



CTEH

Kyle Lawrence

5120 North Shore Drive

North Little Rock AR 72118

July 01, 2025

Project Name - PROJ-054017

Project Number - PROJ-054017

Attached are your analytical results for PROJ-054017 received by Origins Laboratory April 23, 2025. This project is associated with Origins project number E5D0661-01.

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
GACO0422BF005	E5D0661-01	Soil	April 22, 2025 14:15	04/23/2025 20:20
GACO0422BF006	E5D0661-02	Soil	April 22, 2025 14:45	04/23/2025 20:20
GACO0422BF007	E5D0661-03	Soil	April 22, 2025 15:10	04/23/2025 20:20
GACO0422BF008	E5D0661-04	Soil	April 22, 2025 15:50	04/23/2025 20:20
GACO0422BF009	E5D0661-05	Soil	April 22, 2025 16:05	04/23/2025 20:20
GACO0422BF010	E5D0661-06	Soil	April 22, 2025 16:35	04/23/2025 20:20
GACO0422BF011	E5D0661-07	Soil	April 22, 2025 17:15	04/23/2025 20:20
GACO0422BFT002	E5D0661-08	Water	April 23, 2025 8:38	04/23/2025 20:20

Chain of Custody Replacement Request

On 7/1/2025, Kate Weinzirl from CTEH contacted Jordan Bynon via email regarding E5D0661 requesting that the sample ID for GACO0422BFT001 be revised to GACO0422BFT002. Requested modifications to the chain of custody were made by Jordan Bynon on 7/1/2025 and modified chain of custody is included in the supplementary report with the original chain of custody.

Origins Laboratory

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

ORIGINS

LABORATORY

CTEH
5120 North Shore Drive
North Little Rock AR 72118

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

Origins Laboratory

Sample Receipt Checklist

F-012207-01-R1
Effective Date: 01/09/12

Origins Work Order: E6D0661

Client: CTEH

Client Project ID: PROJ-054017

Checklist Completed by: KDK / smc

Shipped Via: HD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 4 / 24 / 25

Airbill #: N/A

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☒ Water ☐ Other: _____

Cooler Number/Temperature: 9 , 3.6 °C (Describe)

Thermometer ID: T007

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	<input 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 NaAcO ₂ +NaOH, ZnAc ₂ +NaOH)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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)

04/24/25
Date/Time Reviewed

Origins Laboratory

J. Bynon

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Jordan A. Bynon, Project Manager



CTEH
5120 North Shore Drive
North Little Rock AR 72118

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

GACO0422BF005

4/22/2025 2:15:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0661-01 (Soil) Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	1.96		0.0986	mg/L	1	B5D2424	04/24/2025	04/25/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND		0.248	mg/kg	1	B5D2410	04/24/2025	04/25/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5D2439	04/24/2025	04/24/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	70.2 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5D2351	04/23/2025	04/24/2025	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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Jordan A. Bynon, Project Manager



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GACO0422BF005

4/22/2025 2:15:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0661-01 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	109 %		70-130			B5D2351	04/23/2025	04/24/2025	
Surrogate: Toluene-d8	96.3 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	23.1	0.499	meq/L	10	[CALC]		04/24/2025	04/26/2025	
Magnesium	40.0	0.823	"	"	"	"	"	"	
Sodium	40.5	0.435	"	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND	0.002	mg/kg	1	B5D2353	04/23/2025	04/25/2025	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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4/22/2025 2:15:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0661-01 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Fluoranthene	ND	0.020	mg/kg	1	B5D2353	04/23/2025	04/25/2025	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	99.1 %	60-130	"	"	"
Surrogate: Anthracene-d10	100 %	60-130	"	"	"
Surrogate: Pyrene-d10	101 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	101 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.28	pH Units	1	B5D2422	04/24/2025	04/28/2025
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SAR by 20B Saturated Paste

SAR	7.20	0.0100	SAR	1	B5D2417	04/24/2025	04/26/2025
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	8.64	0.00500	mmhos/cm	1	B5D2422	04/24/2025	04/28/2025
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Table 915 metals by EPA 6020B

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GAC00422BF005

4/22/2025 2:15:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0661-01 (Soil) Origins Laboratory									
Table 915 metals by EPA 6020B									
Arsenic	6.33		0.273	mg/kg	10	B5D2438	04/24/2025	04/24/2025	
Barium	91.4		9.42	"	"	"	"	"	
Cadmium	0.108		0.0942	"	"	"	"	"	
Copper	ND		9.42	"	"	"	"	"	
Lead	10.4		0.942	"	"	"	"	"	
Nickel	10.8		0.942	"	"	"	"	"	
Selenium	0.316		0.245	"	"	"	"	"	
Silver	ND		0.0942	"	"	"	"	"	
Zinc	41.9		34.8	"	"	"	"	"	

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Jordan A. Bynon, Project Manager



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GACO0422BF006

4/22/2025 2:45:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0661-02 (Soil) Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	1.72		0.0990	mg/L	1	B5D2424	04/24/2025	04/25/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND		0.253	mg/kg	1	B5D2410	04/24/2025	04/25/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5D2439	04/24/2025	04/24/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	72.2 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5D2351	04/23/2025	04/24/2025	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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GACO0422BF006

4/22/2025 2:45:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0661-02 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	108 %		70-130			B5D2351	04/23/2025	04/24/2025	
Surrogate: Toluene-d8	97.7 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	17.4	0.499	meq/L	10	[CALC]		04/24/2025	04/26/2025	
Magnesium	41.2	0.823	"	"	"	"	"	"	
Sodium	44.6	0.435	"	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND	0.002	mg/kg	1	B5D2353	04/23/2025	04/25/2025		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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GACO0422BF006

4/22/2025 2:45:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0661-02 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Fluoranthene	ND	0.020	mg/kg	1	B5D2353	04/23/2025	04/25/2025	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	99.6 %	60-130	"	"	"	"	"	"
Surrogate: Anthracene-d10	99.3 %	60-130	"	"	"	"	"	"
Surrogate: Pyrene-d10	101 %	60-130	"	"	"	"	"	"
Surrogate: Benzo (a) pyrene-d12	101 %	60-130	"	"	"	"	"	"

pH in Soil by 9045D

pH	8.31	pH Units	1	B5D2422	04/24/2025	04/28/2025	
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SAR by 20B Saturated Paste

SAR	8.24	0.0100	SAR	1	B5D2417	04/24/2025	04/26/2025
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	8.19	0.00500	mmhos/cm	1	B5D2422	04/24/2025	04/28/2025
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Table 915 metals by EPA 6020B

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GACO0422BF006

4/22/2025 2:45:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0661-02 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	6.26	0.273	mg/kg	10	B5D2438	04/24/2025	04/24/2025
Barium	129	9.41	"	"	"	"	"
Cadmium	ND	0.0941	"	"	"	"	"
Copper	9.68	9.41	"	"	"	"	"
Lead	10.8	0.941	"	"	"	"	"
Nickel	11.4	0.941	"	"	"	"	"
Selenium	0.324	0.245	"	"	"	"	"
Silver	ND	0.0941	"	"	"	"	"
Zinc	46.4	34.8	"	"	"	"	"

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Project Number: PROJ-054017
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GACO0422BF007

4/22/2025 3:10:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0661-03 (Soil) Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	1.65		0.101	mg/L	1	B5D2424	04/24/2025	04/25/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND		0.254	mg/kg	1	B5D2410	04/24/2025	04/25/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5D2439	04/24/2025	04/24/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl									
	70.4 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5D2351	04/23/2025	04/24/2025	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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Jordan A. Bynon, Project Manager



