



CTEH

Kyle Lawrence

5120 North Shore Drive

North Little RockAR 72118

June 05, 2025

Project Name - PROJ-054017

Project Number - PROJ-054017

Attached are your analytical results for PROJ-054017 received by Origins Laboratory May 14, 2025. This project is associated with Origins project number E5E0440-01.

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
GACO0513T066S002	E5E0440-01	Soil	May 13, 2025 8:50	05/14/2025 07:30
GACO0513T066C002	E5E0440-02	Soil	May 13, 2025 8:50	05/14/2025 07:30
GACO0513T066T002	E5E0440-03	Water	May 13, 2025 7:00	05/14/2025 07:30

Origins Laboratory

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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Project Number: PROJ-054017

Project: PROJ-054017

E5E0440

Chain of Custody Record				Turn Around Time (rush by advanced notice only)			
Lab No:		Page: _____ of _____		Standard	1 Day	3 Day	Custom TAT
ENTHALPY ANALYTICAL Enthalpy Analytical - Denver 1725 W. Elk Place, Denver CO 80211 Phone: 303-433-1332				Sample Receipt Temp and Notes: 1 = No S.O. 2 = HCl 3 = HNO ₃ 4 = H ₂ SO ₄ 5 = NaOH 6 = Other (lab use only)			
				Sample Type: C = Composite G = Grab or Discrete B = Blank O = Other			
CUSTOMER INFORMATION Company: CTEH Report To: Cheryl Bishop, Kyle Lawrence, Eric Caffrey, Andrew Hensell, Tim McElroy, Madelyn Strickman Email: kyle.lawrence@cteh.com, eric.caffrey@cteh.com, andrew.hensell@cteh.com, tim.mcelroy@cteh.com, madelyn.strickman@cteh.com Address: 5120 Northshore Dr, North Little Rock, AR 72118 Phone: _____ Global ID: _____				PROJECT INFORMATION Name: PROJ-054017 Bishop, Loss of Containment Number: _____ P.O. #: _____ Address: Galeton, CO Site Name: _____ Global ID: _____ Sampled By: Andrew Schell, Andrew Schell			
Analysis Request VOCs 82600 Table 915				Test Instructions / Comments			
SAMPLE INFORMATION Sample ID: 1 6AC0813106650802 Sampling Date: 5/13/2025 Sampling Time (24 hr): 8:50 S Matrix: G Sample Type: G Pres. No.: 3 Cont. Size: 4 oz AS Sample ID: 2 6AC0813106660802 Sampling Date: 5/13/2025 Sampling Time (24 hr): 8:50 S Matrix: G Sample Type: G Pres. No.: 3 Cont. Size: 4 oz AS Sample ID: 3 6AC08131066610802 Sampling Date: 5/13/2025 Sampling Time (24 hr): 7:00 X Matrix: B Sample Type: B Pres. No.: 2 Cont. Size: 40 mL AS				Signature Relinquished By: Andrew Schell Received By: Scott Relinquished By: _____ Received By: _____ Relinquished By: _____ Received By: _____			
Company / Title Enthalpy, Inc. Sydney Craighead, Enthalpy				Date / Time 05/13/25 18:00 5/14/25 7:30			

Origins Laboratory

Jen Pellegrini

Jen Pellegrini For Jordan A. Bynon, Project Manager

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ORIGINS

LABORATORY

CTEH

5120 North Shore Drive

North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: PROJ-054017

Origins Laboratory

F-012207-01-R1

Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: ESE0440

Client: CTEH

Client Project ID: POJ-050417

Checklist Completed by: SMC / NB

Shipped Via: HD

Date/time completed: 5/14/25

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

Airbill #: N/A

Matrix(s) Received: (Check all that apply): Soil/Solid

Water

Other:

(Describe)

Cooler Number/Temperature: 1 6.0 °C

Thermometer ID: T-007

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽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"/>		Sample IDs not on sample 3 vials
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 analyses 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, ZnAc+NaOH)	<input checked="" type="checkbox"/>			NC
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 taken in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) NB

Date/Time Reviewed 5/14/25

Origins Laboratory

Jen Pellegrini For Jordan A. Bynon, Project Manager

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5120 North Shore Drive

North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: PROJ-054017

GACO0513T066S002

5/13/2025 8:50:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0440-01 (Soil) Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	1.12		0.101	mg/L	1	B5E1409	05/14/2025	05/16/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND		0.258	mg/kg	1	B5E1437	05/14/2025	06/02/2025	U
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E1430	05/14/2025	05/15/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	87.1 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E1423	05/14/2025	05/14/2025	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

Origins Laboratory

Jen Pellegrini For Jordan A. Bynon, Project Manager

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5/13/2025 8:50:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0440-01 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	112 %		70-130	B5E1423	05/14/2025	05/14/2025
Surrogate: Toluene-d8	96.5 %		70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	103 %		70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	4.00	0.499	meq/L	10	[CALC]	05/14/2025	05/15/2025
Magnesium	2.03	0.823	"	"	"	"	"
Sodium	0.889	0.435	"	"	"	"	"

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND	0.002	mg/kg	1	B5E1447	05/14/2025	05/14/2025	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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Project Number: PROJ-054017

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GACO0513T066S002

5/13/2025 8:50:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0440-01 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Fluoranthene	ND	0.020	mg/kg	1	B5E1447	05/14/2025	05/14/2025	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	102 %	60-130	"	"	"
Surrogate: Anthracene-d10	94.3 %	60-130	"	"	"
Surrogate: Pyrene-d10	95.0 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	101 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.25	pH Units	1	B5E1415	05/14/2025	05/15/2025
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SAR by 20B Saturated Paste

SAR	0.512	0.0100	SAR	1	B5E1404	05/14/2025	05/15/2025
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.875	0.00500	mmhos/cm	1	B5E1415	05/14/2025	05/15/2025
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Table 915 metals by EPA 6020B

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GACO0513T066S002

5/13/2025 8:50:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0440-01 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	8.04	0.251	mg/kg	10	B5E1443	05/14/2025	05/15/2025	
Barium	105	71.0	"	"	"	"	"	
Cadmium	0.427	0.329	"	"	"	"	"	
Copper	ND	39.8	"	"	"	"	"	U
Lead	15.1	12.1	"	"	"	"	"	
Nickel	ND	22.5	"	"	"	"	"	U
Selenium	0.537	0.225	"	"	"	"	"	
Silver	ND	0.692	"	"	"	"	"	U
Zinc	ND	320	"	"	"	"	"	U

