		*104*	*50-150*			
Matrix Spike Dup (B5E0543-MSD1)		**Source: E5E0135-01**			Prepared: 05/05/2025 Analyzed: 05/05/2025					
Diesel (C10-C28)	1030	50.0	mg/kg	1000	ND	103	70-130	5.82	35	
Residual Range Organics (C28-C40)	1070	200	"	1000	ND	107	70-130	5.42	35	
Surrogate: o-Terphenyl	*56*		"	*49.8*		*113*	*50-150*			

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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CTEH
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North Little Rock AR 72118

Kyle Lawrence
Project Number: PROJ-054017
Project: PROJ-054017

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 B5E0546 - EPA 3050B										
Blank (B5E0546-BLK1)				Prepared: 05/05/2025 Analyzed: 05/06/2025						
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 (B5E0546-BS1)				Prepared: 05/05/2025 Analyzed: 05/06/2025						
Arsenic	5.16	0.290	mg/kg	5.00		103	80-120			
Barium	536	82.0	"	500		107	80-120			
Cadmium	5.33	0.380	"	5.00		107	80-120			
Copper	55.2	46.0	"	50.0		110	80-120			
Lead	5.27	14.0	"	5.00		105	80-120			U
Nickel	5.38	26.0	"	5.00		108	80-120			U
Selenium	5.15	0.260	"	5.00		103	80-120			
Silver	4.96	0.800	"	5.00		99.3	80-120			
Zinc	53.3	370	"	50.0		107	80-120			U
Matrix Spike (B5E0546-MS1)		**Source: E5E0163-40**		Prepared: 05/05/2025 Analyzed: 05/06/2025						
Arsenic	15.5	0.267	mg/kg	4.61	4.96	229	75-125			QM-07
Barium	594	75.5	"	461	87.6	110	75-125			
Cadmium	5.26	0.350	"	4.61	0.155	111	75-125			
Copper	60.3	42.4	"	46.1	7.64	114	75-125			
Lead	12.4	12.9	"	4.61	7.11	116	75-125			U

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Jen Pellegrini For Jordan A. Bynon, Project Manager

CTEH
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North Little Rock AR 72118

Kyle Lawrence
Project Number: PROJ-054017
Project: PROJ-054017

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 B5E0546 - EPA 3050B										
Matrix Spike (B5E0546-MS1)		**Source: E5E0163-40**			Prepared: 05/05/2025 Analyzed: 05/06/2025					
Nickel	15.6	24.0	mg/kg	4.61	7.30	179	75-125			QM-07, U
Selenium	5.11	0.240	"	4.61	0.201	107	75-125			
Silver	4.64	0.737	"	4.61	0.0259	100	75-125			
Zinc	99.8	341	"	46.1	40.5	129	75-125			QM-07, U
Matrix Spike Dup (B5E0546-MSD1)		**Source: E5E0163-40**			Prepared: 05/05/2025 Analyzed: 05/06/2025					
Arsenic	9.19	0.253	mg/kg	4.37	4.96	97.0	75-125	51.2	20	QR-DUP
Barium	561	71.6	"	437	87.6	108	75-125	5.84	20	
Cadmium	4.79	0.332	"	4.37	0.155	106	75-125	9.30	20	
Copper	55.0	40.2	"	43.7	7.64	108	75-125	9.10	20	
Lead	13.8	12.2	"	4.37	7.11	153	75-125	10.3	20	QM-07
Nickel	12.4	22.7	"	4.37	7.30	116	75-125	23.0	20	QR-DUP, U
Selenium	4.67	0.227	"	4.37	0.201	102	75-125	9.01	20	
Silver	4.30	0.699	"	4.37	0.0259	97.9	75-125	7.49	20	
Zinc	90.4	323	"	43.7	40.5	114	75-125	9.88	20	U

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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CTEH
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Kyle Lawrence
Project Number: PROJ-054017
Project: PROJ-054017

Saturated Paste - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B5E0520 - Saturated Paste pH/EC										
Blank (B5E0520-BLK1)					Prepared: 05/05/2025 Analyzed: 05/06/2025					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
Duplicate (B5E0520-DUP1)			**Source: E5E0141-18**		Prepared: 05/05/2025 Analyzed: 05/06/2025					
pH	7.86		pH Units		7.83			0.382	25	
Specific Conductance (EC)	0.801	0.00500	mmhos/cm		0.730			9.37	25	

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CTEH
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Kyle Lawrence
Project Number: PROJ-054017
Project: PROJ-054017