CTEH
5120 North Shore Drive
North Little Rock AR 72118

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

GACO0422BF007

4/22/2025 3:10:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0661-03 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	110 %		70-130			B5D2351	04/23/2025	04/24/2025	
Surrogate: Toluene-d8	96.8 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	18.7	0.499	meq/L	10	[CALC]		04/24/2025	04/26/2025	
Magnesium	35.3	0.823	"	"	"	"	"	"	
Sodium	36.2	0.435	"	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND	0.002	mg/kg	1	B5D2353	04/23/2025	04/25/2025		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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GACO0422BF007

4/22/2025 3:10:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0661-03 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Fluoranthene	ND	0.020	mg/kg	1	B5D2353	04/23/2025	04/25/2025	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	99.4 %	60-130	"	"	"
Surrogate: Anthracene-d10	100 %	60-130	"	"	"
Surrogate: Pyrene-d10	101 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	102 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.37	pH Units	1	B5D2422	04/24/2025	04/28/2025
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SAR by 20B Saturated Paste

SAR	6.98	0.0100	SAR	1	B5D2417	04/24/2025	04/26/2025
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	7.84	0.00500	mmhos/cm	1	B5D2422	04/24/2025	04/28/2025
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Table 915 metals by EPA 6020B

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

GACO0422BF007

4/22/2025 3:10:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0661-03 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	5.98	0.269	mg/kg	10	B5D2438	04/24/2025	04/24/2025
Barium	245	9.27	"	"	"	"	"
Cadmium	0.109	0.0927	"	"	"	"	"
Copper	9.42	9.27	"	"	"	"	"
Lead	9.92	0.927	"	"	"	"	"
Nickel	10.4	0.927	"	"	"	"	"
Selenium	0.263	0.241	"	"	"	"	"
Silver	ND	0.0927	"	"	"	"	"
Zinc	43.0	34.3	"	"	"	"	"

Origins Laboratory

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Jordan A. Bynon, Project Manager



CTEH
5120 North Shore Drive
North Little Rock AR 72118

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

GACO0422BF008

4/22/2025 3:50:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0661-04 (Soil) Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	1.77		0.101	mg/L	1	B5D2424	04/24/2025	04/25/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND		0.247	mg/kg	1	B5D2410	04/24/2025	04/26/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5D2439	04/24/2025	04/24/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl									
	69.8 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5D2351	04/23/2025	04/24/2025	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

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Jordan A. Bynon, Project Manager



CTEH
5120 North Shore Drive
North Little Rock AR 72118

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

GACO0422BF008

4/22/2025 3:50:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0661-04 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	109 %		70-130			B5D2351	04/23/2025	04/24/2025	
Surrogate: Toluene-d8	97.8 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	22.3	0.499	meq/L	10	[CALC]		04/24/2025	04/26/2025	
Magnesium	41.6	0.823	"	"	"	"	"	"	
Sodium	40.8	0.435	"	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND	0.002	mg/kg	1	B5D2353	04/23/2025	04/25/2025		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

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

GACO0422BF008

4/22/2025 3:50:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0661-04 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Fluoranthene	ND	0.020	mg/kg	1	B5D2353	04/23/2025	04/25/2025	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	99.8 %	60-130	"	"	"
Surrogate: Anthracene-d10	98.7 %	60-130	"	"	"
Surrogate: Pyrene-d10	101 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	101 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.36	pH Units	1	B5D2422	04/24/2025	04/28/2025
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SAR by 20B Saturated Paste

SAR	7.21	0.0100	SAR	1	B5D2417	04/24/2025	04/26/2025
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	8.97	0.00500	mmhos/cm	1	B5D2422	04/24/2025	04/28/2025
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Table 915 metals by EPA 6020B

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

GACO0422BF008

4/22/2025 3:50:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0661-04 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	6.89	0.251	mg/kg	10	B5D2438	04/24/2025	04/24/2025
Barium	124	8.66	"	"	"	"	"
Cadmium	0.116	0.0866	"	"	"	"	"
Copper	10.9	8.66	"	"	"	"	"
Lead	12.4	0.866	"	"	"	"	"
Nickel	11.5	0.866	"	"	"	"	"
Selenium	0.356	0.225	"	"	"	"	"
Silver	ND	0.0866	"	"	"	"	"
Zinc	53.9	32.0	"	"	"	"	"

Origins Laboratory

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Jordan A. Bynon, Project Manager



CTEH
5120 North Shore Drive
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Kyle Lawrence
Project Number: PROJ-054017
Project: PROJ-054017

GACO0422BF009

4/22/2025 4:05:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0661-05 (Soil) Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	1.88		0.0999	mg/L	1	B5D2424	04/24/2025	04/25/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND		0.251	mg/kg	1	B5D2410	04/24/2025	04/26/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5D2439	04/24/2025	04/24/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl									
	70.9 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5D2351	04/24/2025	04/24/2025	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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5120 North Shore Drive
North Little Rock AR 72118

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

GACO0422BF009

4/22/2025 4:05:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0661-05 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	109 %		70-130			B5D2351	04/24/2025	04/24/2025	
Surrogate: Toluene-d8	97.7 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	21.4	0.499	meq/L	10	[CALC]	04/24/2025	04/26/2025	
Magnesium	41.4	0.823	"	"	"	"	"	
Sodium	41.1	0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND	0.002	mg/kg	1	B5D2353	04/23/2025	04/25/2025	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

Origins Laboratory

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5120 North Shore Drive
North Little Rock AR 72118

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

GACO0422BF009

4/22/2025 4:05:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0661-05 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Fluoranthene	ND	0.020	mg/kg	1	B5D2353	04/23/2025	04/25/2025	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	99.2 %	60-130	"	"	"
Surrogate: Anthracene-d10	100 %	60-130	"	"	"
Surrogate: Pyrene-d10	101 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	101 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.31	pH Units	1	B5D2422	04/24/2025	04/28/2025
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SAR by 20B Saturated Paste

SAR	7.34	0.0100	SAR	1	B5D2417	04/24/2025	04/26/2025
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	8.60	0.00500	mmhos/cm	1	B5D2422	04/24/2025	04/28/2025
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Table 915 metals by EPA 6020B

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5120 North Shore Drive
North Little Rock AR 72118

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

GACO0422BF009

4/22/2025 4:05:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0661-05 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	7.34	0.249	mg/kg	10	B5D2438	04/24/2025	04/24/2025
Barium	91.8	8.60	"	"	"	"	"
Cadmium	0.123	0.0860	"	"	"	"	"
Copper	10.2	8.60	"	"	"	"	"
Lead	10.6	0.860	"	"	"	"	"
Nickel	11.0	0.860	"	"	"	"	"
Selenium	0.304	0.224	"	"	"	"	"
Silver	ND	0.0860	"	"	"	"	"
Zinc	48.7	31.8	"	"	"	"	"

Origins Laboratory

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Jordan A. Bynon, Project Manager



CTEH
5120 North Shore Drive
North Little Rock AR 72118

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

GACO0422BF010

4/22/2025 4:35:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0661-06 (Soil) Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	1.70		0.0997	mg/L	1	B5D2424	04/24/2025	04/25/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND		0.258	mg/kg	1	B5D2410	04/24/2025	04/26/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5D2439	04/24/2025	04/24/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl									
	69.5 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5D2351	04/24/2025	04/24/2025	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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5120 North Shore Drive
North Little Rock AR 72118

