



CTEH

May 29, 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 21, 2025. This project is associated with Origins project number E5E0709-01.

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
GACO0520T166S001	E5E0709-01	Soil	May 20, 2025 16:50	05/21/2025 07:45
GACO0520T166T002	E5E0709-02	Water	May 20, 2025 7:00	05/21/2025 07:45

Origins Laboratory

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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

ESE070A

Chain of Custody Record		Turn Around Time (rush by advanced notice only)						
Lab No:	Page: of	Standard:	3 Day: 5 Day: 1 Day:					
ENTHALPY ANALYTICAL Enthalpy Analytical - Denver 1725 W. Elk Place, Denver, CO 80211 Phone: 303-433-1322		ASAP Sample Receipt Temp and Notes: 0u vtu (lab use only)						
Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Water P = Product O = Oil SD = Sediment T = Tissue WP = Wipe WW = Wastewater X = Other		Preservatives: 0 = none 1 = No SO ₂ 2 = HCl 3 = HNO ₃ 4 = H ₂ SO ₄ 5 = NaOH 6 = Other						
CUSTOMER INFORMATION		PROJECT INFORMATION						
Company: CTEH	Name: PROJ-054017 Bishop Loss of Containment	Analysis Request						
Report To: Cheryl Bishop, Kyle Lawrence, Eric Collins, Andrew Henschel, Tami McMillin, Madelyn Wilkerson	Number:	MS/MSD						
Email: cheryl@enthalpy.com, kyle@enthalpy.com, eric@enthalpy.com, andrew@enthalpy.com, tami@enthalpy.com, madelyn@enthalpy.com	P.O. #:	VOCs 82600						
Address: 5120 Northshore Dr, North Little Rock, AR 72118	Address: Galen, CO	Table 915, minus Chromium VI						
Phone:	Site Name:	X						
Phone:	Global ID:	X						
Billing Instruction: ctehap@montrose-env.com	Sampled By: M. H. Bishop	X						
Sample ID	Sampling Date	Sampling Time (24 hr)	Matrix	Sample Type	Pres. No.	Cont. No.	Cont. Site	Initials
1 GAC052011665981	5/18/2025	15:50	S	G	0	2	4-02	MB
2 GAC052011665982	5/18/2025	7:00	X	B	0	2	4-01	MB
3								
4								
5								
6								
7								
8								
9								
10								
Relinquished By: M. H. Bishop	Signature	Print Name	Company/Title	Date/Time				
Received By: JML		Matthew Bishop	CTEH	05/20/25 / BUB				
Relinquished By:		Sydney Graybill	Enthalpy	5/11/25 0745				
Received By:								
Relinquished By:								
Received By:								

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: ESE0709 Client: CTEH
 Client Project ID: PNJ-050417
 Checklist Completed by: smc/jkr Shipped Via: TD
 Date/time completed: 5/21/25 (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 / 0.6 °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 ^{(1)?}	<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 ^{(1)?}	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ^{(1)?}	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ^{(1)?}		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ^{(1)?}	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ^{(1)?}	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ^{(1)?}	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ^{(1)?}	<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 ^{(1)?} (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analytes 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 Na ₂ O ₂ +NaOH, ZnAc+NaOH)	<input checked="" type="checkbox"/>			<u>NC</u>
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 be in the additional comments (above) and the case narrative.

Reviewed by [Signature] (Project Manager)

05/21/25 / KL
Date/Time Reviewed

Origins Laboratory

[Signature]

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

GACO0520T166S001
5/20/2025 4:50:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0709-01 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.726		0.101	mg/L	1	B5E2123	05/21/2025	05/22/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E2122	05/21/2025	05/21/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	103 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E2111	05/21/2025	05/21/2025	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
Surrogate: 1,2-Dichloroethane-d4	93.3 %			70-130		"	"	"	
Surrogate: Toluene-d8	109 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	93.6 %			70-130		"	"	"	

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GACO0520T166S001
5/20/2025 4:50:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0709-01 (Soil)
Origins Laboratory

Metals by Saturated Paste by EPA 6010

Calcium	1.55		0.499	meq/L	10	[CALC]	05/21/2025	05/23/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.448		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E2145	05/21/2025	05/22/2025	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
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

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 Project Number: PROJ-054017
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GACO0520T166S001
5/20/2025 4:50:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0709-01 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Pyrene	ND		0.020	mg/kg	1	B5E2145	05/21/2025	05/22/2025	U
Surrogate: Fluorene-d10	101 %			60-130		"	"	"	
Surrogate: Anthracene-d10	98.5 %			60-130		"	"	"	
Surrogate: Pyrene-d10	103 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	94.0 %			60-130		"	"	"	

pH in Soil by 9045D

pH	8.18			pH Units	1	B5E2131	05/21/2025	05/22/2025	
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SAR by 20B Saturated Paste

SAR	0.423		0.0100	SAR	1	B5E2120	05/21/2025	05/23/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.370		0.00500	mmhos/cm	1	B5E2131	05/21/2025	05/22/2025	
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Table 915 metals by EPA 6020B

Arsenic	3.57		0.252	mg/kg	10	B5E2138	05/21/2025	05/22/2025	
Barium	84.7		71.3	"	"	"	"	"	
Cadmium	ND		0.331	"	"	"	"	"	U
Copper	ND		40.0	"	"	"	"	"	U

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GACO0520T166S001
5/20/2025 4:50:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0709-01 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Lead	ND		12.2	mg/kg	10	B5E2138	05/21/2025	05/22/2025	U
Nickel	ND		22.6	"	"	"	"	"	U
Selenium	0.409		0.226	"	"	"	"	"	U
Silver	ND		0.696	"	"	"	"	"	U
Zinc	ND		322	"	"	"	"	"	U