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GACO0513T066C002

5/13/2025 8:50:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0440-02 (Soil) Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.955		0.101	mg/L	1	B5E1409	05/14/2025	05/16/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND		0.257	mg/kg	1	B5E1437	05/14/2025	06/02/2025	U
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E1430	05/14/2025	05/15/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	59.5 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E1423	05/14/2025	05/14/2025	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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Project Number: PROJ-054017

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GACO0513T066C002

5/13/2025 8:50:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0440-02 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	109 %		70-130	B5E1423	05/14/2025	05/14/2025
Surrogate: Toluene-d8	97.0 %		70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	100 %		70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	3.54	0.499	meq/L	10	[CALC]	05/14/2025	05/15/2025
Magnesium	1.77	0.823	"	"	"	"	"
Sodium	0.718	0.435	"	"	"	"	"

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND	0.002	mg/kg	1	B5E1447	05/14/2025	05/14/2025	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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Jen Pellegrini For Jordan A. Bynon, Project Manager



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5120 North Shore Drive

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Project Number: PROJ-054017

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GACO0513T066C002

5/13/2025 8:50:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0440-02 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Fluoranthene	ND	0.020	mg/kg	1	B5E1447	05/14/2025	05/14/2025	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	101 %	60-130	"	"	"
Surrogate: Anthracene-d10	92.8 %	60-130	"	"	"
Surrogate: Pyrene-d10	96.1 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	101 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.21	pH Units	1	B5E1415	05/14/2025	05/15/2025
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SAR by 20B Saturated Paste

SAR	0.441	0.0100	SAR	1	B5E1404	05/14/2025	05/15/2025
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.759	0.00500	mmhos/cm	1	B5E1415	05/14/2025	05/15/2025
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Table 915 metals by EPA 6020B

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Project Number: PROJ-054017

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GACO0513T066C002

5/13/2025 8:50:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0440-02 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	25.6	0.261	mg/kg	10	B5E1443	05/14/2025	05/15/2025	
Barium	125	73.9	"	"	"	"	"	
Cadmium	0.685	0.342	"	"	"	"	"	
Copper	ND	41.4	"	"	"	"	"	U
Lead	19.0	12.6	"	"	"	"	"	
Nickel	ND	23.4	"	"	"	"	"	U
Selenium	1.06	0.234	"	"	"	"	"	
Silver	ND	0.721	"	"	"	"	"	U
Zinc	ND	333	"	"	"	"	"	U

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Project Number: PROJ-054017

Project: PROJ-054017

GACO0513T066T002

5/13/2025 7:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0440-03 (Water) Origins Laboratory									
VOC by EPA 8260D									
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L	1	B5E1427	05/14/2025	05/14/2025	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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Project Number: PROJ-054017

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GACO0513T066T002

5/13/2025 7:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0440-03 (Water) Origins Laboratory									
VOC by EPA 8260D									
1,4-Dichlorobenzene	ND		1.00	ug/L	1	B5E1427	05/14/2025	05/14/2025	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

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

GACO0513T066T002

5/13/2025 7:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0440-03 (Water) Origins Laboratory									
VOC by EPA 8260D									
Chloroform	ND		1.00	ug/L	1	B5E1427	05/14/2025	05/14/2025	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

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

GACO0513T066T002

5/13/2025 7:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0440-03 (Water) Origins Laboratory									
VOC by EPA 8260D									
tert-Butylbenzene	ND		1.00	ug/L	1	B5E1427	05/14/2025	05/14/2025	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	104 %			70-130		"	"	"	
Surrogate: Toluene-d8	96.2 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	104 %			70-130		"	"	"	

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Jen Pellegrini For Jordan A. Bynon, Project Manager



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5120 North Shore Drive

North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: PROJ-054017

*** DEFAULT GENERAL METHOD *** - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B5E1437 - EPA 3060A										
Blank (B5E1437-BLK1)					Prepared: 05/14/2025 Analyzed: 06/02/2025					
Hexavalent Chromium	ND	0.250	mg/kg							U
LCS (B5E1437-BS1)					Prepared: 05/14/2025 Analyzed: 06/02/2025					
Hexavalent Chromium	2.35	0.250	mg/kg	2.50		93.8	80-120			
Matrix Spike (B5E1437-MS1)					Source: E5E0444-07 Prepared: 05/14/2025 Analyzed: 06/02/2025					
Hexavalent Chromium	1.21	0.238	mg/kg	2.38	ND	50.8	75-125			QM-14
Matrix Spike (B5E1437-MS2)					Source: E5E0444-07 Prepared: 05/14/2025 Analyzed: 06/02/2025					
Hexavalent Chromium	3.85	0.257	mg/kg	266	ND	1.45	75-125			
Matrix Spike Dup (B5E1437-MSD1)					Source: E5E0444-07 Prepared: 05/14/2025 Analyzed: 06/02/2025					
Hexavalent Chromium	1.22	0.258	mg/kg	2.58	ND	47.3	75-125	0.815	200	
Post Spike (B5E1437-PS1)					Source: E5E0444-07 Prepared: 05/14/2025 Analyzed: 06/02/2025					
Hexavalent Chromium	56.1		ug/L	50.0	0.692	111	80-120			

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

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 B5E1404 - Saturated Paste Metals**Blank (B5E1404-BLK1)**

Prepared: 05/14/2025 Analyzed: 05/15/2025

Calcium PPM	ND	10.0	mg/L							U
SAR	ND	0.0100	SAR							U
Magnesium PPM	ND	10.0	mg/L							U
Sodium PPM	ND	10.0	"							U

Duplicate (B5E1404-DUP1)**Source: E5E0244-01**

Prepared: 05/14/2025 Analyzed: 05/15/2025

SAR	ND	0.0100	SAR	0.427				200		U
Calcium PPM	17.3	10.0	mg/L	15.9			8.80	50		
Magnesium PPM	5.12	10.0	"	5.01			2.17	50		U
Sodium PPM	7.65	10.0	"	7.61			0.524	50		U

