



CTEH

June 06, 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 15, 2025. This project is associated with Origins project number E5E0479-01.

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
GACO0514T137-1S001	E5E0479-01	Soil	May 14, 2025 13:30	05/15/2025 07:45

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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ENTHALPY ANALYTICAL Chain of Custody Record Lab No: ES60479 Page: 1 of 1		Turn Around Time (rush by advanced notice only) Standard: 3 Day: <input type="checkbox"/> 5 Day: <input type="checkbox"/> 1 Day: <input type="checkbox"/> Custom TAT: <input type="checkbox"/> ASAP Sample Receipt Temp and Notes: 0.9°C ice (lab use only)	
Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Water P = Product O = Oil SD = Sediment T = Tissue WP = Waste WW = Wastewater X = Other		Sample Type: Composite Grab or Discrete Blank Other	
PROJECT INFORMATION Name: PROJ-054017 Bishop Loss of Containment Number: P.O. #:		Analysis Request (Crossed out)	
CUSTOMER INFORMATION Company: CTEH Report To: Charro-Bishop Kyle Lawrence, Eric Caffery, Andrew Heasalt, Tam McMillin, Madely Whiteman Email: charro_bishop@montrose-env.com Address: 5120 Northshore Dr, North Little Rock, AR 72118 Phone: Galien, CO Site Name: Global ID: Billing Instruction: cteha@montrose-env.com		Test Instructions / Comments (Crossed out)	
Sample ID 1: GAC05141137-15001		Sampling Date: 5/14/2025 Sampling Time (24 hr): 13:30 S Sample Type: G B 3 4 02 HB X Matrix Type: G B 3 4 02 HB X Cont. No. Cont. Sre. Initials Pres. No. Cont. Sre. Initials (Crossed out)	
Signature: <i>Matthew Beck</i> Print Name: Matthew Beck Company/Title: CTEH Date/Time: 5-14-25 18:00		Signature: <i>Nicki Mervia</i> Print Name: Nicki Mervia Company/Title: ENHALPY Date/Time: 05/15/25 07:45	

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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: E5E0479 Client: CTEH
Client Project ID: PROJ-054017
Checklist Completed by: NKM/NB Shipped Via: MD
Date/time completed: 05/15/25 (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 / 0.9 °C _____ / _____ °C _____ / _____ °C (Describe) _____ °C
Thermometer ID: T-001

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)	/			
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 analysis 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 NaAsO ₂ +NaOH, ZrAc+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.

Reviewed by (Project Manager) NB Date/Time Reviewed 5/15/25

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 Project Number: PROJ-054017
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GACO0514T137-1S001
5/14/2025 1:30:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0479-01 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.690		0.101	mg/L	1	B5E1541	05/15/2025	05/19/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND		0.239	mg/kg	1	B5E1654	05/16/2025	06/04/2025	U
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E1501	05/15/2025	05/15/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	80.0 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E1472	05/15/2025	05/15/2025	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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GACO0514T137-1S001
5/14/2025 1:30:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0479-01 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	105 %			70-130		B5E1472	05/15/2025	05/15/2025	
Surrogate: Toluene-d8	100 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	99.4 %			70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.90		0.499	meq/L	10	[CALC]	05/15/2025	05/19/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.583		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E1523	05/15/2025	05/15/2025	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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GACO0514T137-1S001
5/14/2025 1:30:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0479-01 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Fluoranthene	ND		0.020	mg/kg	1	B5E1523	05/15/2025	05/15/2025	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	98.5 %				60-130	"	"	"	
Surrogate: Anthracene-d10	102 %				60-130	"	"	"	
Surrogate: Pyrene-d10	110 %				60-130	"	"	"	
Surrogate: Benzo (a) pyrene-d12	108 %				60-130	"	"	"	

pH in Soil by 9045D

pH	8.06			pH Units	1	B5E1543	05/15/2025	05/17/2025	
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SAR by 20B Saturated Paste

SAR	0.506		0.0100	SAR	1	B5E1535	05/15/2025	05/19/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.388		0.00500	mmhos/cm	1	B5E1543	05/15/2025	05/17/2025	
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Table 915 metals by EPA 6020B