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GACO0520T166T002
5/20/2025 7:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0709-02 (Water)									
Origins Laboratory									
VOC by EPA 8260D									
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L	1	B5E2160	05/21/2025	05/21/2025	U
1,1,1-Trichloroethane	ND		1.00	"	"	"	"	"	U
1,1,2,2-Tetrachloroethane	ND		1.00	"	"	"	"	"	U
1,1,2-Trichloroethane	ND		1.00	"	"	"	"	"	U
1,1-Dichloroethane	ND		1.00	"	"	"	"	"	U
1,1-Dichloroethene	ND		1.00	"	"	"	"	"	U
1,1-Dichloropropene	ND		1.00	"	"	"	"	"	U
1,2,3-Trichlorobenzene	ND		5.00	"	"	"	"	"	U
1,2,3-Trichloropropane	ND		5.00	"	"	"	"	"	U
1,2,4-Trichlorobenzene	ND		5.00	"	"	"	"	"	U
1,2,4-Trimethylbenzene	ND		1.00	"	"	"	"	"	U
1,2-Dibromo-3-chloropropane	ND		5.00	"	"	"	"	"	U
1,2-Dibromoethane (EDB)	ND		1.50	"	"	"	"	"	U
1,2-Dichlorobenzene	ND		1.00	"	"	"	"	"	U
1,2-Dichloroethane	ND		1.00	"	"	"	"	"	U
1,2-Dichloropropane	ND		1.00	"	"	"	"	"	U
1,3,5-Trimethylbenzene	ND		1.00	"	"	"	"	"	U
1,3-Dichlorobenzene	ND		1.00	"	"	"	"	"	U
1,3-Dichloropropane	ND		1.00	"	"	"	"	"	U

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Kyle Lawrence
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GACO0520T166T002
5/20/2025 7:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0709-02 (Water)									
Origins Laboratory									
VOC by EPA 8260D									
1,4-Dichlorobenzene	ND		1.00	ug/L	1	B5E2160	05/21/2025	05/21/2025	U
2,2-Dichloropropane	ND		1.00	"	"	"	"	"	U
2-Butanone	ND		5.00	"	"	"	"	"	U
2-Chlorotoluene	ND		1.00	"	"	"	"	"	U
2-Hexanone	ND		6.00	"	"	"	"	"	U
4-Chlorotoluene	ND		1.00	"	"	"	"	"	U
4-Isopropyltoluene	ND		1.00	"	"	"	"	"	U
4-Methyl-2-pentanone	ND		5.00	"	"	"	"	"	U
Acetone	ND		8.00	"	"	"	"	"	U
Benzene	ND		1.00	"	"	"	"	"	U
Bromobenzene	ND		1.00	"	"	"	"	"	U
Bromochloromethane	ND		1.00	"	"	"	"	"	U
Bromodichloromethane	ND		1.00	"	"	"	"	"	U
Bromoform	ND		1.00	"	"	"	"	"	U
Bromomethane	ND		1.00	"	"	"	"	"	U
Carbon disulfide	ND		5.00	"	"	"	"	"	U
Carbon tetrachloride	ND		1.00	"	"	"	"	"	U
Chlorobenzene	ND		1.00	"	"	"	"	"	U
Chloroethane	ND		1.00	"	"	"	"	"	U

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 Project Number: PROJ-054017
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GACO0520T166T002
5/20/2025 7:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0709-02 (Water)									
Origins Laboratory									
VOC by EPA 8260D									
Chloroform	ND		1.00	ug/L	1	B5E2160	05/21/2025	05/21/2025	U
Chloromethane	ND		1.00	"	"	"	"	"	U
cis-1,2-Dichloroethene	ND		1.00	"	"	"	"	"	U
cis-1,3-Dichloropropene	ND		1.00	"	"	"	"	"	U
Dibromochloromethane	ND		1.00	"	"	"	"	"	U
Dibromomethane	ND		1.00	"	"	"	"	"	U
Ethylbenzene	ND		1.00	"	"	"	"	"	U
Hexachlorobutadiene	ND		5.00	"	"	"	"	"	U
Iodomethane	ND		10.0	"	"	"	"	"	U
Isopropylbenzene	ND		1.00	"	"	"	"	"	U
m,p-Xylene	ND		2.00	"	"	"	"	"	U
Methylene Chloride	ND		15.0	"	"	"	"	"	U
Methyl tert-Butyl Ether	ND		1.00	"	"	"	"	"	U
Naphthalene	ND		4.00	"	"	"	"	"	U
n-Butylbenzene	ND		1.00	"	"	"	"	"	U
n-Propylbenzene	ND		1.00	"	"	"	"	"	U
o-Xylene	ND		1.00	"	"	"	"	"	U
sec-Butylbenzene	ND		1.00	"	"	"	"	"	U
Styrene	ND		1.00	"	"	"	"	"	U

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 Project Number: PROJ-054017
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GACO0520T166T002
5/20/2025 7:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0709-02 (Water)									
Origins Laboratory									
VOC by EPA 8260D									
tert-Butylbenzene	ND		1.00	ug/L	1	B5E2160	05/21/2025	05/21/2025	U
Tetrachloroethene	ND		1.00	"	"	"	"	"	U
Toluene	ND		1.00	"	"	"	"	"	U
trans-1,2-Dichloroethene	ND		1.00	"	"	"	"	"	U
trans-1,3-Dichloropropene	ND		1.00	"	"	"	"	"	U
Trichloroethene	ND		1.00	"	"	"	"	"	U
Trichlorofluoromethane	ND		1.00	"	"	"	"	"	U
Vinyl chloride	ND		1.00	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	111 %				70-130	"	"	"	
Surrogate: Toluene-d8	97.3 %				70-130	"	"	"	
Surrogate: 4-Bromofluorobenzene	90.7 %				70-130	"	"	"	

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CTEH
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 Project Number: PROJ-054017
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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 B5E2120 - Saturated Paste Metals

Blank (B5E2120-BLK1)

Prepared: 05/21/2025 Analyzed: 05/23/2025

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 (B5E2120-DUP1)

Source: E5E0503-01

Prepared: 05/21/2025 Analyzed: 05/23/2025

Calcium PPM	26.0	10.0	mg/L		31.6			19.4	50	
SAR	ND	0.0100	SAR		4.33				200	U
Magnesium PPM	5.60	10.0	mg/L		6.82			19.6	50	U
Sodium PPM	94.8	10.0	"		103			8.10	50	

Batch B5E2123 - DTPA Sorbitol Preparation

Blank (B5E2123-BLK1)

Prepared: 05/21/2025 Analyzed: 05/22/2025

Boron	ND	0.100	mg/L							U
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Duplicate (B5E2123-DUP1)

Source: E5E0695-01

Prepared: 05/21/2025 Analyzed: 05/22/2025

Boron	0.658	0.100	mg/L		0.493			28.7	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 B5E2145 - EPA 3580

Blank (B5E2145-BLK1)

Prepared: 05/21/2025 Analyzed: 05/21/2025

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		101	60-130			
Surrogate: Anthracene-d10	200		"	200		98.6	60-130			
Surrogate: Pyrene-d10	210		"	200		105	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		95.3	60-130			

LCS (B5E2145-BS1)