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

GACO0422BF010

4/22/2025 4:35:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0661-06 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	111 %		70-130			B5D2351	04/24/2025	04/24/2025	
Surrogate: Toluene-d8	97.2 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	21.2	0.499	meq/L	10	[CALC]	04/24/2025	04/26/2025	
Magnesium	42.1	0.823	"	"	"	"	"	
Sodium	42.0	0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND	0.002	mg/kg	1	B5D2353	04/23/2025	04/25/2025	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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5120 North Shore Drive
North Little Rock AR 72118

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

GACO0422BF010

4/22/2025 4:35:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0661-06 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Fluoranthene	ND	0.020	mg/kg	1	B5D2353	04/23/2025	04/25/2025	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	99.0 %	60-130	"	"	"
Surrogate: Anthracene-d10	100 %	60-130	"	"	"
Surrogate: Pyrene-d10	101 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	101 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.35	pH Units	1	B5D2422	04/24/2025	04/28/2025
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SAR by 20B Saturated Paste

SAR	7.47	0.0100	SAR	1	B5D2417	04/24/2025	04/26/2025
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	8.12	0.00500	mmhos/cm	1	B5D2422	04/24/2025	04/28/2025
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Table 915 metals by EPA 6020B

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5120 North Shore Drive
North Little Rock AR 72118

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

GACO0422BF010

4/22/2025 4:35:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0661-06 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	6.70	0.251	mg/kg	10	B5D2438	04/24/2025	04/24/2025
Barium	122	8.66	"	"	"	"	"
Cadmium	0.121	0.0866	"	"	"	"	"
Copper	9.25	8.66	"	"	"	"	"
Lead	10.4	0.866	"	"	"	"	"
Nickel	11.0	0.866	"	"	"	"	"
Selenium	0.284	0.225	"	"	"	"	"
Silver	ND	0.0866	"	"	"	"	"
Zinc	44.2	32.0	"	"	"	"	"

Origins Laboratory

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Jordan A. Bynon, Project Manager



CTEH
5120 North Shore Drive
North Little Rock AR 72118

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

GACO0422BF011

4/22/2025 5:15:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0661-07 (Soil) Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	1.68		0.0988	mg/L	1	B5D2424	04/24/2025	04/25/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND		0.248	mg/kg	1	B5D2410	04/24/2025	04/26/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5D2439	04/24/2025	04/24/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl									
	67.5 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5D2351	04/24/2025	04/24/2025	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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5120 North Shore Drive
North Little Rock AR 72118

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

GACO0422BF011

4/22/2025 5:15:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0661-07 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	111 %		70-130			B5D2351	04/24/2025	04/24/2025	
Surrogate: Toluene-d8	97.8 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	18.5	0.499	meq/L	10	[CALC]	04/24/2025	04/26/2025	
Magnesium	37.8	0.823	"	"	"	"	"	
Sodium	41.1	0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND	0.002	mg/kg	1	B5D2353	04/23/2025	04/25/2025	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: PROJ-054017

GACO0422BF011

4/22/2025 5:15:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0661-07 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Fluoranthene	ND	0.020	mg/kg	1	B5D2353	04/23/2025	04/25/2025	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	99.3 %	60-130	"	"	"
Surrogate: Anthracene-d10	100 %	60-130	"	"	"
Surrogate: Pyrene-d10	102 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	102 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.37	pH Units	1	B5D2422	04/24/2025	04/28/2025
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SAR by 20B Saturated Paste

SAR	7.74	0.0100	SAR	1	B5D2417	04/24/2025	04/26/2025
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	7.89	0.00500	mmhos/cm	1	B5D2422	04/24/2025	04/28/2025
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Table 915 metals by EPA 6020B

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GACO0422BF011

4/22/2025 5:15:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0661-07 (Soil) Origins Laboratory									
Table 915 metals by EPA 6020B									
Arsenic	7.20		0.258	mg/kg	10	B5D2438	04/24/2025	04/24/2025	
Barium	81.9		8.90	"	"	"	"	"	
Cadmium	ND		0.0890	"	"	"	"	"	
Copper	11.2		8.90	"	"	"	"	"	
Lead	12.5		0.890	"	"	"	"	"	
Nickel	12.6		0.890	"	"	"	"	"	
Selenium	0.381		0.231	"	"	"	"	"	
Silver	ND		0.0890	"	"	"	"	"	
Zinc	55.0		32.9	"	"	"	"	"	

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Project: PROJ-054017

GACO0422BFT002
4/23/2025 8:38:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0661-08 (Water) Origins Laboratory									
VOC by EPA 8260D									
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L	1	B5D2462	04/24/2025	04/25/2025	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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GACO0422BFT002
4/23/2025 8:38:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0661-08 (Water) Origins Laboratory									
VOC by EPA 8260D									
1,4-Dichlorobenzene	ND		1.00	ug/L	1	B5D2462	04/24/2025	04/25/2025	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: PROJ-054017

GACO0422BFT002

4/23/2025 8:38:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0661-08 (Water) Origins Laboratory									
VOC by EPA 8260D									
Chloroform	ND		1.00	ug/L	1	B5D2462	04/24/2025	04/25/2025	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
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
sec-Butylbenzene	ND		1.00	"	"	"	"	"	U
Styrene	ND		1.00	"	"	"	"	"	U
tert-Butylbenzene	ND		1.00	"	"	"	"	"	U
Tetrachloroethene	ND		1.00	"	"	"	"	"	U

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Project: PROJ-054017

GACO0422BFT002

4/23/2025 8:38:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0661-08 (Water)
Origins Laboratory

VOC by EPA 8260D

Toluene	ND	1.00	ug/L	1	B5D2462	04/24/2025	04/25/2025	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
o-Xylene	ND	1.00	"	"	"	"	"	U
m,p-Xylene	ND	2.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130	"	"	"
Surrogate: Toluene-d8	99.3 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	80.8 %	70-130	"	"	"

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Jordan A. Bynon, Project Manager



CTEH
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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 B5D2410 - EPA 3060A										
Blank (B5D2410-BLK1)					Prepared: 04/24/2025 Analyzed: 04/25/2025					
Hexavalent Chromium	ND	0.250	mg/kg							
LCS (B5D2410-BS1)					Prepared: 04/24/2025 Analyzed: 04/25/2025					
Hexavalent Chromium	2.60	0.250	mg/kg	2.50		104	80-120			
Matrix Spike (B5D2410-MS1)					Source: E5D0658-10 Prepared: 04/24/2025 Analyzed: 04/25/2025					
Hexavalent Chromium	1.89	0.245	mg/kg	2.45	ND	77.1	75-125			
Matrix Spike (B5D2410-MS2)					Source: E5D0658-10 Prepared: 04/24/2025 Analyzed: 04/25/2025					
Hexavalent Chromium	234	25.4	mg/kg	257	ND	91.3	75-125			
Matrix Spike Dup (B5D2410-MSD1)					Source: E5D0658-10 Prepared: 04/24/2025 Analyzed: 04/25/2025					
Hexavalent Chromium	2.14	0.246	mg/kg	2.46	ND	87.2	75-125	12.4	200	
Post Spike (B5D2410-PS1)					Source: E5D0658-10 Prepared: 04/24/2025 Analyzed: 04/29/2025					
Hexavalent Chromium	50.9		ug/L	50.0	0.00	102	80-120			

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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 B5D2417 - Saturated Paste Metals