Batch B5E1409 - DTPA Sorbitol Preparation**Blank (B5E1409-BLK1)**

Prepared: 05/14/2025 Analyzed: 05/16/2025

Boron	ND	0.100	mg/L							U
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Duplicate (B5E1409-DUP1)**Source: E5E0403-01**

Prepared: 05/14/2025 Analyzed: 05/16/2025

Boron	1.04	0.101	mg/L	1.05			1.04	50		
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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 B5E1447 - EPA 3580**Blank (B5E1447-BLK1)**

Prepared: 05/14/2025 Analyzed: 05/14/2025

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		102	60-130			
Surrogate: Anthracene-d10	190		"	200		94.8	60-130			
Surrogate: Pyrene-d10	190		"	200		93.0	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

LCS (B5E1447-BS1)

Prepared: 05/14/2025 Analyzed: 05/14/2025

1-Methylnaphthalene	0.175	0.002	mg/kg	0.200		87.5	70-130
2-Methylnaphthalene	0.172	0.002	"	0.200		85.8	70-130
Acenaphthene	0.190	0.020	"	0.200		95.2	70-130
Anthracene	0.206	0.020	"	0.200		103	70-130

Origins Laboratory

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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 B5E1447 - EPA 3580**LCS (B5E1447-BS1)**

Prepared: 05/14/2025 Analyzed: 05/14/2025

Benzo (a) anthracene	0.213	0.005	mg/kg	0.200		107	70-130
Benzo (a) pyrene	0.205	0.020	"	0.200		102	70-130
Benzo (b) fluoranthene	0.215	0.020	"	0.200		108	70-130
Benzo (g,h,i) perylene	0.191	0.020	"	0.200		95.7	70-130
Benzo (k) fluoranthene	0.211	0.020	"	0.200		105	70-130
Chrysene	0.199	0.020	"	0.200		99.4	70-130
Dibenz (a,h) anthracene	0.227	0.020	"	0.200		114	70-130
Fluoranthene	0.188	0.020	"	0.200		94.1	70-130
Fluorene	0.187	0.020	"	0.200		93.7	70-130
Indeno (1,2,3-cd) pyrene	0.206	0.020	"	0.200		103	70-130
Naphthalene	0.188	0.002	"	0.200		94.1	70-130
Phenanthrene	0.192	0.020	"	0.200		95.9	70-130
Pyrene	0.185	0.020	"	0.200		92.3	70-130
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130
Surrogate: Anthracene-d10	190		"	200		94.7	60-130
Surrogate: Pyrene-d10	180		"	200		91.5	60-130
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130

Matrix Spike (B5E1447-MS1)**Source: E5E0444-07**

Prepared: 05/14/2025 Analyzed: 05/14/2025

1-Methylnaphthalene	0.178	0.002	mg/kg	0.200	ND	89.0	70-130
2-Methylnaphthalene	0.180	0.002	"	0.200	ND	90.2	70-130
Acenaphthene	0.194	0.020	"	0.200	0.0007	96.7	70-130
Anthracene	0.176	0.020	"	0.200	ND	87.8	70-130
Benzo (a) anthracene	0.219	0.005	"	0.200	0.001	109	70-130
Benzo (a) pyrene	0.210	0.020	"	0.200	0.002	104	70-130
Benzo (b) fluoranthene	0.215	0.020	"	0.200	0.002	107	70-130
Benzo (g,h,i) perylene	0.180	0.020	"	0.200	0.001	89.3	70-130

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

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 B5E1447 - EPA 3580**Matrix Spike (B5E1447-MS1)****Source: E5E0444-07**

Prepared: 05/14/2025 Analyzed: 05/14/2025

Benzo (k) fluoranthene	0.212	0.020	mg/kg	0.200	0.001	105	70-130			
Chrysene	0.201	0.020	"	0.200	0.002	99.4	70-130			
Dibenz (a,h) anthracene	0.219	0.020	"	0.200	0.0006	109	70-130			
Fluoranthene	0.198	0.020	"	0.200	0.004	97.0	70-130			
Fluorene	0.191	0.020	"	0.200	ND	95.3	70-130			
Indeno (1,2,3-cd) pyrene	0.201	0.020	"	0.200	0.002	99.2	70-130			
Naphthalene	0.192	0.002	"	0.200	0.002	95.1	70-130			
Phenanthrene	0.195	0.020	"	0.200	0.002	96.7	70-130			
Pyrene	0.193	0.020	"	0.200	0.002	95.1	70-130			

Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	180		"	200		90.4	60-130			
Surrogate: Pyrene-d10	190		"	200		93.7	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.9	60-130			

Matrix Spike Dup (B5E1447-MSD1)**Source: E5E0444-07**

Prepared: 05/14/2025 Analyzed: 05/14/2025

1-Methylnaphthalene	0.177	0.002	mg/kg	0.200	ND	88.7	70-130	0.315	20	
2-Methylnaphthalene	0.176	0.002	"	0.200	ND	87.8	70-130	2.72	20	
Acenaphthene	0.195	0.020	"	0.200	0.0007	97.4	70-130	0.724	20	
Anthracene	0.182	0.020	"	0.200	ND	91.2	70-130	3.82	20	
Benzo (a) anthracene	0.227	0.005	"	0.200	0.001	113	70-130	3.34	20	
Benzo (a) pyrene	0.219	0.020	"	0.200	0.002	109	70-130	4.26	20	
Benzo (b) fluoranthene	0.215	0.020	"	0.200	0.002	107	70-130	0.145	20	
Benzo (g,h,i) perylene	0.180	0.020	"	0.200	0.001	89.2	70-130	0.0434	20	
Benzo (k) fluoranthene	0.196	0.020	"	0.200	0.001	97.4	70-130	7.73	20	
Chrysene	0.199	0.020	"	0.200	0.002	98.5	70-130	0.898	20	
Dibenz (a,h) anthracene	0.217	0.020	"	0.200	0.0006	108	70-130	0.777	20	
Fluoranthene	0.198	0.020	"	0.200	0.004	97.1	70-130	0.162	20	

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

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 B5E1447 - EPA 3580

Matrix Spike Dup (B5E1447-MSD1)