Prepared: 05/21/2025 Analyzed: 05/21/2025

1-Methylnaphthalene	0.213	0.002	mg/kg	0.200		106	70-130			
2-Methylnaphthalene	0.213	0.002	"	0.200		106	70-130			
Acenaphthene	0.216	0.020	"	0.200		108	70-130			
Anthracene	0.203	0.020	"	0.200		102	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
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Batch B5E2145 - EPA 3580

LCS (B5E2145-BS1)

Prepared: 05/21/2025 Analyzed: 05/21/2025

Benzo (a) anthracene	0.214	0.005	mg/kg	0.200		107	70-130			
Benzo (a) pyrene	0.201	0.020	"	0.200		100	70-130			
Benzo (b) fluoranthene	0.200	0.020	"	0.200		99.8	70-130			
Benzo (g,h,i) perylene	0.186	0.020	"	0.200		93.1	70-130			
Benzo (k) fluoranthene	0.196	0.020	"	0.200		97.8	70-130			
Chrysene	0.201	0.020	"	0.200		100	70-130			
Dibenz (a,h) anthracene	0.233	0.020	"	0.200		116	70-130			
Fluoranthene	0.210	0.020	"	0.200		105	70-130			
Fluorene	0.217	0.020	"	0.200		109	70-130			
Indeno (1,2,3-cd) pyrene	0.216	0.020	"	0.200		108	70-130			
Naphthalene	0.212	0.002	"	0.200		106	70-130			
Phenanthrene	0.212	0.020	"	0.200		106	70-130			
Pyrene	0.221	0.020	"	0.200		110	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	200		"	200		97.9	60-130			
Surrogate: Pyrene-d10	210		"	200		104	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		96.4	60-130			

Matrix Spike (B5E2145-MS1)

Source: E5E0705-19

Prepared: 05/21/2025 Analyzed: 05/21/2025

1-Methylnaphthalene	0.217	0.002	mg/kg	0.200	ND	109	70-130			
2-Methylnaphthalene	0.217	0.002	"	0.200	ND	109	70-130			
Acenaphthene	0.217	0.020	"	0.200	0.0004	108	70-130			
Anthracene	0.210	0.020	"	0.200	0.002	104	70-130			
Benzo (a) anthracene	0.226	0.005	"	0.200	0.005	110	70-130			
Benzo (a) pyrene	0.204	0.020	"	0.200	0.005	99.8	70-130			
Benzo (b) fluoranthene	0.213	0.020	"	0.200	0.006	104	70-130			
Benzo (g,h,i) perylene	0.183	0.020	"	0.200	0.005	89.2	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
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Batch B5E2145 - EPA 3580

Matrix Spike (B5E2145-MS1)

Source: E5E0705-19

Prepared: 05/21/2025 Analyzed: 05/21/2025

Benzo (k) fluoranthene	0.201	0.020	mg/kg	0.200	0.003	99.3	70-130			
Chrysene	0.211	0.020	"	0.200	0.006	103	70-130			
Dibenz (a,h) anthracene	0.237	0.020	"	0.200	0.0008	118	70-130			
Fluoranthene	0.217	0.020	"	0.200	0.009	104	70-130			
Fluorene	0.215	0.020	"	0.200	0.0006	107	70-130			
Indeno (1,2,3-cd) pyrene	0.208	0.020	"	0.200	0.004	102	70-130			
Naphthalene	0.214	0.002	"	0.200	0.001	107	70-130			
Phenanthrene	0.218	0.020	"	0.200	0.006	106	70-130			
Pyrene	0.228	0.020	"	0.200	0.009	109	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	200		"	200		98.2	60-130			
Surrogate: Pyrene-d10	210		"	200		104	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		96.3	60-130			

Matrix Spike Dup (B5E2145-MSD1)

Source: E5E0705-19

Prepared: 05/21/2025 Analyzed: 05/21/2025

1-Methylnaphthalene	0.230	0.002	mg/kg	0.200	ND	115	70-130	5.93	20	
2-Methylnaphthalene	0.231	0.002	"	0.200	ND	116	70-130	6.23	20	
Acenaphthene	0.231	0.020	"	0.200	0.0004	116	70-130	6.33	20	
Anthracene	0.224	0.020	"	0.200	0.002	111	70-130	6.47	20	
Benzo (a) anthracene	0.237	0.005	"	0.200	0.005	116	70-130	5.05	20	
Benzo (a) pyrene	0.216	0.020	"	0.200	0.005	106	70-130	5.65	20	
Benzo (b) fluoranthene	0.220	0.020	"	0.200	0.006	107	70-130	3.22	20	
Benzo (g,h,i) perylene	0.190	0.020	"	0.200	0.005	92.5	70-130	3.57	20	
Benzo (k) fluoranthene	0.206	0.020	"	0.200	0.003	102	70-130	2.26	20	
Chrysene	0.217	0.020	"	0.200	0.006	106	70-130	2.99	20	
Dibenz (a,h) anthracene	0.241	0.020	"	0.200	0.0008	120	70-130	1.37	20	
Fluoranthene	0.231	0.020	"	0.200	0.009	111	70-130	6.20	20	

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 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 B5E2145 - EPA 3580

Matrix Spike Dup (B5E2145-MSD1)

Source: E5E0705-19

Prepared: 05/21/2025 Analyzed: 05/21/2025

Fluorene	0.228	0.020	mg/kg	0.200	0.0006	114	70-130	6.07	20	
Indeno (1,2,3-cd) pyrene	0.221	0.020	"	0.200	0.004	109	70-130	6.17	20	
Naphthalene	0.228	0.002	"	0.200	0.001	113	70-130	5.97	20	
Phenanthrene	0.230	0.020	"	0.200	0.006	112	70-130	5.24	20	
Pyrene	0.238	0.020	"	0.200	0.009	114	70-130	4.58	20	
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	200		"	200		98.8	60-130			
Surrogate: Pyrene-d10	210		"	200		103	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		96.7	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
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Batch B5E2122 - EPA 3550B

Blank (B5E2122-BLK1)

Prepared: 05/21/2025 Analyzed: 05/21/2025

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	27		"	24.9		109	50-150			

LCS (B5E2122-BS1)

Prepared: 05/21/2025 Analyzed: 05/21/2025

Diesel (C10-C28)	856	50.0	mg/kg	1000		85.6	70-130			
Residual Range Organics (C28-C40)	807	200	"	1000		80.7	70-130			
Surrogate: o-Terphenyl	55		"	49.8		110	50-150			

Matrix Spike (B5E2122-MS1)