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B5E0504 - EPA 5030 (soil)										
Blank (B5E0504-BLK1)					Prepared: 05/05/2025 Analyzed: 05/05/2025					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	*0.13*		"	*0.125*		*107*	*70-130*			
Surrogate: Toluene-d8	*0.12*		"	*0.125*		*97.8*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.12*		"	*0.125*		*98.5*	*70-130*			
LCS (B5E0504-BS1)					Prepared: 05/05/2025 Analyzed: 05/05/2025					
1,2,4-Trimethylbenzene	0.112	0.00200	mg/kg	0.100		112	70-130			
1,3,5-Trimethylbenzene	0.112	0.00200	"	0.100		112	70-130			
Benzene	0.0959	0.00200	"	0.100		95.9	70-130			
Ethylbenzene	0.106	0.00200	"	0.100		106	70-130			
Naphthalene	0.0817	0.00380	"	0.100		81.7	70-130			
Toluene	0.0929	0.00200	"	0.100		92.9	70-130			
o-Xylene	0.109	0.00200	"	0.100		109	70-130			
m,p-Xylene	0.215	0.00400	"	0.200		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.11*		"	*0.125*		*87.8*	*70-130*			
Surrogate: Toluene-d8	*0.12*		"	*0.125*		*96.8*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.12*		"	*0.125*		*96.3*	*70-130*			
Matrix Spike (B5E0504-MS1)		**Source: E5E0141-06**			Prepared: 05/05/2025 Analyzed: 05/05/2025					
1,2,4-Trimethylbenzene	0.102	0.00200	mg/kg	0.100	ND	102	70-130			

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CTEH
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North Little Rock AR 72118

Kyle Lawrence
Project Number: PROJ-054017
Project: PROJ-054017

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B5E0504 - EPA 5030 (soil)										
Matrix Spike (B5E0504-MS1)		**Source: E5E0141-06**			Prepared: 05/05/2025 Analyzed: 05/05/2025					
1,3,5-Trimethylbenzene	0.104	0.00200	mg/kg	0.100	ND	104	70-130			
Benzene	0.0868	0.00200	"	0.100	ND	86.8	70-130			
Ethylbenzene	0.102	0.00200	"	0.100	ND	102	70-130			
Naphthalene	0.0551	0.00380	"	0.100	ND	55.1	70-130			QM-07
Toluene	0.0905	0.00200	"	0.100	ND	90.5	70-130			
o-Xylene	0.104	0.00200	"	0.100	ND	104	70-130			
m,p-Xylene	0.209	0.00400	"	0.200	ND	104	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.096*		"	*0.125*		*76.6*	*70-130*			
Surrogate: Toluene-d8	*0.13*		"	*0.125*		*102*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.12*		"	*0.125*		*97.3*	*70-130*			
Matrix Spike Dup (B5E0504-MSD1)		**Source: E5E0141-06**			Prepared: 05/05/2025 Analyzed: 05/05/2025					
1,2,4-Trimethylbenzene	0.0834	0.00200	mg/kg	0.100	ND	83.4	70-130	20.0	20	
1,3,5-Trimethylbenzene	0.0833	0.00200	"	0.100	ND	83.3	70-130	21.9	20	QR-02
Benzene	0.0789	0.00200	"	0.100	ND	78.9	70-130	9.51	20	
Ethylbenzene	0.0845	0.00200	"	0.100	ND	84.5	70-130	19.3	20	
Naphthalene	0.0613	0.00380	"	0.100	ND	61.3	70-130	10.6	20	QM-07
Toluene	0.0772	0.00200	"	0.100	ND	77.2	70-130	15.8	20	
o-Xylene	0.0876	0.00200	"	0.100	ND	87.6	70-130	17.3	20	
m,p-Xylene	0.170	0.00400	"	0.200	ND	85.1	70-130	20.5	20	QR-02
Surrogate: 1,2-Dichloroethane-d4	*0.11*		"	*0.125*		*84.3*	*70-130*			
Surrogate: Toluene-d8	*0.12*		"	*0.125*		*98.9*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.12*		"	*0.125*		*97.5*	*70-130*			

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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North Little Rock AR 72118

Kyle Lawrence
Project Number: PROJ-054017
Project: PROJ-054017

Notes and Definitions

U Sample is Non-Detect.

QR-DUP RPD exceeds QC acceptance criteria, this indicates source sample is not homogenous.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

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 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

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