Source: E5E0444-07

Prepared: 05/14/2025 Analyzed: 05/14/2025

Fluorene	0.198	0.020	mg/kg	0.200	ND	99.0	70-130	3.79	20	
Indeno (1,2,3-cd) pyrene	0.206	0.020	"	0.200	0.002	102	70-130	2.89	20	
Naphthalene	0.189	0.002	"	0.200	0.002	93.7	70-130	1.51	20	
Phenanthrene	0.197	0.020	"	0.200	0.002	97.7	70-130	1.01	20	
Pyrene	0.197	0.020	"	0.200	0.002	97.3	70-130	2.30	20	
Surrogate: Fluorene-d10	210		ug/kg	200		104	60-130			
Surrogate: Anthracene-d10	190		"	200		93.6	60-130			
Surrogate: Pyrene-d10	190		"	200		95.0	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			

Origins Laboratory

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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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B5E1430 - EPA 3550B										
Blank (B5E1430-BLK1)										
					Prepared: 05/14/2025 Analyzed: 05/14/2025					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	20		"	24.9		81.8	50-150			
LCS (B5E1430-BS1)										
					Prepared: 05/14/2025 Analyzed: 05/14/2025					
Diesel (C10-C28)	981	50.0	mg/kg	1000		98.1	70-130			
Residual Range Organics (C28-C40)	1040	200	"	1000		104	70-130			
Surrogate: o-Terphenyl	53		"	49.8		107	50-150			
Matrix Spike (B5E1430-MS1)										
			Source: E5E0436-01		Prepared: 05/14/2025 Analyzed: 05/14/2025					
Diesel (C10-C28)	1020	50.0	mg/kg	1000	ND	102	70-130			
Residual Range Organics (C28-C40)	1110	200	"	1000	132	97.3	70-130			
Surrogate: o-Terphenyl	53		"	49.8		107	50-150			
Matrix Spike Dup (B5E1430-MSD1)										
			Source: E5E0436-01		Prepared: 05/14/2025 Analyzed: 05/14/2025					
Diesel (C10-C28)	1030	50.0	mg/kg	1000	ND	103	70-130	0.997	35	
Residual Range Organics (C28-C40)	1130	200	"	1000	132	99.8	70-130	2.21	35	
Surrogate: o-Terphenyl	54		"	49.8		108	50-150			

Origins Laboratory

Jen Pellegrini For Jordan A. Bynon, Project Manager

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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 B5E1443 - EPA 3050B

Blank (B5E1443-BLK1)

Prepared: 05/14/2025 Analyzed: 05/15/2025

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 (B5E1443-BS1)

Prepared: 05/14/2025 Analyzed: 05/15/2025

Arsenic	5.99	0.290	mg/kg	5.00		120	80-120			
Barium	552	82.0	"	500		110	80-120			
Cadmium	5.79	0.380	"	5.00		116	80-120			
Copper	59.7	46.0	"	50.0		119	80-120			
Lead	5.68	14.0	"	5.00		114	80-120			U
Nickel	5.97	26.0	"	5.00		119	80-120			U
Selenium	5.78	0.260	"	5.00		116	80-120			
Silver	5.92	0.800	"	5.00		118	80-120			
Zinc	59.3	370	"	50.0		119	80-120			U

Matrix Spike (B5E1443-MS1)

Source: E5E0444-07

Prepared: 05/14/2025 Analyzed: 05/15/2025

Arsenic	9.03	0.252	mg/kg	4.35	4.04	115	75-125			
Barium	528	71.3	"	435	81.2	103	75-125			
Cadmium	4.71	0.330	"	4.35	0.203	104	75-125			
Copper	70.4	40.0	"	43.5	18.6	119	75-125			
Lead	13.7	12.2	"	4.35	8.03	131	75-125			QM-07

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

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 B5E1443 - EPA 3050B

Matrix Spike (B5E1443-MS1)

Source: E5E0444-07

Prepared: 05/14/2025 Analyzed: 05/15/2025

Nickel	14.7	22.6	mg/kg	4.35	8.99	131	75-125			QM-07, U
Selenium	4.61	0.226	"	4.35	0.293	99.4	75-125			
Silver	4.60	0.696	"	4.35	0.0318	105	75-125			
Zinc	92.0	322	"	43.5	44.1	110	75-125			U

Matrix Spike Dup (B5E1443-MSD1)

Source: E5E0444-07

Prepared: 05/14/2025 Analyzed: 05/15/2025

Arsenic	25.0	0.276	mg/kg	4.77	4.04	440	75-125	93.8	20	QM-07, QR-DUP
Barium	560	78.2	"	477	81.2	100	75-125	5.84	20	
Cadmium	5.08	0.362	"	4.77	0.203	102	75-125	7.51	20	
Copper	74.3	43.9	"	47.7	18.6	117	75-125	5.38	20	
Lead	16.6	13.3	"	4.77	8.03	179	75-125	18.6	20	QM-07
Nickel	17.8	24.8	"	4.77	8.99	184	75-125	19.1	20	QM-07, U
Selenium	5.27	0.248	"	4.77	0.293	104	75-125	13.3	20	
Silver	4.76	0.763	"	4.77	0.0318	99.3	75-125	3.59	20	
Zinc	99.9	353	"	47.7	44.1	117	75-125	8.17	20	U

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Jen Pellegrini For Jordan A. Bynon, Project Manager



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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 B5E1415 - Saturated Paste pH/EC

Blank (B5E1415-BLK1)

Prepared: 05/14/2025 Analyzed: 05/15/2025

Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
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Duplicate (B5E1415-DUP1)

Source: E5E0244-01

Prepared: 05/14/2025 Analyzed: 05/15/2025

pH	8.28		pH Units	8.32		0.482	25
Specific Conductance (EC)	0.243	0.00500	mmhos/cm	0.204		17.5	25

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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 B5E1423 - EPA 5030 (soil)**Blank (B5E1423-BLK1)**

Prepared: 05/14/2025 Analyzed: 05/14/2025

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	0.12		"	0.125		99.7	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		100	70-130			

LCS (B5E1423-BS1)