Source: E5E0701-01

Prepared: 05/21/2025 Analyzed: 05/21/2025

Diesel (C10-C28)	788	50.0	mg/kg	1000	ND	78.8	70-130			
Residual Range Organics (C28-C40)	713	200	"	1000	ND	71.3	70-130			
Surrogate: o-Terphenyl	52		"	49.8		105	50-150			

Matrix Spike Dup (B5E2122-MSD1)

Source: E5E0701-01

Prepared: 05/21/2025 Analyzed: 05/21/2025

Diesel (C10-C28)	732	50.0	mg/kg	1000	ND	73.2	70-130	7.34	35	
Residual Range Organics (C28-C40)	679	200	"	1000	ND	67.9	70-130	4.88	35	QM-07
Surrogate: o-Terphenyl	53		"	49.8		106	50-150			

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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
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Batch B5E2138 - EPA 3050B

Blank (B5E2138-BLK1)

Prepared: 05/21/2025 Analyzed: 05/22/2025

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 (B5E2138-BS1)

Prepared: 05/21/2025 Analyzed: 05/22/2025

Arsenic	4.86	0.290	mg/kg	5.00		97.2	80-120			
Barium	457	82.0	"	500		91.4	80-120			
Cadmium	4.86	0.380	"	5.00		97.2	80-120			
Copper	45.3	46.0	"	50.0		90.7	80-120			U
Lead	4.55	14.0	"	5.00		91.1	80-120			U
Nickel	4.55	26.0	"	5.00		90.9	80-120			U
Selenium	4.86	0.260	"	5.00		97.1	80-120			
Silver	4.51	0.800	"	5.00		90.2	80-120			
Zinc	44.0	370	"	50.0		87.9	80-120			U

Matrix Spike (B5E2138-MS1)

Source: E5E0705-05

Prepared: 05/21/2025 Analyzed: 05/22/2025

Arsenic	7.66	0.279	mg/kg	4.80	3.88	78.7	75-125			
Barium	493	78.8	"	480	78.2	86.4	75-125			
Cadmium	4.90	0.365	"	4.80	0.526	91.0	75-125			
Copper	49.1	44.2	"	48.0	10.1	81.2	75-125			
Lead	30.4	13.5	"	4.80	29.2	24.2	75-125			QM-07

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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 B5E2138 - EPA 3050B

Matrix Spike (B5E2138-MS1)

Source: E5E0705-05

Prepared: 05/21/2025 Analyzed: 05/22/2025

Nickel	10.6	25.0	mg/kg	4.80	7.83	57.1	75-125			QM-07, U
Selenium	4.48	0.250	"	4.80	0.350	85.9	75-125			
Silver	5.18	0.769	"	4.80	0.300	102	75-125			
Zinc	135	355	"	48.0	108	54.8	75-125			QM-07, U

Matrix Spike Dup (B5E2138-MSD1)

Source: E5E0705-05

Prepared: 05/21/2025 Analyzed: 05/22/2025

Arsenic	7.36	0.242	mg/kg	4.18	3.88	83.1	75-125	4.05	20	
Barium	453	68.6	"	418	78.2	89.7	75-125	8.50	20	
Cadmium	4.41	0.318	"	4.18	0.526	92.9	75-125	10.4	20	
Copper	43.7	38.5	"	41.8	10.1	80.2	75-125	11.7	20	
Lead	30.2	11.7	"	4.18	29.2	23.7	75-125	0.562	20	QM-07
Nickel	10.2	21.7	"	4.18	7.83	56.0	75-125	3.87	20	QM-07, U
Selenium	4.06	0.217	"	4.18	0.350	88.8	75-125	9.63	20	
Silver	3.95	0.669	"	4.18	0.300	87.2	75-125	27.0	20	QR-DUP
Zinc	126	309	"	41.8	108	42.3	75-125	6.65	20	QM-07, U

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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

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 B5E2131 - Saturated Paste pH/EC

Blank (B5E2131-BLK1)

Prepared: 05/21/2025 Analyzed: 05/22/2025

Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
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Duplicate (B5E2131-DUP1)

Source: E5E0503-01

Prepared: 05/21/2025 Analyzed: 05/22/2025

Specific Conductance (EC)	0.715	0.00500	mmhos/cm		0.784			9.33	25	
pH	8.28		pH Units		8.27			0.121	25	

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CTEH
 5120 North Shore Drive
 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 B5E2111 - EPA 5030 (soil)

Blank (B5E2111-BLK1)

Prepared: 05/21/2025 Analyzed: 05/21/2025

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	101	70-130				
Surrogate: Toluene-d8	0.13		"	0.125	101	70-130				
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	97.7	70-130				

LCS (B5E2111-BS1)

Prepared: 05/21/2025 Analyzed: 05/21/2025

1,2,4-Trimethylbenzene	0.0998	0.00200	mg/kg	0.100	99.8	70-130				
1,3,5-Trimethylbenzene	0.100	0.00200	"	0.100	100	70-130				
Benzene	0.0942	0.00200	"	0.100	94.2	70-130				
Ethylbenzene	0.0932	0.00200	"	0.100	93.2	70-130				
Naphthalene	0.107	0.00380	"	0.100	107	70-130				
Toluene	0.0896	0.00200	"	0.100	89.6	70-130				
o-Xylene	0.0936	0.00200	"	0.100	93.6	70-130				
m,p-Xylene	0.182	0.00400	"	0.200	90.9	70-130				

Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125	99.4	70-130				
Surrogate: Toluene-d8	0.12		"	0.125	97.2	70-130				
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	99.0	70-130				

Matrix Spike (B5E2111-MS1)

Source: E5E0701-01

Prepared: 05/21/2025 Analyzed: 05/21/2025

1,2,4-Trimethylbenzene	0.0583	0.00200	mg/kg	0.100	ND	58.3	70-130			QM-07
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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

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 B5E2111 - EPA 5030 (soil)

Matrix Spike (B5E2111-MS1)

Source: E5E0701-01

Prepared: 05/21/2025 Analyzed: 05/21/2025

1,3,5-Trimethylbenzene	0.0584	0.00200	mg/kg	0.100	ND	58.4	70-130			QM-07
Benzene	0.0799	0.00200	"	0.100	ND	79.9	70-130			
Ethylbenzene	0.0699	0.00200	"	0.100	ND	69.9	70-130			QM-07
Naphthalene	0.0526	0.00380	"	0.100	ND	52.6	70-130			QM-07
Toluene	0.0712	0.00200	"	0.100	ND	71.2	70-130			
o-Xylene	0.0688	0.00200	"	0.100	ND	68.8	70-130			QM-07
m,p-Xylene	0.134	0.00400	"	0.200	ND	66.8	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		111	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