Blank (B5D2417-BLK1)

Prepared: 04/24/2025 Analyzed: 04/26/2025

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

Duplicate (B5D2417-DUP1)

Source: E5D0658-09

Prepared: 04/24/2025 Analyzed: 04/26/2025

SAR	ND	0.0100	SAR	0.356	200
Calcium PPM	71.6	10.0	mg/L	78.2	50
Magnesium PPM	15.5	10.0	"	17.3	50
Sodium PPM	13.2	10.0	"	13.4	50

Batch B5D2424 - DTPA Sorbitol Preparation

Blank (B5D2424-BLK1)

Prepared: 04/24/2025 Analyzed: 04/25/2025

Boron	ND	0.100	mg/L
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Duplicate (B5D2424-DUP1)

Source: E5D0648-03

Prepared: 04/24/2025 Analyzed: 04/25/2025

Boron	0.453	0.0997	mg/L	0.457	0.921	50
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Jordan A. Bynon, Project Manager



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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5D2353 - EPA 3580

Blank (B5D2353-BLK1)

Prepared: 04/23/2025 Analyzed: 04/25/2025

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	200		ug/kg	200		98.8	60-130			
Surrogate: Anthracene-d10	200		"	200		99.3	60-130			
Surrogate: Pyrene-d10	200		"	200		101	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130			

LCS (B5D2353-BS1)

Prepared: 04/23/2025 Analyzed: 04/25/2025

1-Methylnaphthalene	0.199	0.002	mg/kg	0.200		99.3	70-130			
2-Methylnaphthalene	0.197	0.002	"	0.200		98.5	70-130			
Acenaphthene	0.195	0.020	"	0.200		97.6	70-130			
Anthracene	0.197	0.020	"	0.200		98.4	70-130			

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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 B5D2353 - EPA 3580

LCS (B5D2353-BS1)

Prepared: 04/23/2025 Analyzed: 04/25/2025

Benzo (a) anthracene	0.209	0.005	mg/kg	0.200		105	70-130			
Benzo (a) pyrene	0.201	0.020	"	0.200		101	70-130			
Benzo (b) fluoranthene	0.208	0.020	"	0.200		104	70-130			
Benzo (g,h,i) perylene	0.207	0.020	"	0.200		103	70-130			
Benzo (k) fluoranthene	0.206	0.020	"	0.200		103	70-130			
Chrysene	0.204	0.020	"	0.200		102	70-130			
Dibenz (a,h) anthracene	0.204	0.020	"	0.200		102	70-130			
Fluoranthene	0.206	0.020	"	0.200		103	70-130			
Fluorene	0.194	0.020	"	0.200		97.1	70-130			
Indeno (1,2,3-cd) pyrene	0.209	0.020	"	0.200		104	70-130			
Naphthalene	0.204	0.002	"	0.200		102	70-130			
Phenanthrene	0.201	0.020	"	0.200		101	70-130			
Pyrene	0.205	0.020	"	0.200		103	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		99.4	60-130			
Surrogate: Anthracene-d10	200		"	200		98.8	60-130			
Surrogate: Pyrene-d10	200		"	200		101	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

Matrix Spike (B5D2353-MS1)

Source: E5D0661-01

Prepared: 04/23/2025 Analyzed: 04/25/2025

1-Methylnaphthalene	0.196	0.002	mg/kg	0.200	ND	98.2	70-130			
2-Methylnaphthalene	0.198	0.002	"	0.200	ND	98.8	70-130			
Acenaphthene	0.190	0.020	"	0.200	0.0008	94.6	70-130			
Anthracene	0.198	0.020	"	0.200	0.0005	98.6	70-130			
Benzo (a) anthracene	0.201	0.005	"	0.200	0.002	99.7	70-130			
Benzo (a) pyrene	0.200	0.020	"	0.200	0.0004	99.8	70-130			
Benzo (b) fluoranthene	0.204	0.020	"	0.200	ND	102	70-130			
Benzo (g,h,i) perylene	0.206	0.020	"	0.200	ND	103	70-130			

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5D2353 - EPA 3580

Matrix Spike (B5D2353-MS1)				Source: E5D0661-01		Prepared: 04/23/2025 Analyzed: 04/25/2025				
Benzo (k) fluoranthene	0.207	0.020	mg/kg	0.200	ND	103	70-130			
Chrysene	0.206	0.020	"	0.200	0.0003	103	70-130			
Dibenz (a,h) anthracene	0.203	0.020	"	0.200	0.0006	101	70-130			
Fluoranthene	0.206	0.020	"	0.200	ND	103	70-130			
Fluorene	0.194	0.020	"	0.200	0.0005	97.0	70-130			
Indeno (1,2,3-cd) pyrene	0.212	0.020	"	0.200	ND	106	70-130			
Naphthalene	0.208	0.002	"	0.200	ND	104	70-130			
Phenanthrene	0.201	0.020	"	0.200	ND	100	70-130			
Pyrene	0.204	0.020	"	0.200	ND	102	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		99.1	60-130			
Surrogate: Anthracene-d10	200		"	200		99.1	60-130			
Surrogate: Pyrene-d10	200		"	200		100	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130			

Matrix Spike Dup (B5D2353-MSD1)				Source: E5D0661-01		Prepared: 04/23/2025 Analyzed: 04/25/2025				
1-Methylnaphthalene	0.197	0.002	mg/kg	0.200	ND	98.4	70-130	0.193	20	
2-Methylnaphthalene	0.196	0.002	"	0.200	ND	98.2	70-130	0.656	20	
Acenaphthene	0.188	0.020	"	0.200	0.0008	93.8	70-130	0.908	20	
Anthracene	0.195	0.020	"	0.200	0.0005	97.2	70-130	1.41	20	
Benzo (a) anthracene	0.198	0.005	"	0.200	0.002	98.1	70-130	1.60	20	
Benzo (a) pyrene	0.200	0.020	"	0.200	0.0004	99.9	70-130	0.114	20	
Benzo (b) fluoranthene	0.207	0.020	"	0.200	ND	103	70-130	1.42	20	
Benzo (g,h,i) perylene	0.206	0.020	"	0.200	ND	103	70-130	0.0408	20	
Benzo (k) fluoranthene	0.205	0.020	"	0.200	ND	103	70-130	0.634	20	
Chrysene	0.203	0.020	"	0.200	0.0003	101	70-130	1.63	20	
Dibenz (a,h) anthracene	0.202	0.020	"	0.200	0.0006	101	70-130	0.355	20	
Fluoranthene	0.203	0.020	"	0.200	ND	102	70-130	0.997	20	

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5D2353 - EPA 3580

Matrix Spike Dup (B5D2353-MSD1)				Source: E5D0661-01		Prepared: 04/23/2025 Analyzed: 04/25/2025				
Fluorene	0.192	0.020	mg/kg	0.200	0.0005	96.0	70-130	1.05	20	
Indeno (1,2,3-cd) pyrene	0.200	0.020	"	0.200	ND	100	70-130	5.53	20	
Naphthalene	0.200	0.002	"	0.200	ND	99.8	70-130	4.01	20	
Phenanthrene	0.199	0.020	"	0.200	ND	99.4	70-130	1.04	20	
Pyrene	0.202	0.020	"	0.200	ND	101	70-130	0.946	20	
Surrogate: Fluorene-d10	200		ug/kg	200		99.0	60-130			
Surrogate: Anthracene-d10	200		"	200		99.4	60-130			
Surrogate: Pyrene-d10	200		"	200		101	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