Prepared: 05/14/2025 Analyzed: 05/14/2025

1,2,4-Trimethylbenzene	0.112	0.00200	mg/kg	0.100		112	70-130			
1,3,5-Trimethylbenzene	0.114	0.00200	"	0.100		114	70-130			
Benzene	0.106	0.00200	"	0.100		106	70-130			
Ethylbenzene	0.109	0.00200	"	0.100		109	70-130			
Naphthalene	0.105	0.00380	"	0.100		105	70-130			
Toluene	0.105	0.00200	"	0.100		105	70-130			
o-Xylene	0.106	0.00200	"	0.100		106	70-130			
m,p-Xylene	0.222	0.00400	"	0.200		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		107	70-130			

Matrix Spike (B5E1423-MS1)

Source: E5E0436-01

Prepared: 05/14/2025 Analyzed: 05/14/2025

1,2,4-Trimethylbenzene	0.0984	0.00200	mg/kg	0.100	ND	98.4	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 B5E1423 - EPA 5030 (soil)**Matrix Spike (B5E1423-MS1)****Source: E5E0436-01**

Prepared: 05/14/2025 Analyzed: 05/14/2025

1,3,5-Trimethylbenzene	0.0990	0.00200	mg/kg	0.100	ND	99.0	70-130			
Benzene	0.101	0.00200	"	0.100	ND	101	70-130			
Ethylbenzene	0.0988	0.00200	"	0.100	ND	98.8	70-130			
Naphthalene	0.0815	0.00380	"	0.100	ND	81.5	70-130			
Toluene	0.0981	0.00200	"	0.100	ND	98.1	70-130			
o-Xylene	0.0983	0.00200	"	0.100	ND	98.3	70-130			
m,p-Xylene	0.202	0.00400	"	0.200	ND	101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		109	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		108	70-130			

Matrix Spike Dup (B5E1423-MSD1)**Source: E5E0436-01**

Prepared: 05/14/2025 Analyzed: 05/14/2025

1,2,4-Trimethylbenzene	0.0776	0.00200	mg/kg	0.100	ND	77.6	70-130	23.7	20	QR-02
1,3,5-Trimethylbenzene	0.0776	0.00200	"	0.100	ND	77.6	70-130	24.2	20	QR-02
Benzene	0.0961	0.00200	"	0.100	ND	96.1	70-130	5.38	20	
Ethylbenzene	0.0873	0.00200	"	0.100	ND	87.3	70-130	12.3	20	
Naphthalene	0.0660	0.00380	"	0.100	ND	66.0	70-130	21.1	20	QM-07
Toluene	0.0896	0.00200	"	0.100	ND	89.6	70-130	9.06	20	
o-Xylene	0.0866	0.00200	"	0.100	ND	86.6	70-130	12.7	20	
m,p-Xylene	0.176	0.00400	"	0.200	ND	88.0	70-130	13.6	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		109	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		110	70-130			

Batch B5E1427 - EPA 5030B (Water)**Blank (B5E1427-BLK1)**

Prepared: 05/14/2025 Analyzed: 05/14/2025

1,1,1,2-Tetrachloroethane	ND	1.00	ug/L							U
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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 B5E1427 - EPA 5030B (Water)**Blank (B5E1427-BLK1)**

Prepared: 05/14/2025 Analyzed: 05/14/2025

1,1,1-Trichloroethane	ND	1.00	ug/L							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
4-Methyl-2-pentanone	ND	5.00	"							U

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Project Number: PROJ-054017

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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 B5E1427 - EPA 5030B (Water)**Blank (B5E1427-BLK1)**

Prepared: 05/14/2025 Analyzed: 05/14/2025

Acetone	ND	8.00	ug/L							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
n-Butylbenzene	ND	1.00	"							U

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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 B5E1427 - EPA 5030B (Water)**Blank (B5E1427-BLK1)**

Prepared: 05/14/2025 Analyzed: 05/14/2025

n-Propylbenzene	ND	1.00	ug/L							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	64		"	62.5		103	70-130			
Surrogate: Toluene-d8	60		"	62.5		95.4	70-130			
Surrogate: 4-Bromofluorobenzene	67		"	62.5		106	70-130			

LCS (B5E1427-BS1)

Prepared: 05/14/2025 Analyzed: 05/14/2025

1,1,1,2-Tetrachloroethane	48.9	1.00	ug/L	50.0		97.8	70-130			
1,1,1-Trichloroethane	43.8	1.00	"	50.0		87.6	70-130			
1,1,2,2-Tetrachloroethane	49.2	1.00	"	50.0		98.4	70-130			
1,1,2-Trichloroethane	46.3	1.00	"	50.0		92.6	70-130			
1,1-Dichloroethane	44.0	1.00	"	50.0		88.1	70-130			
1,1-Dichloroethene	39.2	1.00	"	50.0		78.5	70-130			
1,1-Dichloropropene	45.0	1.00	"	50.0		90.0	70-130			
1,2,3-Trichlorobenzene	51.4	5.00	"	50.0		103	70-130			
1,2,3-Trichloropropane	47.3	5.00	"	50.0		94.5	70-130			
1,2,4-Trichlorobenzene	50.7	5.00	"	50.0		101	70-130			

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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 B5E1427 - EPA 5030B (Water)**LCS (B5E1427-BS1)**