Matrix Spike Dup (B5E2111-MSD1)

Source: E5E0701-01

Prepared: 05/21/2025 Analyzed: 05/21/2025

1,2,4-Trimethylbenzene	0.0754	0.00200	mg/kg	0.100	ND	75.4	70-130	25.6	20	QR-02
1,3,5-Trimethylbenzene	0.0771	0.00200	"	0.100	ND	77.1	70-130	27.6	20	QR-02
Benzene	0.102	0.00200	"	0.100	ND	102	70-130	24.4	20	QR-02
Ethylbenzene	0.0921	0.00200	"	0.100	ND	92.1	70-130	27.4	20	QR-02
Naphthalene	0.0672	0.00380	"	0.100	ND	67.2	70-130	24.3	20	QM-07, QR-02
Toluene	0.0953	0.00200	"	0.100	ND	95.3	70-130	29.0	20	QR-02
o-Xylene	0.0930	0.00200	"	0.100	ND	93.0	70-130	29.9	20	QR-02
m,p-Xylene	0.177	0.00400	"	0.200	ND	88.6	70-130	28.0	20	QR-02
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		115	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

Batch B5E2160 - EPA 5030B (Water)

Blank (B5E2160-BLK1)

Prepared: 05/21/2025 Analyzed: 05/21/2025

Origins Laboratory

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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

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 B5E2160 - EPA 5030B (Water)

Blank (B5E2160-BLK1)

Prepared: 05/21/2025 Analyzed: 05/21/2025

1,1,1,2-Tetrachloroethane	ND	1.00	ug/L							U
1,1,1-Trichloroethane	ND	1.00	"							U
1,1,2,2-Tetrachloroethane	ND	1.00	"							U
1,1,2-Trichloroethane	ND	1.00	"							U
1,1-Dichloroethane	ND	1.00	"							U
1,1-Dichloroethene	ND	1.00	"							U
1,1-Dichloropropene	ND	1.00	"							U
1,2,3-Trichlorobenzene	ND	5.00	"							U
1,2,3-Trichloropropane	ND	5.00	"							U
1,2,4-Trichlorobenzene	ND	5.00	"							U
1,2,4-Trimethylbenzene	ND	1.00	"							U
1,2-Dibromo-3-chloropropane	ND	5.00	"							U
1,2-Dibromoethane (EDB)	ND	1.50	"							U
1,2-Dichlorobenzene	ND	1.00	"							U
1,2-Dichloroethane	ND	1.00	"							U
1,2-Dichloropropane	ND	1.00	"							U
1,3,5-Trimethylbenzene	ND	1.00	"							U
1,3-Dichlorobenzene	ND	1.00	"							U
1,3-Dichloropropane	ND	1.00	"							U
1,4-Dichlorobenzene	ND	1.00	"							U
2,2-Dichloropropane	ND	1.00	"							U
2-Butanone	ND	5.00	"							U
2-Chlorotoluene	ND	1.00	"							U
2-Hexanone	ND	6.00	"							U
4-Chlorotoluene	ND	1.00	"							U
4-Isopropyltoluene	ND	1.00	"							U

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Kyle Lawrence
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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 B5E2160 - EPA 5030B (Water)

Blank (B5E2160-BLK1)

Prepared: 05/21/2025 Analyzed: 05/21/2025

4-Methyl-2-pentanone	ND	5.00	ug/L							U
Acetone	ND	8.00	"							U
Benzene	ND	1.00	"							U
Bromobenzene	ND	1.00	"							U
Bromochloromethane	ND	1.00	"							U
Bromodichloromethane	ND	1.00	"							U
Bromoform	ND	1.00	"							U
Bromomethane	ND	1.00	"							U
Carbon disulfide	ND	5.00	"							U
Carbon tetrachloride	ND	1.00	"							U
Chlorobenzene	ND	1.00	"							U
Chloroethane	ND	1.00	"							U
Chloroform	ND	1.00	"							U
Chloromethane	ND	1.00	"							U
cis-1,2-Dichloroethene	ND	1.00	"							U
cis-1,3-Dichloropropene	ND	1.00	"							U
Dibromochloromethane	ND	1.00	"							U
Dibromomethane	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Hexachlorobutadiene	ND	5.00	"							U
Iodomethane	ND	10.0	"							U
Isopropylbenzene	ND	1.00	"							U
m,p-Xylene	ND	2.00	"							U
Methylene Chloride	ND	15.0	"							U
Methyl tert-Butyl Ether	ND	1.00	"							U
Naphthalene	ND	4.00	"							U

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Kyle Lawrence
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 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 B5E2160 - EPA 5030B (Water)

Blank (B5E2160-BLK1)

Prepared: 05/21/2025 Analyzed: 05/21/2025

n-Butylbenzene	ND	1.00	ug/L							U
n-Propylbenzene	ND	1.00	"							U
o-Xylene	ND	1.00	"							U
sec-Butylbenzene	ND	1.00	"							U
Styrene	ND	1.00	"							U
tert-Butylbenzene	ND	1.00	"							U
Tetrachloroethene	ND	1.00	"							U
Toluene	ND	1.00	"							U
trans-1,2-Dichloroethene	ND	1.00	"							U
trans-1,3-Dichloropropene	ND	1.00	"							U
Trichloroethene	ND	1.00	"							U
Trichlorofluoromethane	ND	1.00	"							U
Vinyl chloride	ND	1.00	"							U

Surrogate: 1,2-Dichloroethane-d4	68		"	62.5		108	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

LCS (B5E2160-BS1)

Prepared: 05/21/2025 Analyzed: 05/21/2025

1,1,1,2-Tetrachloroethane	52.2	1.00	ug/L	50.0		104	70-130			
1,1,1-Trichloroethane	50.6	1.00	"	50.0		101	70-130			
1,1,2,2-Tetrachloroethane	48.4	1.00	"	50.0		96.9	70-130			
1,1,2-Trichloroethane	49.1	1.00	"	50.0		98.2	70-130			
1,1-Dichloroethane	47.6	1.00	"	50.0		95.2	70-130			
1,1-Dichloroethene	49.2	1.00	"	50.0		98.5	70-130			
1,1-Dichloropropene	47.8	1.00	"	50.0		95.6	70-130			
1,2,3-Trichlorobenzene	55.6	5.00	"	50.0		111	70-130			
1,2,3-Trichloropropane	44.5	5.00	"	50.0		89.0	70-130			