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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 B5D2439 - EPA 3550B										
Blank (B5D2439-BLK1)										
					Prepared: 04/24/2025 Analyzed: 04/24/2025					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	19		"	24.9		78.0	50-150			
LCS (B5D2439-BS1)										
					Prepared: 04/24/2025 Analyzed: 04/24/2025					
Diesel (C10-C28)	966	50.0	mg/kg	1000		96.6	70-130			
Residual Range Organics (C28-C40)	899	200	"	1000		89.9	70-130			
Surrogate: o-Terphenyl	51		"	49.8		103	50-150			
Matrix Spike (B5D2439-MS1)										
			Source: E5D0661-01		Prepared: 04/24/2025 Analyzed: 04/24/2025					
Diesel (C10-C28)	945	50.0	mg/kg	1000	ND	94.5	70-130			
Residual Range Organics (C28-C40)	890	200	"	1000	ND	89.0	70-130			
Surrogate: o-Terphenyl	47		"	49.8		95.3	50-150			
Matrix Spike Dup (B5D2439-MSD1)										
			Source: E5D0661-01		Prepared: 04/24/2025 Analyzed: 04/24/2025					
Diesel (C10-C28)	954	50.0	mg/kg	1000	ND	95.4	70-130	0.917	35	
Residual Range Organics (C28-C40)	891	200	"	1000	ND	89.1	70-130	0.122	35	
Surrogate: o-Terphenyl	37		"	49.8		74.3	50-150			

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Kyle Lawrence
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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 B5D2438 - EPA 3050B

Blank (B5D2438-BLK1)

Prepared: 04/24/2025 Analyzed: 04/24/2025

Arsenic	ND	0.290	mg/kg
Barium	ND	10.0	"
Cadmium	ND	0.100	"
Copper	ND	10.0	"
Lead	ND	1.00	"
Nickel	ND	1.00	"
Selenium	ND	0.260	"
Silver	ND	0.100	"
Zinc	ND	37.0	"

LCS (B5D2438-BS1)

Prepared: 04/24/2025 Analyzed: 04/24/2025

Arsenic	5.45	0.290	mg/kg	5.00	109	80-120
Barium	545	10.0	"	500	109	80-120
Cadmium	5.60	0.100	"	5.00	112	80-120
Copper	55.7	10.0	"	50.0	111	80-120
Lead	5.62	1.00	"	5.00	112	80-120
Nickel	5.51	1.00	"	5.00	110	80-120
Selenium	5.13	0.260	"	5.00	103	80-120
Silver	4.82	0.100	"	5.00	96.5	80-120
Zinc	55.3	37.0	"	50.0	111	80-120

Matrix Spike (B5D2438-MS1)

Source: E5D0661-06

Prepared: 04/24/2025 Analyzed: 04/24/2025

Arsenic	13.5	0.273	mg/kg	4.71	6.70	144	75-125	QM-07
Barium	606	9.42	"	471	122	103	75-125	
Cadmium	5.44	0.0942	"	4.71	0.121	113	75-125	
Copper	62.2	9.42	"	47.1	9.25	112	75-125	
Lead	17.4	0.942	"	4.71	10.4	148	75-125	QM-07

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Metals by EPA 6000/7000 Series Methods - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5D2438 - EPA 3050B

Matrix Spike (B5D2438-MS1)				Source: E5D0661-06		Prepared: 04/24/2025 Analyzed: 04/24/2025				
Nickel	16.2	0.942	mg/kg	4.71	11.0	110	75-125			
Selenium	5.16	0.245	"	4.71	0.284	103	75-125			
Silver	4.57	0.0942	"	4.71	0.0260	96.4	75-125			
Zinc	98.0	34.9	"	47.1	44.2	114	75-125			

Matrix Spike Dup (B5D2438-MSD1)				Source: E5D0661-06		Prepared: 04/24/2025 Analyzed: 04/24/2025				
Arsenic	10.2	0.242	mg/kg	4.18	6.70	84.8	75-125	27.2	20	QR-DUP
Barium	555	8.35	"	418	122	104	75-125	8.69	20	
Cadmium	4.63	0.0835	"	4.18	0.121	108	75-125	16.3	20	
Copper	52.7	8.35	"	41.8	9.25	104	75-125	16.6	20	
Lead	13.8	0.835	"	4.18	10.4	81.7	75-125	22.8	20	QR-DUP
Nickel	13.6	0.835	"	4.18	11.0	62.4	75-125	17.3	20	QM-07
Selenium	4.40	0.217	"	4.18	0.284	98.7	75-125	15.8	20	
Silver	3.78	0.0835	"	4.18	0.0260	89.9	75-125	18.9	20	
Zinc	84.5	30.9	"	41.8	44.2	96.5	75-125	14.8	20	

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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 B5D2422 - Saturated Paste pH/EC

Blank (B5D2422-BLK1)

Prepared: 04/24/2025 Analyzed: 04/28/2025

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B5D2422-DUP1)

Source: E5D0658-09

Prepared: 04/24/2025 Analyzed: 04/28/2025

pH	8.53		pH Units	8.38	1.77	25
Specific Conductance (EC)	0.702	0.00500	mmhos/cm	0.730	3.83	25

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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 B5D2351 - EPA 5030 (soil)

Blank (B5D2351-BLK1)

Prepared: 04/23/2025 Analyzed: 04/24/2025

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U

Surrogate: 1,2-Dichloroethane-d4	0.13	"	0.125	103	70-130
Surrogate: Toluene-d8	0.12	"	0.125	98.7	70-130
Surrogate: 4-Bromofluorobenzene	0.13	"	0.125	100	70-130

LCS (B5D2351-BS1)

Prepared: 04/23/2025 Analyzed: 04/24/2025

1,2,4-Trimethylbenzene	0.0985	0.00200	mg/kg	0.100	98.5	70-130
1,3,5-Trimethylbenzene	0.0990	0.00200	"	0.100	99.0	70-130
Benzene	0.0947	0.00200	"	0.100	94.7	70-130
Ethylbenzene	0.0942	0.00200	"	0.100	94.2	70-130
Naphthalene	0.112	0.00380	"	0.100	112	70-130
Toluene	0.0934	0.00200	"	0.100	93.4	70-130
o-Xylene	0.0957	0.00200	"	0.100	95.7	70-130
m,p-Xylene	0.189	0.00400	"	0.200	94.7	70-130

Surrogate: 1,2-Dichloroethane-d4	0.12	"	0.125	99.7	70-130
Surrogate: Toluene-d8	0.13	"	0.125	100	70-130
Surrogate: 4-Bromofluorobenzene	0.12	"	0.125	99.7	70-130

Matrix Spike (B5D2351-MS1)

Source: E5D0661-01

Prepared: 04/23/2025 Analyzed: 04/24/2025

1,2,4-Trimethylbenzene	0.0803	0.00200	mg/kg	0.100	ND	80.3	70-130
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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 B5D2351 - EPA 5030 (soil)

Matrix Spike (B5D2351-MS1)			Source: E5D0661-01			Prepared: 04/23/2025 Analyzed: 04/24/2025				
1,3,5-Trimethylbenzene	0.0791	0.00200	mg/kg	0.100	ND	79.1	70-130			
Benzene	0.0344	0.00200	"	0.100	ND	34.4	70-130			QM-07
Ethylbenzene	0.0684	0.00200	"	0.100	ND	68.4	70-130			QM-07
Naphthalene	0.100	0.00380	"	0.100	ND	100	70-130			
Toluene	0.0562	0.00200	"	0.100	ND	56.2	70-130			QM-07
o-Xylene	0.0723	0.00200	"	0.100	ND	72.3	70-130			
m,p-Xylene	0.138	0.00400	"	0.200	ND	69.0	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