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GACO0514T137-1S001
5/14/2025 1:30:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0479-01 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	5.37		0.272	mg/kg	10	B5E1526	05/15/2025	05/16/2025	
Barium	88.1		77.0	"	"	"	"	"	
Cadmium	ND		0.357	"	"	"	"	"	U
Copper	ND		43.2	"	"	"	"	"	U
Lead	ND		13.1	"	"	"	"	"	U
Nickel	ND		24.4	"	"	"	"	"	U
Selenium	0.296		0.244	"	"	"	"	"	
Silver	ND		0.751	"	"	"	"	"	U
Zinc	ND		347	"	"	"	"	"	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 B5E1654 - EPA 3060A										
Blank (B5E1654-BLK1)										
					Prepared: 05/16/2025 Analyzed: 06/04/2025					
Hexavalent Chromium	ND	0.250	mg/kg							U
LCS (B5E1654-BS1)										
					Prepared: 05/16/2025 Analyzed: 06/04/2025					
Hexavalent Chromium	2.46	0.250	mg/kg	2.50		98.4	80-120			
Matrix Spike (B5E1654-MS1)										
					Source: E5E0480-01					
					Prepared: 05/16/2025 Analyzed: 06/05/2025					
Hexavalent Chromium	2.12	0.250	mg/kg	2.50	0.138	79.1	75-125			QM-07
Matrix Spike (B5E1654-MS2)										
					Source: E5E0480-01					
					Prepared: 05/16/2025 Analyzed: 06/05/2025					
Hexavalent Chromium	261	24.4	mg/kg	256	ND	102	75-125			
Matrix Spike Dup (B5E1654-MSD1)										
					Source: E5E0480-01					
					Prepared: 05/16/2025 Analyzed: 06/05/2025					
Hexavalent Chromium	2.17	0.252	mg/kg	2.52	0.138	80.4	75-125	2.39	200	QM-07
Post Spike (B5E1654-PS1)										
					Source: E5E0480-01					
					Prepared: 05/16/2025 Analyzed: 06/05/2025					
Hexavalent Chromium	51.1		ug/L	50.0	2.76	96.6	80-120			QM-07

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Classical Chemistry Parameters - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5E1535 - Saturated Paste Metals

Blank (B5E1535-BLK1)

Prepared: 05/15/2025 Analyzed: 05/19/2025

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 (B5E1535-DUP1)

Source: E5E0480-01

Prepared: 05/15/2025 Analyzed: 05/19/2025

Calcium PPM	33.6	10.0	mg/L		38.5			13.5	50	
SAR	ND	0.0100	SAR		ND				200	U
Magnesium PPM	6.17	10.0	mg/L		7.05			13.3	50	U
Sodium PPM	8.17	10.0	"		8.58			4.90	50	U

Batch B5E1541 - DTPA Sorbitol Preparation

Blank (B5E1541-BLK1)

Prepared: 05/15/2025 Analyzed: 05/19/2025

Boron	ND	0.100	mg/L							U
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Duplicate (B5E1541-DUP1)

Source: E5E0480-01

Prepared: 05/15/2025 Analyzed: 05/19/2025

Boron	0.780	0.0988	mg/L		0.716			8.63	50	
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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
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Batch B5E1523 - EPA 3580

Blank (B5E1523-BLK1)

Prepared: 05/15/2025 Analyzed: 05/15/2025

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		99.6	60-130			
Surrogate: Anthracene-d10	200		"	200		99.4	60-130			
Surrogate: Pyrene-d10	230		"	200		113	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		107	60-130			

LCS (B5E1523-BS1)

Prepared: 05/15/2025 Analyzed: 05/15/2025

1-Methylnaphthalene	0.178	0.002	mg/kg	0.200		89.2	70-130			
2-Methylnaphthalene	0.177	0.002	"	0.200		88.4	70-130			
Acenaphthene	0.199	0.020	"	0.200		99.3	70-130			
Anthracene	0.187	0.020	"	0.200		93.5	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
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Batch B5E1523 - EPA 3580

LCS (B5E1523-BS1)