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Jen Pellegrini For Jordan A. Bynon, Project Manager



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Kyle Lawrence
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 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 B5E2160 - EPA 5030B (Water)

LCS (B5E2160-BS1)

Prepared: 05/21/2025 Analyzed: 05/21/2025

1,2,4-Trichlorobenzene	58.6	5.00	ug/L	50.0		117	70-130			
1,2,4-Trimethylbenzene	52.4	1.00	"	50.0		105	70-130			
1,2-Dibromo-3-chloropropane	52.9	5.00	"	50.0		106	70-130			
1,2-Dibromoethane (EDB)	48.9	1.50	"	50.0		97.8	70-130			
1,2-Dichlorobenzene	50.2	1.00	"	50.0		100	70-130			
1,2-Dichloroethane	53.7	1.00	"	50.0		107	70-130			
1,2-Dichloropropane	49.2	1.00	"	50.0		98.3	70-130			
1,3,5-Trimethylbenzene	52.9	1.00	"	50.0		106	70-130			
1,3-Dichlorobenzene	51.8	1.00	"	50.0		104	70-130			
1,3-Dichloropropane	48.1	1.00	"	50.0		96.2	70-130			
1,4-Dichlorobenzene	50.9	1.00	"	50.0		102	70-130			
2,2-Dichloropropane	50.8	1.00	"	50.0		102	70-130			
2-Butanone	214	5.00	"	250		85.7	70-130			
2-Chlorotoluene	50.4	1.00	"	50.0		101	70-130			
2-Hexanone	205	6.00	"	250		81.9	70-130			
4-Chlorotoluene	51.9	1.00	"	50.0		104	70-130			
4-Isopropyltoluene	52.9	1.00	"	50.0		106	70-130			
4-Methyl-2-pentanone	225	5.00	"	250		89.8	70-130			
Acetone	237	8.00	"	250		94.9	70-130			
Benzene	46.7	1.00	"	50.0		93.4	70-130			
Bromobenzene	48.9	1.00	"	50.0		97.9	70-130			
Bromochloromethane	50.2	1.00	"	50.0		100	70-130			
Bromodichloromethane	55.4	1.00	"	50.0		111	70-130			
Bromoform	53.8	1.00	"	50.0		108	70-130			
Bromomethane	52.0	1.00	"	50.0		104	70-130			
Carbon disulfide	49.6	5.00	"	50.0		99.2	70-130			

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Kyle Lawrence
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 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 B5E2160 - EPA 5030B (Water)

LCS (B5E2160-BS1)

Prepared: 05/21/2025 Analyzed: 05/21/2025

Carbon tetrachloride	50.9	1.00	ug/L	50.0		102	70-130			
Chlorobenzene	48.2	1.00	"	50.0		96.3	70-130			
Chloroethane	54.2	1.00	"	50.0		108	70-130			
Chloroform	52.6	1.00	"	50.0		105	70-130			
Chloromethane	49.4	1.00	"	50.0		98.8	70-130			
cis-1,2-Dichloroethene	48.6	1.00	"	50.0		97.2	70-130			
cis-1,3-Dichloropropene	51.1	1.00	"	50.0		102	70-130			
Dibromochloromethane	55.2	1.00	"	50.0		110	70-130			
Dibromomethane	52.0	1.00	"	50.0		104	70-130			
Ethylbenzene	49.7	1.00	"	50.0		99.4	70-130			
Hexachlorobutadiene	59.3	5.00	"	50.0		119	70-130			
Iodomethane	49.9	10.0	"	50.0		99.8	70-130			
Isopropylbenzene	50.6	1.00	"	50.0		101	70-130			
m,p-Xylene	98.8	2.00	"	100		98.8	70-130			
Methylene Chloride	47.3	15.0	"	50.0		94.6	70-130			
Methyl tert-Butyl Ether	39.6	1.00	"	50.0		79.2	70-130			
Naphthalene	50.2	4.00	"	50.0		100	70-130			
n-Butylbenzene	54.5	1.00	"	50.0		109	70-130			
n-Propylbenzene	51.0	1.00	"	50.0		102	70-130			
o-Xylene	50.0	1.00	"	50.0		100	70-130			
sec-Butylbenzene	51.8	1.00	"	50.0		104	70-130			
Styrene	48.7	1.00	"	50.0		97.4	70-130			
tert-Butylbenzene	52.2	1.00	"	50.0		104	70-130			
Tetrachloroethene	51.9	1.00	"	50.0		104	70-130			
Toluene	48.3	1.00	"	50.0		96.5	70-130			
trans-1,2-Dichloroethene	48.2	1.00	"	50.0		96.5	70-130			

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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 B5E2160 - EPA 5030B (Water)

LCS (B5E2160-BS1)

Prepared: 05/21/2025 Analyzed: 05/21/2025

trans-1,3-Dichloropropene	49.4	1.00	ug/L	50.0		98.7	70-130			
Trichloroethene	52.0	1.00	"	50.0		104	70-130			
Trichlorofluoromethane	58.0	1.00	"	50.0		116	70-130			
Vinyl chloride	53.5	1.00	"	50.0		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	69		"	62.5		110	70-130			
Surrogate: Toluene-d8	63		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.9	70-130			

Matrix Spike (B5E2160-MS1)

Source: E5E0701-06

Prepared: 05/21/2025 Analyzed: 05/21/2025

1,1,1,2-Tetrachloroethane	55.1	1.00	ug/L	50.0	ND	110	70-130			
1,1,1-Trichloroethane	47.5	1.00	"	50.0	ND	95.0	70-130			
1,1,2,2-Tetrachloroethane	40.1	1.00	"	50.0	ND	80.3	70-130			
1,1,2-Trichloroethane	40.4	1.00	"	50.0	ND	80.8	70-130			
1,1-Dichloroethane	41.4	1.00	"	50.0	ND	82.7	70-130			
1,1-Dichloroethene	43.8	1.00	"	50.0	ND	87.5	70-130			
1,1-Dichloropropene	48.8	1.00	"	50.0	ND	97.6	70-130			
1,2,3-Trichlorobenzene	48.1	5.00	"	50.0	ND	96.2	70-130			
1,2,3-Trichloropropane	38.5	5.00	"	50.0	ND	77.1	70-130			
1,2,4-Trichlorobenzene	50.8	5.00	"	50.0	ND	102	70-130			
1,2,4-Trimethylbenzene	55.2	1.00	"	50.0	ND	110	70-130			
1,2-Dibromo-3-chloropropane	36.3	5.00	"	50.0	ND	72.6	70-130			
1,2-Dibromoethane (EDB)	40.2	1.50	"	50.0	ND	80.4	70-130			
1,2-Dichlorobenzene	48.6	1.00	"	50.0	ND	97.2	70-130			
1,2-Dichloroethane	46.2	1.00	"	50.0	ND	92.5	70-130			
1,2-Dichloropropane	37.7	1.00	"	50.0	ND	75.4	70-130			
1,3,5-Trimethylbenzene	55.8	1.00	"	50.0	ND	112	70-130			
1,3-Dichlorobenzene	53.2	1.00	"	50.0	ND	106	70-130			