Prepared: 05/14/2025 Analyzed: 05/14/2025

1,2,4-Trimethylbenzene	49.6	1.00	ug/L	50.0		99.1	70-130			
1,2-Dibromo-3-chloropropane	46.5	5.00	"	50.0		93.0	70-130			
1,2-Dibromoethane (EDB)	46.3	1.50	"	50.0		92.6	70-130			
1,2-Dichlorobenzene	46.5	1.00	"	50.0		93.0	70-130			
1,2-Dichloroethane	47.6	1.00	"	50.0		95.1	70-130			
1,2-Dichloropropane	44.2	1.00	"	50.0		88.3	70-130			
1,3,5-Trimethylbenzene	49.6	1.00	"	50.0		99.1	70-130			
1,3-Dichlorobenzene	47.4	1.00	"	50.0		94.8	70-130			
1,3-Dichloropropane	45.7	1.00	"	50.0		91.3	70-130			
1,4-Dichlorobenzene	46.4	1.00	"	50.0		92.8	70-130			
2,2-Dichloropropane	42.8	1.00	"	50.0		85.7	70-130			
2-Butanone	217	5.00	"	250		86.9	70-130			
2-Chlorotoluene	48.3	1.00	"	50.0		96.6	70-130			
2-Hexanone	226	6.00	"	250		90.4	70-130			
4-Chlorotoluene	48.7	1.00	"	50.0		97.3	70-130			
4-Isopropyltoluene	49.0	1.00	"	50.0		97.9	70-130			
4-Methyl-2-pentanone	248	5.00	"	250		99.2	70-130			
Acetone	203	8.00	"	250		81.0	70-130			
Benzene	45.2	1.00	"	50.0		90.4	70-130			
Bromobenzene	46.6	1.00	"	50.0		93.2	70-130			
Bromochloromethane	44.5	1.00	"	50.0		89.0	70-130			
Bromodichloromethane	47.4	1.00	"	50.0		94.8	70-130			
Bromoform	48.0	1.00	"	50.0		96.1	70-130			
Bromomethane	41.9	1.00	"	50.0		83.8	70-130			
Carbon disulfide	35.7	5.00	"	50.0		71.5	70-130			
Carbon tetrachloride	44.3	1.00	"	50.0		88.6	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 B5E1427 - EPA 5030B (Water)**LCS (B5E1427-BS1)**

Prepared: 05/14/2025 Analyzed: 05/14/2025

Chlorobenzene	44.9	1.00	ug/L	50.0		89.7	70-130			
Chloroethane	42.2	1.00	"	50.0		84.4	70-130			
Chloroform	48.2	1.00	"	50.0		96.3	70-130			
Chloromethane	38.1	1.00	"	50.0		76.1	70-130			
cis-1,2-Dichloroethene	44.9	1.00	"	50.0		89.9	70-130			
cis-1,3-Dichloropropene	45.0	1.00	"	50.0		90.1	70-130			
Dibromochloromethane	48.1	1.00	"	50.0		96.1	70-130			
Dibromomethane	44.6	1.00	"	50.0		89.2	70-130			
Ethylbenzene	47.2	1.00	"	50.0		94.4	70-130			
Hexachlorobutadiene	49.6	5.00	"	50.0		99.1	70-130			
Iodomethane	38.3	10.0	"	50.0		76.5	70-130			
Isopropylbenzene	48.5	1.00	"	50.0		97.0	70-130			
m,p-Xylene	94.2	2.00	"	100		94.2	70-130			
Methylene Chloride	42.7	15.0	"	50.0		85.3	70-130			
Methyl tert-Butyl Ether	37.6	1.00	"	50.0		75.1	70-130			
Naphthalene	50.1	4.00	"	50.0		100	70-130			
n-Butylbenzene	50.5	1.00	"	50.0		101	70-130			
n-Propylbenzene	49.0	1.00	"	50.0		98.0	70-130			
o-Xylene	48.3	1.00	"	50.0		96.6	70-130			
sec-Butylbenzene	49.0	1.00	"	50.0		98.0	70-130			
Styrene	47.4	1.00	"	50.0		94.9	70-130			
tert-Butylbenzene	48.9	1.00	"	50.0		97.9	70-130			
Tetrachloroethene	46.0	1.00	"	50.0		92.0	70-130			
Toluene	45.6	1.00	"	50.0		91.3	70-130			
trans-1,2-Dichloroethene	42.8	1.00	"	50.0		85.5	70-130			
trans-1,3-Dichloropropene	44.8	1.00	"	50.0		89.5	70-130			

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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 B5E1427 - EPA 5030B (Water)**LCS (B5E1427-BS1)**

Prepared: 05/14/2025 Analyzed: 05/14/2025

Trichloroethene	45.9	1.00	ug/L	50.0		91.8	70-130			
Trichlorofluoromethane	45.4	1.00	"	50.0		90.7	70-130			
Vinyl chloride	40.7	1.00	"	50.0		81.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	70-130			

Matrix Spike (B5E1427-MS1)**Source: E5E0435-01**

Prepared: 05/14/2025 Analyzed: 05/14/2025

1,1,1,2-Tetrachloroethane	47.0	1.00	ug/L	50.0	ND	93.9	70-130			
1,1,1-Trichloroethane	40.7	1.00	"	50.0	ND	81.4	70-130			
1,1,2,2-Tetrachloroethane	46.9	1.00	"	50.0	ND	93.8	70-130			
1,1,2-Trichloroethane	44.8	1.00	"	50.0	ND	89.5	70-130			
1,1-Dichloroethane	39.9	1.00	"	50.0	ND	79.8	70-130			
1,1-Dichloroethene	34.6	1.00	"	50.0	ND	69.1	70-130			QM-07
1,1-Dichloropropene	41.3	1.00	"	50.0	ND	82.6	70-130			
1,2,3-Trichlorobenzene	52.3	5.00	"	50.0	ND	105	70-130			
1,2,3-Trichloropropane	43.5	5.00	"	50.0	ND	86.9	70-130			
1,2,4-Trichlorobenzene	52.7	5.00	"	50.0	ND	105	70-130			
1,2,4-Trimethylbenzene	49.9	1.00	"	50.0	ND	99.9	70-130			
1,2-Dibromo-3-chloropropane	45.6	5.00	"	50.0	ND	91.2	70-130			
1,2-Dibromoethane (EDB)	44.9	1.50	"	50.0	ND	89.9	70-130			
1,2-Dichlorobenzene	46.6	1.00	"	50.0	ND	93.1	70-130			
1,2-Dichloroethane	45.7	1.00	"	50.0	ND	91.4	70-130			
1,2-Dichloropropane	42.1	1.00	"	50.0	ND	84.3	70-130			
1,3,5-Trimethylbenzene	49.9	1.00	"	50.0	ND	99.9	70-130			
1,3-Dichlorobenzene	48.7	1.00	"	50.0	ND	97.4	70-130			
1,3-Dichloropropane	44.6	1.00	"	50.0	ND	89.2	70-130			

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 B5E1427 - EPA 5030B (Water)**Matrix Spike (B5E1427-MS1)****Source: E5E0435-01**