Prepared: 05/15/2025 Analyzed: 05/15/2025

Benzo (a) anthracene	0.219	0.005	mg/kg	0.200		110	70-130			
Benzo (a) pyrene	0.220	0.020	"	0.200		110	70-130			
Benzo (b) fluoranthene	0.213	0.020	"	0.200		107	70-130			
Benzo (g,h,i) perylene	0.210	0.020	"	0.200		105	70-130			
Benzo (k) fluoranthene	0.210	0.020	"	0.200		105	70-130			
Chrysene	0.200	0.020	"	0.200		100	70-130			
Dibenz (a,h) anthracene	0.206	0.020	"	0.200		103	70-130			
Fluoranthene	0.221	0.020	"	0.200		110	70-130			
Fluorene	0.184	0.020	"	0.200		91.9	70-130			
Indeno (1,2,3-cd) pyrene	0.214	0.020	"	0.200		107	70-130			
Naphthalene	0.189	0.002	"	0.200		94.4	70-130			
Phenanthrene	0.194	0.020	"	0.200		96.9	70-130			
Pyrene	0.223	0.020	"	0.200		112	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		99.3	60-130			
Surrogate: Anthracene-d10	200		"	200		100	60-130			
Surrogate: Pyrene-d10	220		"	200		112	60-130			
Surrogate: Benzo (a) pyrene-d12	220		"	200		108	60-130			

Matrix Spike (B5E1523-MS1)

Source: E5E0472-04

Prepared: 05/15/2025 Analyzed: 05/15/2025

1-Methylnaphthalene	0.188	0.002	mg/kg	0.200	0.0008	93.6	70-130			
2-Methylnaphthalene	0.183	0.002	"	0.200	ND	91.7	70-130			
Acenaphthene	0.203	0.020	"	0.200	0.001	101	70-130			
Anthracene	0.200	0.020	"	0.200	0.0009	99.5	70-130			
Benzo (a) anthracene	0.225	0.005	"	0.200	0.0009	112	70-130			
Benzo (a) pyrene	0.230	0.020	"	0.200	0.0008	115	70-130			
Benzo (b) fluoranthene	0.225	0.020	"	0.200	0.001	112	70-130			
Benzo (g,h,i) perylene	0.220	0.020	"	0.200	0.001	110	70-130			

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EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5E1523 - EPA 3580

Matrix Spike (B5E1523-MS1)

Source: E5E0472-04

Prepared: 05/15/2025 Analyzed: 05/15/2025

Benzo (k) fluoranthene	0.224	0.020	mg/kg	0.200	ND	112	70-130			
Chrysene	0.210	0.020	"	0.200	0.001	104	70-130			
Dibenz (a,h) anthracene	0.216	0.020	"	0.200	0.0003	108	70-130			
Fluoranthene	0.228	0.020	"	0.200	0.002	113	70-130			
Fluorene	0.190	0.020	"	0.200	0.0004	94.8	70-130			
Indeno (1,2,3-cd) pyrene	0.207	0.020	"	0.200	0.001	103	70-130			
Naphthalene	0.196	0.002	"	0.200	ND	97.8	70-130			
Phenanthrene	0.200	0.020	"	0.200	ND	100	70-130			
Pyrene	0.230	0.020	"	0.200	0.001	114	70-130			

Surrogate: Fluorene-d10	200		ug/kg	200		99.3	60-130			
Surrogate: Anthracene-d10	200		"	200		99.8	60-130			
Surrogate: Pyrene-d10	220		"	200		110	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		107	60-130			

Matrix Spike Dup (B5E1523-MSD1)

Source: E5E0472-04

Prepared: 05/15/2025 Analyzed: 05/15/2025

1-Methylnaphthalene	0.189	0.002	mg/kg	0.200	0.0008	94.0	70-130	0.470	20	
2-Methylnaphthalene	0.184	0.002	"	0.200	ND	91.8	70-130	0.215	20	
Acenaphthene	0.200	0.020	"	0.200	0.001	99.3	70-130	1.62	20	
Anthracene	0.193	0.020	"	0.200	0.0009	96.0	70-130	3.56	20	
Benzo (a) anthracene	0.228	0.005	"	0.200	0.0009	114	70-130	1.26	20	
Benzo (a) pyrene	0.229	0.020	"	0.200	0.0008	114	70-130	0.748	20	
Benzo (b) fluoranthene	0.226	0.020	"	0.200	0.001	112	70-130	0.530	20	
Benzo (g,h,i) perylene	0.222	0.020	"	0.200	0.001	111	70-130	0.804	20	
Benzo (k) fluoranthene	0.224	0.020	"	0.200	ND	112	70-130	0.303	20	
Chrysene	0.212	0.020	"	0.200	0.001	105	70-130	0.877	20	
Dibenz (a,h) anthracene	0.218	0.020	"	0.200	0.0003	109	70-130	1.18	20	
Fluoranthene	0.228	0.020	"	0.200	0.002	113	70-130	0.255	20	