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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 B5E2160 - EPA 5030B (Water)

Matrix Spike (B5E2160-MS1)

Source: E5E0701-06

Prepared: 05/21/2025 Analyzed: 05/21/2025

1,3-Dichloropropane	40.4	1.00	ug/L	50.0	ND	80.8	70-130			
1,4-Dichlorobenzene	50.9	1.00	"	50.0	ND	102	70-130			
2,2-Dichloropropane	45.3	1.00	"	50.0	ND	90.6	70-130			
2-Butanone	146	5.00	"	250	ND	58.6	70-130			QM-07
2-Chlorotoluene	53.1	1.00	"	50.0	ND	106	70-130			
2-Hexanone	142	6.00	"	250	ND	56.9	70-130			QM-07
4-Chlorotoluene	54.6	1.00	"	50.0	ND	109	70-130			
4-Isopropyltoluene	56.5	1.00	"	50.0	ND	113	70-130			
4-Methyl-2-pentanone	157	5.00	"	250	ND	62.8	70-130			QM-07
Acetone	171	8.00	"	250	ND	68.6	70-130			QM-07
Benzene	47.6	1.00	"	50.0	ND	95.3	70-130			
Bromobenzene	49.1	1.00	"	50.0	ND	98.1	70-130			
Bromochloromethane	42.6	1.00	"	50.0	ND	85.1	70-130			
Bromodichloromethane	42.1	1.00	"	50.0	ND	84.3	70-130			
Bromoform	48.7	1.00	"	50.0	ND	97.5	70-130			
Bromomethane	47.8	1.00	"	50.0	ND	95.7	70-130			
Carbon disulfide	43.7	5.00	"	50.0	ND	87.3	70-130			
Carbon tetrachloride	51.6	1.00	"	50.0	ND	103	70-130			
Chlorobenzene	48.3	1.00	"	50.0	ND	96.6	70-130			
Chloroethane	49.8	1.00	"	50.0	ND	99.6	70-130			
Chloroform	46.0	1.00	"	50.0	ND	92.0	70-130			
Chloromethane	46.6	1.00	"	50.0	ND	93.2	70-130			
cis-1,2-Dichloroethene	41.7	1.00	"	50.0	ND	83.4	70-130			
cis-1,3-Dichloropropene	43.0	1.00	"	50.0	ND	85.9	70-130			
Dibromochloromethane	44.9	1.00	"	50.0	ND	89.8	70-130			
Dibromomethane	38.9	1.00	"	50.0	ND	77.8	70-130			

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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 B5E2160 - EPA 5030B (Water)

Matrix Spike (B5E2160-MS1)

Source: E5E0701-06

Prepared: 05/21/2025 Analyzed: 05/21/2025

Ethylbenzene	57.0	1.00	ug/L	50.0	ND	114	70-130			
Hexachlorobutadiene	61.6	5.00	"	50.0	ND	123	70-130			
Iodomethane	43.6	10.0	"	50.0	ND	87.1	70-130			
Isopropylbenzene	55.1	1.00	"	50.0	ND	110	70-130			
m,p-Xylene	113	2.00	"	100	ND	113	70-130			
Methylene Chloride	39.5	15.0	"	50.0	ND	79.0	70-130			
Methyl tert-Butyl Ether	28.2	1.00	"	50.0	ND	56.4	70-130			QM-07
Naphthalene	39.6	4.00	"	50.0	ND	79.1	70-130			
n-Butylbenzene	57.7	1.00	"	50.0	ND	115	70-130			
n-Propylbenzene	55.4	1.00	"	50.0	ND	111	70-130			
o-Xylene	58.4	1.00	"	50.0	ND	117	70-130			
sec-Butylbenzene	55.8	1.00	"	50.0	ND	112	70-130			
Styrene	55.9	1.00	"	50.0	ND	112	70-130			
tert-Butylbenzene	56.0	1.00	"	50.0	ND	112	70-130			
Tetrachloroethene	50.5	1.00	"	50.0	ND	101	70-130			
Toluene	46.4	1.00	"	50.0	ND	92.8	70-130			
trans-1,2-Dichloroethene	42.5	1.00	"	50.0	ND	84.9	70-130			
trans-1,3-Dichloropropene	42.1	1.00	"	50.0	ND	84.2	70-130			
Trichloroethene	44.6	1.00	"	50.0	ND	89.2	70-130			
Trichlorofluoromethane	51.3	1.00	"	50.0	ND	103	70-130			
Vinyl chloride	49.1	1.00	"	50.0	ND	98.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		95.4	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.1	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

Matrix Spike Dup (B5E2160-MSD1)

Source: E5E0701-06

Prepared: 05/21/2025 Analyzed: 05/21/2025

1,1,1,2-Tetrachloroethane	56.4	1.00	ug/L	50.0	ND	113	70-130	2.37	20	
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 5120 North Shore Drive
 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 B5E2160 - EPA 5030B (Water)

Matrix Spike Dup (B5E2160-MSD1)