Matrix Spike Dup (B5D2351-MSD1)			Source: E5D0661-01			Prepared: 04/23/2025 Analyzed: 04/24/2025				
1,2,4-Trimethylbenzene	0.0751	0.00200	mg/kg	0.100	ND	75.1	70-130	6.67	20	
1,3,5-Trimethylbenzene	0.0736	0.00200	"	0.100	ND	73.6	70-130	7.15	20	
Benzene	0.0324	0.00200	"	0.100	ND	32.4	70-130	5.99	20	QM-07
Ethylbenzene	0.0649	0.00200	"	0.100	ND	64.9	70-130	5.31	20	QM-07
Naphthalene	0.0962	0.00380	"	0.100	ND	96.2	70-130	4.29	20	
Toluene	0.0529	0.00200	"	0.100	ND	52.9	70-130	5.98	20	QM-07
o-Xylene	0.0683	0.00200	"	0.100	ND	68.3	70-130	5.72	20	QM-07
m,p-Xylene	0.131	0.00400	"	0.200	ND	65.5	70-130	5.16	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

Batch B5D2462 - EPA 5030B (Water)

Blank (B5D2462-BLK1)			Prepared: 04/24/2025 Analyzed: 04/24/2025							
1,1,1,2-Tetrachloroethane	ND	1.00	ug/L							U
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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 B5D2462 - EPA 5030B (Water)

Blank (B5D2462-BLK1)

Prepared: 04/24/2025 Analyzed: 04/24/2025

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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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5D2462 - EPA 5030B (Water)

Blank (B5D2462-BLK1)

Prepared: 04/24/2025 Analyzed: 04/24/2025

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
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

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5D2462 - EPA 5030B (Water)

Blank (B5D2462-BLK1)

Prepared: 04/24/2025 Analyzed: 04/24/2025

sec-Butylbenzene	ND	1.00	ug/L							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
o-Xylene	ND	1.00	"							U
m,p-Xylene	ND	2.00	"							U

Surrogate: 1,2-Dichloroethane-d4	63	"	62.5	101	70-130
Surrogate: Toluene-d8	62	"	62.5	99.5	70-130
Surrogate: 4-Bromofluorobenzene	51	"	62.5	82.1	70-130

LCS (B5D2462-BS1)

Prepared: 04/24/2025 Analyzed: 04/24/2025

1,1,1,2-Tetrachloroethane	52.0	1.00	ug/L	50.0	104	70-130
1,1,1-Trichloroethane	51.1	1.00	"	50.0	102	70-130
1,1,2,2-Tetrachloroethane	50.1	1.00	"	50.0	100	70-130
1,1,2-Trichloroethane	57.6	1.00	"	50.0	115	70-130
1,1-Dichloroethane	49.7	1.00	"	50.0	99.4	70-130
1,1-Dichloroethene	48.4	1.00	"	50.0	96.9	70-130
1,1-Dichloropropene	56.0	1.00	"	50.0	112	70-130
1,2,3-Trichlorobenzene	62.1	5.00	"	50.0	124	70-130
1,2,3-Trichloropropane	47.9	5.00	"	50.0	95.8	70-130
1,2,4-Trichlorobenzene	62.8	5.00	"	50.0	126	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
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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 B5D2462 - EPA 5030B (Water)

LCS (B5D2462-BS1)

Prepared: 04/24/2025 Analyzed: 04/24/2025

1,2,4-Trimethylbenzene	52.8	1.00	ug/L	50.0		106	70-130			
1,2-Dibromo-3-chloropropane	50.2	5.00	"	50.0		100	70-130			
1,2-Dibromoethane (EDB)	54.9	1.50	"	50.0		110	70-130			
1,2-Dichlorobenzene	56.2	1.00	"	50.0		112	70-130			
1,2-Dichloroethane	55.4	1.00	"	50.0		111	70-130			
1,2-Dichloropropane	53.8	1.00	"	50.0		108	70-130			
1,3,5-Trimethylbenzene	48.3	1.00	"	50.0		96.7	70-130			
1,3-Dichlorobenzene	51.3	1.00	"	50.0		103	70-130			
1,3-Dichloropropane	57.8	1.00	"	50.0		116	70-130			
1,4-Dichlorobenzene	55.9	1.00	"	50.0		112	70-130			
2,2-Dichloropropane	50.9	1.00	"	50.0		102	70-130			
2-Butanone	258	5.00	"	250		103	70-130			
2-Chlorotoluene	39.6	1.00	"	50.0		79.2	70-130			
2-Hexanone	250	6.00	"	250		100	70-130			
4-Chlorotoluene	49.6	1.00	"	50.0		99.3	70-130			
4-Isopropyltoluene	54.7	1.00	"	50.0		109	70-130			
4-Methyl-2-pentanone	244	5.00	"	250		97.7	70-130			
Acetone	266	8.00	"	250		106	70-130			
Benzene	56.3	1.00	"	50.0		113	70-130			
Bromobenzene	48.7	1.00	"	50.0		97.3	70-130			
Bromochloromethane	55.6	1.00	"	50.0		111	70-130			
Bromodichloromethane	53.8	1.00	"	50.0		108	70-130			
Bromoform	49.3	1.00	"	50.0		98.7	70-130			
Bromomethane	47.1	1.00	"	50.0		94.2	70-130			
Carbon disulfide	50.7	5.00	"	50.0		101	70-130			
Carbon tetrachloride	52.2	1.00	"	50.0		104	70-130			

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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 B5D2462 - EPA 5030B (Water)

LCS (B5D2462-BS1)

Prepared: 04/24/2025 Analyzed: 04/24/2025

Chlorobenzene	58.6	1.00	ug/L	50.0		117	70-130			
Chloroethane	50.6	1.00	"	50.0		101	70-130			
Chloroform	55.5	1.00	"	50.0		111	70-130			
Chloromethane	43.9	1.00	"	50.0		87.8	70-130			
cis-1,2-Dichloroethene	50.6	1.00	"	50.0		101	70-130			
cis-1,3-Dichloropropene	56.4	1.00	"	50.0		113	70-130			
Dibromochloromethane	58.1	1.00	"	50.0		116	70-130			
Dibromomethane	58.2	1.00	"	50.0		116	70-130			
Ethylbenzene	49.0	1.00	"	50.0		97.9	70-130			
Hexachlorobutadiene	62.7	5.00	"	50.0		125	70-130			
Iodomethane	50.7	10.0	"	50.0		101	70-130			
Isopropylbenzene	51.0	1.00	"	50.0		102	70-130			
Methylene Chloride	49.5	15.0	"	50.0		99.0	70-130			
Methyl tert-Butyl Ether	52.7	1.00	"	50.0		105	70-130			
Naphthalene	56.1	4.00	"	50.0		112	70-130			
n-Butylbenzene	54.0	1.00	"	50.0		108	70-130			
n-Propylbenzene	49.1	1.00	"	50.0		98.1	70-130			
sec-Butylbenzene	52.8	1.00	"	50.0		106	70-130			
Styrene	49.9	1.00	"	50.0		99.8	70-130			
tert-Butylbenzene	48.1	1.00	"	50.0		96.3	70-130			
Tetrachloroethene	56.4	1.00	"	50.0		113	70-130			
Toluene	52.9	1.00	"	50.0		106	70-130			
trans-1,2-Dichloroethene	49.6	1.00	"	50.0		99.2	70-130			
trans-1,3-Dichloropropene	52.5	1.00	"	50.0		105	70-130			
Trichloroethene	56.0	1.00	"	50.0		112	70-130			
Trichlorofluoromethane	54.6	1.00	"	50.0		109	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 B5D2462 - EPA 5030B (Water)