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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
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Batch B5E1523 - EPA 3580

Matrix Spike Dup (B5E1523-MSD1)

Source: E5E0472-04

Prepared: 05/15/2025 Analyzed: 05/15/2025

Fluorene	0.190	0.020	mg/kg	0.200	0.0004	94.8	70-130	0.0621	20	
Indeno (1,2,3-cd) pyrene	0.227	0.020	"	0.200	0.001	113	70-130	8.99	20	
Naphthalene	0.191	0.002	"	0.200	ND	95.7	70-130	2.25	20	
Phenanthrene	0.202	0.020	"	0.200	ND	101	70-130	0.707	20	
Pyrene	0.229	0.020	"	0.200	0.001	114	70-130	0.639	20	
Surrogate: Fluorene-d10	200		ug/kg	200		98.8	60-130			
Surrogate: Anthracene-d10	200		"	200		99.6	60-130			
Surrogate: Pyrene-d10	220		"	200		110	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		106	60-130			

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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 B5E1501 - EPA 3550B										
Blank (B5E1501-BLK1)										
					Prepared: 05/15/2025 Analyzed: 05/15/2025					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	25		"	24.9		101	50-150			
LCS (B5E1501-BS1)										
					Prepared: 05/15/2025 Analyzed: 05/15/2025					
Diesel (C10-C28)	966	50.0	mg/kg	1000		96.6	70-130			
Residual Range Organics (C28-C40)	1180	200	"	1000		118	70-130			
Surrogate: o-Terphenyl	54		"	49.8		109	50-150			
Matrix Spike (B5E1501-MS1)										
		Source: E5E0472-04			Prepared: 05/15/2025 Analyzed: 05/15/2025					
Diesel (C10-C28)	1060	50.0	mg/kg	1000	ND	106	70-130			
Residual Range Organics (C28-C40)	1340	200	"	1000	ND	134	70-130			QM-07
Surrogate: o-Terphenyl	55		"	49.8		110	50-150			
Matrix Spike (B5E1501-MS2)										
		Source: E5E0480-01			Prepared: 05/15/2025 Analyzed: 05/15/2025					
Diesel (C10-C28)	988	50.0	mg/kg	1000	ND	98.8	70-130			
Residual Range Organics (C28-C40)	1230	200	"	1000	ND	123	70-130			
Surrogate: o-Terphenyl	49		"	49.8		97.9	50-150			
Matrix Spike Dup (B5E1501-MSD1)										
		Source: E5E0472-04			Prepared: 05/15/2025 Analyzed: 05/15/2025					
Diesel (C10-C28)	1050	50.0	mg/kg	1000	ND	105	70-130	0.180	35	
Residual Range Organics (C28-C40)	1340	200	"	1000	ND	134	70-130	0.0929	35	QM-07
Surrogate: o-Terphenyl	52		"	49.8		104	50-150			
Matrix Spike Dup (B5E1501-MSD2)										
		Source: E5E0480-01			Prepared: 05/15/2025 Analyzed: 05/15/2025					
Diesel (C10-C28)	941	50.0	mg/kg	1000	ND	94.1	70-130	4.87	35	
Residual Range Organics (C28-C40)	1200	200	"	1000	ND	120	70-130	3.19	35	
Surrogate: o-Terphenyl	42		"	49.8		84.3	50-150			

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CTEH

5120 North Shore Drive

North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: PROJ-054017

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Table with 11 columns: Analyte, Result, Reporting Limit, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Notes

Batch B5E1501 - EPA 3550B

Matrix Spike Dup (B5E1501-MSD2)

Source: E5E0480-01

Prepared: 05/15/2025 Analyzed: 05/15/2025

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Handwritten signature of Jen Pellegrini

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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

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
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Batch B5E1526 - EPA 3050B

Blank (B5E1526-BLK1)

Prepared: 05/15/2025 Analyzed: 05/16/2025

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 (B5E1526-BS1)