Prepared: 05/14/2025 Analyzed: 05/14/2025

1,4-Dichlorobenzene	47.1	1.00	ug/L	50.0	ND	94.2	70-130
2,2-Dichloropropane	39.7	1.00	"	50.0	ND	79.4	70-130
2-Butanone	210	5.00	"	250	ND	83.8	70-130
2-Chlorotoluene	48.2	1.00	"	50.0	ND	96.5	70-130
2-Hexanone	216	6.00	"	250	ND	86.2	70-130
4-Chlorotoluene	49.5	1.00	"	50.0	ND	99.1	70-130
4-Isopropyltoluene	50.2	1.00	"	50.0	ND	100	70-130
4-Methyl-2-pentanone	224	5.00	"	250	ND	89.5	70-130
Acetone	204	8.00	"	250	ND	81.6	70-130
Benzene	42.3	1.00	"	50.0	ND	84.5	70-130
Bromobenzene	46.8	1.00	"	50.0	ND	93.6	70-130
Bromochloromethane	41.6	1.00	"	50.0	ND	83.3	70-130
Bromodichloromethane	45.8	1.00	"	50.0	ND	91.5	70-130
Bromoform	47.4	1.00	"	50.0	ND	94.9	70-130
Bromomethane	40.6	1.00	"	50.0	ND	81.3	70-130
Carbon disulfide	30.4	5.00	"	50.0	ND	60.7	70-130
Carbon tetrachloride	43.0	1.00	"	50.0	ND	86.1	70-130
Chlorobenzene	44.8	1.00	"	50.0	ND	89.6	70-130
Chloroethane	40.7	1.00	"	50.0	ND	81.5	70-130
Chloroform	43.1	1.00	"	50.0	ND	86.1	70-130
Chloromethane	36.7	1.00	"	50.0	ND	73.4	70-130
cis-1,2-Dichloroethene	41.6	1.00	"	50.0	ND	83.3	70-130
cis-1,3-Dichloropropene	42.9	1.00	"	50.0	ND	85.8	70-130
Dibromochloromethane	46.9	1.00	"	50.0	ND	93.8	70-130
Dibromomethane	42.9	1.00	"	50.0	ND	85.8	70-130
Ethylbenzene	46.7	1.00	"	50.0	ND	93.4	70-130

QM-07

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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 B5E1427 - EPA 5030B (Water)**Matrix Spike (B5E1427-MS1)****Source: E5E0435-01**

Prepared: 05/14/2025 Analyzed: 05/14/2025

Hexachlorobutadiene	53.7	5.00	ug/L	50.0	ND	107	70-130			
Iodomethane	33.9	10.0	"	50.0	ND	67.8	70-130			QM-07
Isopropylbenzene	47.9	1.00	"	50.0	ND	95.7	70-130			
m,p-Xylene	93.4	2.00	"	100	ND	93.4	70-130			
Methylene Chloride	38.6	15.0	"	50.0	ND	77.3	70-130			
Methyl tert-Butyl Ether	33.1	1.00	"	50.0	ND	66.2	70-130			QM-07
Naphthalene	49.4	4.00	"	50.0	ND	98.8	70-130			
n-Butylbenzene	52.7	1.00	"	50.0	ND	105	70-130			
n-Propylbenzene	49.1	1.00	"	50.0	ND	98.3	70-130			
o-Xylene	47.4	1.00	"	50.0	ND	94.8	70-130			
sec-Butylbenzene	50.0	1.00	"	50.0	ND	99.9	70-130			
Styrene	46.9	1.00	"	50.0	ND	93.8	70-130			
tert-Butylbenzene	49.2	1.00	"	50.0	ND	98.4	70-130			
Tetrachloroethene	44.6	1.00	"	50.0	ND	89.2	70-130			
Toluene	43.7	1.00	"	50.0	ND	87.3	70-130			
trans-1,2-Dichloroethene	38.8	1.00	"	50.0	ND	77.5	70-130			
trans-1,3-Dichloropropene	44.4	1.00	"	50.0	ND	88.7	70-130			
Trichloroethene	43.6	1.00	"	50.0	ND	87.2	70-130			
Trichlorofluoromethane	43.8	1.00	"	50.0	ND	87.5	70-130			
Vinyl chloride	39.4	1.00	"	50.0	ND	78.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		102	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	70-130			

Matrix Spike Dup (B5E1427-MSD1)**Source: E5E0435-01**

Prepared: 05/14/2025 Analyzed: 05/14/2025

1,1,1,2-Tetrachloroethane	45.7	1.00	ug/L	50.0	ND	91.5	70-130	2.65	20	
1,1,1-Trichloroethane	38.9	1.00	"	50.0	ND	77.8	70-130	4.57	20	

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Jen Pellegrini For Jordan A. Bynon, Project Manager



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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 B5E1427 - EPA 5030B (Water)

Matrix Spike Dup (B5E1427-MSD1)