Source: E5E0701-06

Prepared: 05/21/2025 Analyzed: 05/21/2025

1,1,1-Trichloroethane	54.0	1.00	ug/L	50.0	ND	108	70-130	12.9	20	
1,1,2,2-Tetrachloroethane	46.7	1.00	"	50.0	ND	93.4	70-130	15.2	20	
1,1,2-Trichloroethane	43.8	1.00	"	50.0	ND	87.7	70-130	8.12	20	
1,1-Dichloroethane	45.7	1.00	"	50.0	ND	91.4	70-130	9.97	20	
1,1-Dichloroethene	47.9	1.00	"	50.0	ND	95.8	70-130	9.08	20	
1,1-Dichloropropene	52.1	1.00	"	50.0	ND	104	70-130	6.52	20	
1,2,3-Trichlorobenzene	53.5	5.00	"	50.0	ND	107	70-130	10.6	20	
1,2,3-Trichloropropane	46.0	5.00	"	50.0	ND	91.9	70-130	17.6	20	
1,2,4-Trichlorobenzene	53.8	5.00	"	50.0	ND	108	70-130	5.72	20	
1,2,4-Trimethylbenzene	52.0	1.00	"	50.0	ND	104	70-130	5.95	20	
1,2-Dibromo-3-chloropropane	46.7	5.00	"	50.0	ND	93.3	70-130	25.1	20	QR-02
1,2-Dibromoethane (EDB)	44.9	1.50	"	50.0	ND	89.8	70-130	11.0	20	
1,2-Dichlorobenzene	49.0	1.00	"	50.0	ND	98.1	70-130	0.881	20	
1,2-Dichloroethane	51.7	1.00	"	50.0	ND	103	70-130	11.1	20	
1,2-Dichloropropane	43.8	1.00	"	50.0	ND	87.7	70-130	15.1	20	
1,3,5-Trimethylbenzene	52.1	1.00	"	50.0	ND	104	70-130	6.90	20	
1,3-Dichlorobenzene	51.2	1.00	"	50.0	ND	102	70-130	3.85	20	
1,3-Dichloropropane	44.0	1.00	"	50.0	ND	88.0	70-130	8.56	20	
1,4-Dichlorobenzene	49.7	1.00	"	50.0	ND	99.4	70-130	2.39	20	
2,2-Dichloropropane	50.4	1.00	"	50.0	ND	101	70-130	10.6	20	
2-Butanone	209	5.00	"	250	ND	83.5	70-130	35.1	20	QR-02
2-Chlorotoluene	49.8	1.00	"	50.0	ND	99.5	70-130	6.42	20	
2-Hexanone	192	6.00	"	250	ND	77.0	70-130	29.9	20	QR-02
4-Chlorotoluene	51.3	1.00	"	50.0	ND	103	70-130	6.18	20	
4-Isopropyltoluene	52.8	1.00	"	50.0	ND	106	70-130	6.80	20	
4-Methyl-2-pentanone	202	5.00	"	250	ND	80.8	70-130	25.1	20	QR-02

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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 B5E2160 - EPA 5030B (Water)

Matrix Spike Dup (B5E2160-MSD1)

Source: E5E0701-06

Prepared: 05/21/2025 Analyzed: 05/21/2025

Acetone	225	8.00	ug/L	250	ND	90.0	70-130	27.0	20	QR-02
Benzene	51.0	1.00	"	50.0	ND	102	70-130	6.81	20	
Bromobenzene	47.8	1.00	"	50.0	ND	95.6	70-130	2.64	20	
Bromochloromethane	50.3	1.00	"	50.0	ND	101	70-130	16.7	20	
Bromodichloromethane	49.7	1.00	"	50.0	ND	99.3	70-130	16.4	20	
Bromoform	54.8	1.00	"	50.0	ND	110	70-130	11.8	20	
Bromomethane	51.1	1.00	"	50.0	ND	102	70-130	6.59	20	
Carbon disulfide	47.7	5.00	"	50.0	ND	95.4	70-130	8.87	20	
Carbon tetrachloride	55.8	1.00	"	50.0	ND	112	70-130	7.75	20	
Chlorobenzene	47.7	1.00	"	50.0	ND	95.3	70-130	1.38	20	
Chloroethane	52.6	1.00	"	50.0	ND	105	70-130	5.41	20	
Chloroform	51.9	1.00	"	50.0	ND	104	70-130	12.1	20	
Chloromethane	47.3	1.00	"	50.0	ND	94.5	70-130	1.36	20	
cis-1,2-Dichloroethene	46.8	1.00	"	50.0	ND	93.5	70-130	11.5	20	
cis-1,3-Dichloropropene	43.4	1.00	"	50.0	ND	86.9	70-130	1.13	20	
Dibromochloromethane	49.2	1.00	"	50.0	ND	98.5	70-130	9.20	20	
Dibromomethane	49.1	1.00	"	50.0	ND	98.2	70-130	23.2	20	QR-02
Ethylbenzene	56.5	1.00	"	50.0	ND	113	70-130	0.951	20	
Hexachlorobutadiene	59.0	5.00	"	50.0	ND	118	70-130	4.21	20	
Iodomethane	48.1	10.0	"	50.0	ND	96.1	70-130	9.80	20	
Isopropylbenzene	50.6	1.00	"	50.0	ND	101	70-130	8.52	20	
m,p-Xylene	112	2.00	"	100	ND	112	70-130	0.806	20	
Methylene Chloride	44.2	15.0	"	50.0	ND	88.5	70-130	11.4	20	
Methyl tert-Butyl Ether	37.5	1.00	"	50.0	ND	75.1	70-130	28.4	20	QR-02
Naphthalene	49.2	4.00	"	50.0	ND	98.5	70-130	21.8	20	QR-02
n-Butylbenzene	54.3	1.00	"	50.0	ND	109	70-130	5.95	20	

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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 B5E2160 - EPA 5030B (Water)

Matrix Spike Dup (B5E2160-MSD1)

Source: E5E0701-06

Prepared: 05/21/2025 Analyzed: 05/21/2025

n-Propylbenzene	51.0	1.00	ug/L	50.0	ND	102	70-130	8.23	20	
o-Xylene	55.4	1.00	"	50.0	ND	111	70-130	5.31	20	
sec-Butylbenzene	51.7	1.00	"	50.0	ND	103	70-130	7.55	20	
Styrene	54.0	1.00	"	50.0	ND	108	70-130	3.57	20	
tert-Butylbenzene	51.5	1.00	"	50.0	ND	103	70-130	8.37	20	
Tetrachloroethene	49.1	1.00	"	50.0	ND	98.3	70-130	2.73	20	
Toluene	44.4	1.00	"	50.0	ND	88.8	70-130	4.43	20	
trans-1,2-Dichloroethene	46.6	1.00	"	50.0	ND	93.3	70-130	9.40	20	
trans-1,3-Dichloropropene	45.7	1.00	"	50.0	ND	91.3	70-130	8.16	20	
Trichloroethene	48.7	1.00	"	50.0	ND	97.4	70-130	8.79	20	
Trichlorofluoromethane	53.8	1.00	"	50.0	ND	108	70-130	4.80	20	
Vinyl chloride	51.5	1.00	"	50.0	ND	103	70-130	4.85	20	
Surrogate: 1,2-Dichloroethane-d4	70		"	62.5		113	70-130			
Surrogate: Toluene-d8	58		"	62.5		93.2	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

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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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