Prepared: 05/15/2025 Analyzed: 05/16/2025

Arsenic	5.13	0.290	mg/kg	5.00		103	80-120			
Barium	500	82.0	"	500		100	80-120			
Cadmium	5.33	0.380	"	5.00		107	80-120			
Copper	53.1	46.0	"	50.0		106	80-120			
Lead	5.08	14.0	"	5.00		102	80-120			U
Nickel	5.26	26.0	"	5.00		105	80-120			U
Selenium	5.55	0.260	"	5.00		111	80-120			
Silver	5.22	0.800	"	5.00		104	80-120			
Zinc	50.7	370	"	50.0		101	80-120			U

Matrix Spike (B5E1526-MS1)

Source: E5E0472-04

Prepared: 05/15/2025 Analyzed: 05/16/2025

Arsenic	15.9	0.247	mg/kg	4.25	5.93	235	75-125			QM-07
Barium	511	69.7	"	425	68.1	104	75-125			
Cadmium	4.94	0.323	"	4.25	0.224	111	75-125			
Copper	56.4	39.1	"	42.5	9.75	110	75-125			
Lead	13.8	11.9	"	4.25	9.20	108	75-125			

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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
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Batch B5E1526 - EPA 3050B

Matrix Spike (B5E1526-MS1)

Source: E5E0472-04

Prepared: 05/15/2025 Analyzed: 05/16/2025

Nickel	14.2	22.1	mg/kg	4.25	8.44	135	75-125			QM-07, U
Selenium	5.21	0.221	"	4.25	0.489	111	75-125			
Silver	4.60	0.680	"	4.25	0.0187	108	75-125			
Zinc	88.5	315	"	42.5	39.2	116	75-125			U

Matrix Spike Dup (B5E1526-MSD1)

Source: E5E0472-04

Prepared: 05/15/2025 Analyzed: 05/16/2025

Arsenic	8.99	0.248	mg/kg	4.27	5.93	71.7	75-125	55.5	20	QM-07, QR-DUP
Barium	484	70.0	"	427	68.1	97.5	75-125	5.39	20	
Cadmium	4.71	0.324	"	4.27	0.224	105	75-125	4.71	20	
Copper	53.2	39.3	"	42.7	9.75	102	75-125	5.95	20	
Lead	12.5	12.0	"	4.27	9.20	78.0	75-125	9.47	20	
Nickel	11.6	22.2	"	4.27	8.44	73.0	75-125	20.4	20	QM-07, QR-DUP
Selenium	4.65	0.222	"	4.27	0.489	97.6	75-125	11.2	20	
Silver	4.32	0.683	"	4.27	0.0187	101	75-125	6.39	20	
Zinc	75.7	316	"	42.7	39.2	85.6	75-125	15.6	20	U

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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
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Batch B5E1543 - Saturated Paste pH/EC

Blank (B5E1543-BLK1)

Prepared: 05/15/2025 Analyzed: 05/17/2025

Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
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Duplicate (B5E1543-DUP1)

Source: E5E0480-01

Prepared: 05/15/2025 Analyzed: 05/17/2025

Specific Conductance (EC)	0.349	0.00500	mmhos/cm		0.366			4.62	25	
pH	8.05		pH Units		8.11			0.743	25	

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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
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Batch B5E1472 - EPA 5030 (soil)

Blank (B5E1472-BLK1)

Prepared: 05/15/2025 Analyzed: 05/15/2025

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	103		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	103		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	96.5		70-130			

LCS (B5E1472-BS1)

Prepared: 05/15/2025 Analyzed: 05/15/2025

1,2,4-Trimethylbenzene	0.0919	0.00200	mg/kg	0.100	91.9		70-130			
1,3,5-Trimethylbenzene	0.0939	0.00200	"	0.100	93.9		70-130			
Benzene	0.0932	0.00200	"	0.100	93.2		70-130			
Ethylbenzene	0.0950	0.00200	"	0.100	95.0		70-130			
Naphthalene	0.0932	0.00380	"	0.100	93.2		70-130			
Toluene	0.0902	0.00200	"	0.100	90.2		70-130			
o-Xylene	0.0944	0.00200	"	0.100	94.4		70-130			
m,p-Xylene	0.182	0.00400	"	0.200	91.0		70-130			

Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	101		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	100		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	100		70-130			

Matrix Spike (B5E1472-MS1)