LCS (B5D2462-BS1)

Prepared: 04/24/2025 Analyzed: 04/24/2025

Vinyl chloride	43.7	1.00	ug/L	50.0		87.4	70-130			
o-Xylene	49.8	1.00	"	50.0		99.6	70-130			
m,p-Xylene	100	2.00	"	100		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		98.8	70-130			
Surrogate: Toluene-d8	57		"	62.5		90.9	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.4	70-130			

Matrix Spike (B5D2462-MS1)

Source: E5D0658-11

Prepared: 04/24/2025 Analyzed: 04/24/2025

1,1,1,2-Tetrachloroethane	57.8	1.00	ug/L	50.0	ND	116	70-130			
1,1,1-Trichloroethane	55.7	1.00	"	50.0	ND	111	70-130			
1,1,2,2-Tetrachloroethane	53.2	1.00	"	50.0	ND	106	70-130			
1,1,2-Trichloroethane	62.0	1.00	"	50.0	ND	124	70-130			
1,1-Dichloroethane	55.0	1.00	"	50.0	ND	110	70-130			
1,1-Dichloroethene	56.0	1.00	"	50.0	ND	112	70-130			
1,1-Dichloropropene	61.6	1.00	"	50.0	ND	123	70-130			
1,2,3-Trichlorobenzene	67.2	5.00	"	50.0	ND	134	70-130			QM-07
1,2,3-Trichloropropane	51.1	5.00	"	50.0	ND	102	70-130			
1,2,4-Trichlorobenzene	67.3	5.00	"	50.0	ND	135	70-130			QM-07
1,2,4-Trimethylbenzene	57.0	1.00	"	50.0	ND	114	70-130			
1,2-Dibromo-3-chloropropane	55.1	5.00	"	50.0	ND	110	70-130			
1,2-Dibromoethane (EDB)	58.3	1.50	"	50.0	ND	117	70-130			
1,2-Dichlorobenzene	60.7	1.00	"	50.0	ND	121	70-130			
1,2-Dichloroethane	59.8	1.00	"	50.0	ND	120	70-130			
1,2-Dichloropropane	57.9	1.00	"	50.0	ND	116	70-130			
1,3,5-Trimethylbenzene	52.6	1.00	"	50.0	ND	105	70-130			
1,3-Dichlorobenzene	55.0	1.00	"	50.0	ND	110	70-130			
1,3-Dichloropropane	61.2	1.00	"	50.0	ND	122	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5D2462 - EPA 5030B (Water)

Matrix Spike (B5D2462-MS1)

Source: E5D0658-11

Prepared: 04/24/2025 Analyzed: 04/24/2025

1,4-Dichlorobenzene	62.0	1.00	ug/L	50.0	ND	124	70-130			
2,2-Dichloropropane	55.6	1.00	"	50.0	ND	111	70-130			
2-Butanone	271	5.00	"	250	ND	108	70-130			
2-Chlorotoluene	52.8	1.00	"	50.0	ND	106	70-130			
2-Hexanone	263	6.00	"	250	ND	105	70-130			
4-Chlorotoluene	53.9	1.00	"	50.0	ND	108	70-130			
4-Isopropyltoluene	59.2	1.00	"	50.0	ND	118	70-130			
4-Methyl-2-pentanone	259	5.00	"	250	ND	103	70-130			
Acetone	283	8.00	"	250	ND	113	70-130			
Benzene	62.1	1.00	"	50.0	ND	124	70-130			
Bromobenzene	52.5	1.00	"	50.0	ND	105	70-130			
Bromochloromethane	60.5	1.00	"	50.0	ND	121	70-130			
Bromodichloromethane	57.0	1.00	"	50.0	ND	114	70-130			
Bromoform	52.4	1.00	"	50.0	ND	105	70-130			
Bromomethane	44.7	1.00	"	50.0	ND	89.4	70-130			
Carbon disulfide	62.8	5.00	"	50.0	ND	126	70-130			
Carbon tetrachloride	56.8	1.00	"	50.0	ND	114	70-130			
Chlorobenzene	63.1	1.00	"	50.0	ND	126	70-130			
Chloroethane	47.8	1.00	"	50.0	ND	95.5	70-130			
Chloroform	57.8	1.00	"	50.0	ND	116	70-130			
Chloromethane	41.7	1.00	"	50.0	ND	83.5	70-130			
cis-1,2-Dichloroethene	55.9	1.00	"	50.0	ND	112	70-130			
cis-1,3-Dichloropropene	61.6	1.00	"	50.0	ND	123	70-130			
Dibromochloromethane	62.4	1.00	"	50.0	ND	125	70-130			
Dibromomethane	62.2	1.00	"	50.0	ND	124	70-130			
Ethylbenzene	53.6	1.00	"	50.0	ND	107	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5D2462 - EPA 5030B (Water)

Matrix Spike (B5D2462-MS1)			Source: E5D0658-11			Prepared: 04/24/2025 Analyzed: 04/24/2025				
Hexachlorobutadiene	67.2	5.00	ug/L	50.0	ND	134	70-130			QM-07
Iodomethane	59.9	10.0	"	50.0	ND	120	70-130			
Isopropylbenzene	55.8	1.00	"	50.0	ND	112	70-130			
Methylene Chloride	55.6	15.0	"	50.0	ND	111	70-130			
Methyl tert-Butyl Ether	55.1	1.00	"	50.0	ND	110	70-130			
Naphthalene	59.8	4.00	"	50.0	ND	120	70-130			
n-Butylbenzene	58.2	1.00	"	50.0	ND	116	70-130			
n-Propylbenzene	53.2	1.00	"	50.0	ND	106	70-130			
sec-Butylbenzene	57.6	1.00	"	50.0	ND	115	70-130			
Styrene	53.3	1.00	"	50.0	ND	107	70-130			
tert-Butylbenzene	53.2	1.00	"	50.0	ND	106	70-130			
Tetrachloroethene	62.1	1.00	"	50.0	ND	124	70-130			
Toluene	58.6	1.00	"	50.0	ND	117	70-130			
trans-1,2-Dichloroethene	55.4	1.00	"	50.0	ND	111	70-130			
trans-1,3-Dichloropropene	55.7	1.00	"	50.0	ND	111	70-130			
Trichloroethene	60.4	1.00	"	50.0	ND	121	70-130			
Trichlorofluoromethane	51.4	1.00	"	50.0	ND	103	70-130			
Vinyl chloride	41.6	1.00	"	50.0	ND	83.3	70-130			
o-Xylene	54.6	1.00	"	50.0	ND	109	70-130			
m,p-Xylene	109	2.00	"	100	ND	109	70-130			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.6	70-130			
Surrogate: Toluene-d8	58		"	62.5		92.9	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.4	70-130			

Matrix Spike Dup (B5D2462-MSD1)			Source: E5D0658-11			Prepared: 04/24/2025 Analyzed: 04/24/2025				
1,1,1,2-Tetrachloroethane	55.0	1.00	ug/L	50.0	ND	110	70-130	4.93	20	
1,1,1-Trichloroethane	53.1	1.00	"	50.0	ND	106	70-130	4.78	20	