Source: E5E0435-01

Prepared: 05/14/2025 Analyzed: 05/14/2025

1,1,2,2-Tetrachloroethane	45.6	1.00	ug/L	50.0	ND	91.2	70-130	2.85	20	
1,1,2-Trichloroethane	42.8	1.00	"	50.0	ND	85.6	70-130	4.41	20	
1,1-Dichloroethane	38.3	1.00	"	50.0	ND	76.6	70-130	4.14	20	
1,1-Dichloroethene	33.6	1.00	"	50.0	ND	67.3	70-130	2.70	20	QM-07
1,1-Dichloropropene	39.1	1.00	"	50.0	ND	78.3	70-130	5.37	20	
1,2,3-Trichlorobenzene	47.5	5.00	"	50.0	ND	95.0	70-130	9.68	20	
1,2,3-Trichloropropane	43.4	5.00	"	50.0	ND	86.7	70-130	0.253	20	
1,2,4-Trichlorobenzene	47.4	5.00	"	50.0	ND	94.8	70-130	10.5	20	
1,2,4-Trimethylbenzene	47.4	1.00	"	50.0	ND	94.8	70-130	5.24	20	
1,2-Dibromo-3-chloropropane	43.5	5.00	"	50.0	ND	87.0	70-130	4.62	20	
1,2-Dibromoethane (EDB)	43.0	1.50	"	50.0	ND	86.1	70-130	4.27	20	
1,2-Dichlorobenzene	43.9	1.00	"	50.0	ND	87.8	70-130	5.91	20	
1,2-Dichloroethane	43.3	1.00	"	50.0	ND	86.6	70-130	5.44	20	
1,2-Dichloropropane	39.9	1.00	"	50.0	ND	79.7	70-130	5.56	20	
1,3,5-Trimethylbenzene	47.2	1.00	"	50.0	ND	94.5	70-130	5.58	20	
1,3-Dichlorobenzene	45.4	1.00	"	50.0	ND	90.7	70-130	7.10	20	
1,3-Dichloropropane	42.3	1.00	"	50.0	ND	84.6	70-130	5.34	20	
1,4-Dichlorobenzene	43.9	1.00	"	50.0	ND	87.9	70-130	6.94	20	
2,2-Dichloropropane	38.1	1.00	"	50.0	ND	76.1	70-130	4.17	20	
2-Butanone	198	5.00	"	250	ND	79.2	70-130	5.62	20	
2-Chlorotoluene	45.7	1.00	"	50.0	ND	91.3	70-130	5.45	20	
2-Hexanone	203	6.00	"	250	ND	81.2	70-130	6.05	20	
4-Chlorotoluene	46.2	1.00	"	50.0	ND	92.3	70-130	7.04	20	
4-Isopropyltoluene	46.9	1.00	"	50.0	ND	93.8	70-130	6.82	20	
4-Methyl-2-pentanone	215	5.00	"	250	ND	86.0	70-130	4.02	20	
Acetone	199	8.00	"	250	ND	79.8	70-130	2.23	20	

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Jen Pellegrini For Jordan A. Bynon, Project Manager



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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 B5E1427 - EPA 5030B (Water)**Matrix Spike Dup (B5E1427-MSD1)****Source: E5E0435-01**

Prepared: 05/14/2025 Analyzed: 05/14/2025

Benzene	39.5	1.00	ug/L	50.0	ND	79.0	70-130	6.78	20	
Bromobenzene	44.7	1.00	"	50.0	ND	89.4	70-130	4.66	20	
Bromochloromethane	39.6	1.00	"	50.0	ND	79.2	70-130	5.10	20	
Bromodichloromethane	43.1	1.00	"	50.0	ND	86.2	70-130	6.03	20	
Bromoform	45.7	1.00	"	50.0	ND	91.4	70-130	3.71	20	
Bromomethane	41.3	1.00	"	50.0	ND	82.5	70-130	1.49	20	
Carbon disulfide	29.3	5.00	"	50.0	ND	58.6	70-130	3.45	20	QM-07
Carbon tetrachloride	40.9	1.00	"	50.0	ND	81.8	70-130	5.10	20	
Chlorobenzene	41.6	1.00	"	50.0	ND	83.3	70-130	7.29	20	
Chloroethane	40.6	1.00	"	50.0	ND	81.3	70-130	0.221	20	
Chloroform	41.0	1.00	"	50.0	ND	81.9	70-130	5.00	20	
Chloromethane	37.2	1.00	"	50.0	ND	74.4	70-130	1.41	20	
cis-1,2-Dichloroethene	39.9	1.00	"	50.0	ND	79.8	70-130	4.32	20	
cis-1,3-Dichloropropene	40.3	1.00	"	50.0	ND	80.6	70-130	6.30	20	
Dibromochloromethane	44.7	1.00	"	50.0	ND	89.4	70-130	4.82	20	
Dibromomethane	41.5	1.00	"	50.0	ND	82.9	70-130	3.39	20	
Ethylbenzene	44.6	1.00	"	50.0	ND	89.2	70-130	4.53	20	
Hexachlorobutadiene	47.8	5.00	"	50.0	ND	95.5	70-130	11.7	20	
Iodomethane	33.1	10.0	"	50.0	ND	66.1	70-130	2.51	20	QM-07
Isopropylbenzene	45.9	1.00	"	50.0	ND	91.7	70-130	4.27	20	
m,p-Xylene	88.9	2.00	"	100	ND	88.9	70-130	4.97	20	
Methylene Chloride	37.4	15.0	"	50.0	ND	74.9	70-130	3.16	20	
Methyl tert-Butyl Ether	32.5	1.00	"	50.0	ND	64.9	70-130	1.86	20	QM-07
Naphthalene	45.4	4.00	"	50.0	ND	90.8	70-130	8.46	20	
n-Butylbenzene	47.8	1.00	"	50.0	ND	95.7	70-130	9.70	20	
n-Propylbenzene	45.9	1.00	"	50.0	ND	91.8	70-130	6.75	20	

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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 B5E1427 - EPA 5030B (Water)**Matrix Spike Dup (B5E1427-MSD1)****Source: E5E0435-01**

Prepared: 05/14/2025 Analyzed: 05/14/2025

o-Xylene	45.4	1.00	ug/L	50.0	ND	90.9	70-130	4.26	20	
sec-Butylbenzene	47.1	1.00	"	50.0	ND	94.2	70-130	5.96	20	
Styrene	45.1	1.00	"	50.0	ND	90.1	70-130	3.98	20	
tert-Butylbenzene	46.6	1.00	"	50.0	ND	93.2	70-130	5.51	20	
Tetrachloroethene	41.6	1.00	"	50.0	ND	83.1	70-130	7.06	20	
Toluene	41.2	1.00	"	50.0	ND	82.4	70-130	5.75	20	
trans-1,2-Dichloroethene	37.4	1.00	"	50.0	ND	74.8	70-130	3.49	20	
trans-1,3-Dichloropropene	41.5	1.00	"	50.0	ND	83.0	70-130	6.66	20	
Trichloroethene	40.9	1.00	"	50.0	ND	81.8	70-130	6.32	20	
Trichlorofluoromethane	43.6	1.00	"	50.0	ND	87.3	70-130	0.275	20	
Vinyl chloride	40.0	1.00	"	50.0	ND	80.1	70-130	1.61	20	
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		105	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-14 The pre-digestion matrix spike recoveries for Cr6 were less than the acceptance range min. The soil sample reduced Cr6 and no measurable native Cr6 existed in the unspiked sample. Batch QC deemed acceptable based on passing LCS recovery.

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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