Source: E5E0472-04

Prepared: 05/15/2025 Analyzed: 05/15/2025

1,2,4-Trimethylbenzene	0.111	0.00200	mg/kg	0.100	ND	111	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

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
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Batch B5E1472 - EPA 5030 (soil)

Matrix Spike (B5E1472-MS1)		Source: E5E0472-04			Prepared: 05/15/2025 Analyzed: 05/15/2025					
1,3,5-Trimethylbenzene	0.113	0.00200	mg/kg	0.100	ND	113	70-130			
Benzene	0.111	0.00200	"	0.100	0.000640	110	70-130			
Ethylbenzene	0.113	0.00200	"	0.100	ND	113	70-130			
Naphthalene	0.119	0.00380	"	0.100	ND	119	70-130			
Toluene	0.108	0.00200	"	0.100	ND	108	70-130			
o-Xylene	0.113	0.00200	"	0.100	ND	113	70-130			
m,p-Xylene	0.221	0.00400	"	0.200	ND	110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.6	70-130			

Matrix Spike (B5E1472-MS2)		Source: E5E0480-01			Prepared: 05/15/2025 Analyzed: 05/15/2025					
1,2,4-Trimethylbenzene	0.0904	0.00200	mg/kg	0.100	ND	90.4	70-130			
1,3,5-Trimethylbenzene	0.0916	0.00200	"	0.100	ND	91.6	70-130			
Benzene	0.101	0.00200	"	0.100	ND	101	70-130			
Ethylbenzene	0.0924	0.00200	"	0.100	ND	92.4	70-130			
Naphthalene	0.0908	0.00380	"	0.100	ND	90.8	70-130			
Toluene	0.0909	0.00200	"	0.100	ND	90.9	70-130			
o-Xylene	0.0930	0.00200	"	0.100	ND	93.0	70-130			
m,p-Xylene	0.181	0.00400	"	0.200	ND	90.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		111	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.2	70-130			

Matrix Spike Dup (B5E1472-MSD1)		Source: E5E0472-04			Prepared: 05/15/2025 Analyzed: 05/15/2025					
1,2,4-Trimethylbenzene	0.0963	0.00200	mg/kg	0.100	ND	96.3	70-130	13.8	20	
1,3,5-Trimethylbenzene	0.0996	0.00200	"	0.100	ND	99.6	70-130	12.8	20	

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Jen Pellegrini For Jordan A. Bynon, Project Manager



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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
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Batch B5E1472 - EPA 5030 (soil)

Matrix Spike Dup (B5E1472-MSD1)		Source: E5E0472-04			Prepared: 05/15/2025 Analyzed: 05/15/2025					
Benzene	0.0973	0.00200	mg/kg	0.100	0.000640	96.7	70-130	12.9	20	
Ethylbenzene	0.0982	0.00200	"	0.100	ND	98.2	70-130	14.0	20	
Naphthalene	0.0941	0.00380	"	0.100	ND	94.1	70-130	23.6	20	QR-02
Toluene	0.0948	0.00200	"	0.100	ND	94.8	70-130	12.9	20	
o-Xylene	0.101	0.00200	"	0.100	ND	101	70-130	11.6	20	
m,p-Xylene	0.191	0.00400	"	0.200	ND	95.7	70-130	14.3	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

Matrix Spike Dup (B5E1472-MSD2)		Source: E5E0480-01			Prepared: 05/15/2025 Analyzed: 05/15/2025					
1,2,4-Trimethylbenzene	0.0842	0.00200	mg/kg	0.100	ND	84.2	70-130	7.10	20	
1,3,5-Trimethylbenzene	0.0861	0.00200	"	0.100	ND	86.1	70-130	6.19	20	
Benzene	0.0918	0.00200	"	0.100	ND	91.8	70-130	9.62	20	
Ethylbenzene	0.0864	0.00200	"	0.100	ND	86.4	70-130	6.69	20	
Naphthalene	0.0853	0.00380	"	0.100	ND	85.3	70-130	6.24	20	
Toluene	0.0854	0.00200	"	0.100	ND	85.4	70-130	6.26	20	
o-Xylene	0.0877	0.00200	"	0.100	ND	87.7	70-130	5.91	20	
m,p-Xylene	0.168	0.00400	"	0.200	ND	84.1	70-130	7.10	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		115	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.4	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

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.

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Jen Pellegrini For Jordan A. Bynon, Project Manager