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5D2462 - EPA 5030B (Water)

Matrix Spike Dup (B5D2462-MSD1)

Source: E5D0658-11

Prepared: 04/24/2025 Analyzed: 04/24/2025

1,1,2,2-Tetrachloroethane	53.5	1.00	ug/L	50.0	ND	107	70-130	0.656	20	
1,1,2-Trichloroethane	62.1	1.00	"	50.0	ND	124	70-130	0.209	20	
1,1-Dichloroethane	52.5	1.00	"	50.0	ND	105	70-130	4.65	20	
1,1-Dichloroethene	53.0	1.00	"	50.0	ND	106	70-130	5.48	20	
1,1-Dichloropropene	58.3	1.00	"	50.0	ND	117	70-130	5.49	20	
1,2,3-Trichlorobenzene	64.7	5.00	"	50.0	ND	129	70-130	3.70	20	
1,2,3-Trichloropropane	51.7	5.00	"	50.0	ND	103	70-130	1.13	20	
1,2,4-Trichlorobenzene	64.0	5.00	"	50.0	ND	128	70-130	5.07	20	
1,2,4-Trimethylbenzene	54.1	1.00	"	50.0	ND	108	70-130	5.25	20	
1,2-Dibromo-3-chloropropane	54.6	5.00	"	50.0	ND	109	70-130	0.949	20	
1,2-Dibromoethane (EDB)	59.2	1.50	"	50.0	ND	118	70-130	1.55	20	
1,2-Dichlorobenzene	59.4	1.00	"	50.0	ND	119	70-130	2.15	20	
1,2-Dichloroethane	59.8	1.00	"	50.0	ND	120	70-130	0.0167	20	
1,2-Dichloropropane	56.8	1.00	"	50.0	ND	114	70-130	1.99	20	
1,3,5-Trimethylbenzene	49.3	1.00	"	50.0	ND	98.6	70-130	6.53	20	
1,3-Dichlorobenzene	53.2	1.00	"	50.0	ND	106	70-130	3.38	20	
1,3-Dichloropropane	61.7	1.00	"	50.0	ND	123	70-130	0.814	20	
1,4-Dichlorobenzene	60.6	1.00	"	50.0	ND	121	70-130	2.28	20	
2,2-Dichloropropane	52.9	1.00	"	50.0	ND	106	70-130	5.11	20	
2-Butanone	284	5.00	"	250	ND	114	70-130	4.82	20	
2-Chlorotoluene	50.0	1.00	"	50.0	ND	100	70-130	5.45	20	
2-Hexanone	274	6.00	"	250	ND	110	70-130	4.13	20	
4-Chlorotoluene	51.3	1.00	"	50.0	ND	103	70-130	5.04	20	
4-Isopropyltoluene	54.8	1.00	"	50.0	ND	110	70-130	7.71	20	
4-Methyl-2-pentanone	266	5.00	"	250	ND	106	70-130	2.90	20	
Acetone	293	8.00	"	250	ND	117	70-130	3.47	20	

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5D2462 - EPA 5030B (Water)

Matrix Spike Dup (B5D2462-MSD1)

Source: E5D0658-11

Prepared: 04/24/2025 Analyzed: 04/24/2025

Benzene	59.6	1.00	ug/L	50.0	ND	119	70-130	4.08	20	
Bromobenzene	51.6	1.00	"	50.0	ND	103	70-130	1.79	20	
Bromochloromethane	60.2	1.00	"	50.0	ND	120	70-130	0.514	20	
Bromodichloromethane	57.1	1.00	"	50.0	ND	114	70-130	0.298	20	
Bromoform	53.2	1.00	"	50.0	ND	106	70-130	1.34	20	
Bromomethane	39.8	1.00	"	50.0	ND	79.6	70-130	11.6	20	
Carbon disulfide	59.5	5.00	"	50.0	ND	119	70-130	5.37	20	
Carbon tetrachloride	54.1	1.00	"	50.0	ND	108	70-130	4.85	20	
Chlorobenzene	61.4	1.00	"	50.0	ND	123	70-130	2.72	20	
Chloroethane	41.7	1.00	"	50.0	ND	83.4	70-130	13.5	20	
Chloroform	56.2	1.00	"	50.0	ND	112	70-130	2.79	20	
Chloromethane	35.6	1.00	"	50.0	ND	71.1	70-130	16.0	20	
cis-1,2-Dichloroethene	53.8	1.00	"	50.0	ND	108	70-130	3.68	20	
cis-1,3-Dichloropropene	59.8	1.00	"	50.0	ND	120	70-130	3.08	20	
Dibromochloromethane	62.4	1.00	"	50.0	ND	125	70-130	0.128	20	
Dibromomethane	63.3	1.00	"	50.0	ND	127	70-130	1.64	20	
Ethylbenzene	50.2	1.00	"	50.0	ND	100	70-130	6.59	20	
Hexachlorobutadiene	61.3	5.00	"	50.0	ND	123	70-130	9.25	20	
Iodomethane	57.3	10.0	"	50.0	ND	115	70-130	4.38	20	
Isopropylbenzene	52.1	1.00	"	50.0	ND	104	70-130	6.75	20	
Methylene Chloride	54.0	15.0	"	50.0	ND	108	70-130	2.94	20	
Methyl tert-Butyl Ether	57.7	1.00	"	50.0	ND	115	70-130	4.68	20	
Naphthalene	59.2	4.00	"	50.0	ND	118	70-130	1.01	20	
n-Butylbenzene	53.6	1.00	"	50.0	ND	107	70-130	8.20	20	
n-Propylbenzene	49.7	1.00	"	50.0	ND	99.4	70-130	6.73	20	
sec-Butylbenzene	52.8	1.00	"	50.0	ND	106	70-130	8.73	20	

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5D2462 - EPA 5030B (Water)

Matrix Spike Dup (B5D2462-MSD1)			Source: E5D0658-11			Prepared: 04/24/2025 Analyzed: 04/24/2025				
Styrene	52.5	1.00	ug/L	50.0	ND	105	70-130	1.59	20	
tert-Butylbenzene	48.6	1.00	"	50.0	ND	97.3	70-130	8.94	20	
Tetrachloroethene	57.2	1.00	"	50.0	ND	114	70-130	8.25	20	
Toluene	55.0	1.00	"	50.0	ND	110	70-130	6.37	20	
trans-1,2-Dichloroethene	52.8	1.00	"	50.0	ND	106	70-130	4.70	20	
trans-1,3-Dichloropropene	55.6	1.00	"	50.0	ND	111	70-130	0.198	20	
Trichloroethene	58.2	1.00	"	50.0	ND	116	70-130	3.78	20	
Trichlorofluoromethane	43.7	1.00	"	50.0	ND	87.4	70-130	16.3	20	
Vinyl chloride	35.9	1.00	"	50.0	ND	71.7	70-130	14.9	20	
o-Xylene	51.6	1.00	"	50.0	ND	103	70-130	5.75	20	
m,p-Xylene	103	2.00	"	100	ND	103	70-130	5.88	20	
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.0	70-130			
Surrogate: Toluene-d8	57		"	62.5		90.8	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.6	70-130			

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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



CTEH
5120 North Shore Drive
North Little Rock AR 72118

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

Notes and Definitions

U Sample is Non-Detect.

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

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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Jordan A. Bynon, Project Manager