



CTEH

Kyle Lawrence

5120 North Shore Drive

North Little RockAR 72118

May 14, 2025

Project Name - PROJ-054017

Project Number - PROJ-054017

Attached are your analytical results for PROJ-054017 received by Origins Laboratory April 25, 2025. This project is associated with Origins project number E5D0747-01.

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
GACO0425T050S001	E5D0747-01	Soil	April 25, 2025 8:10	04/25/2025 20:32
GACO0425T050S002	E5D0747-02	Soil	April 25, 2025 8:45	04/25/2025 20:32
GACO0425T050S003	E5D0747-03	Soil	April 25, 2025 9:05	04/25/2025 20:32
GACO0425T050S004	E5D0747-04	Soil	April 25, 2025 10:15	04/25/2025 20:32
GACO0425T050S005	E5D0747-05	Soil	April 25, 2025 10:35	04/25/2025 20:32
GACO0425T050S006	E5D0747-06	Soil	April 25, 2025 11:05	04/25/2025 20:32
GACO0425T050S007	E5D0747-07	Soil	April 25, 2025 11:30	04/25/2025 20:32
GACO0425T050S008	E5D0747-08	Soil	April 25, 2025 12:35	04/25/2025 20:32
GACO0425T050S009	E5D0747-09	Soil	April 25, 2025 12:50	04/25/2025 20:32
GACO0425T050C009	E5D0747-10	Soil	April 25, 2025 12:50	04/25/2025 20:32
GACO0425T050T001	E5D0747-11	Water	April 25, 2025 7:30	04/25/2025 20:32

Origins Laboratory

Jen Pellegrini For Jordan A. Bynon, Project Manager

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Project Number: PROJ-054017

Project: PROJ-054017

Origins Laboratory

Sample Receipt Checklist

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

Origins Work Order: ESD0747

Client: CTEH

Client Project ID: PROJ-054017

Checklist Completed by: JAB/JAR

Shipped Via: HD

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

Date/time completed: 4/26/25

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 3.0 °C

(Describe)

Thermometer ID: T067

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 NaAsO ₂ +NaOH, ZnAc+NaOH)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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)

04/28/25
Date/Time Reviewed

Origins Laboratory

Jen Pellegrini

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

GACO0425T050S001

4/25/2025 8:10:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0747-01 (Soil) Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	2.93		0.0996	mg/L	1	B5D2714	04/27/2025	04/30/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND		0.252	mg/kg	1	B5D2841	04/28/2025	05/08/2025	U
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	34.9		25.0	mg/kg	1	B5D2801	04/28/2025	04/29/2025	I-01
Residual Range Organics (C28-C40)239			100	"	"	"	"	"	I-01
Surrogate: o-Terphenyl	%			50-150		"	"	"	S-DUP, U
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5D2601	04/26/2025	04/26/2025	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	91.2 %			70-130		"	"	"	

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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GACO0425T050S001

4/25/2025 8:10:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0747-01 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	111 %		70-130		B5D2601	04/26/2025	04/26/2025	
Surrogate: 4-Bromofluorobenzene	93.4 %		70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	6.06	0.499	meq/L	10	[CALC]	04/27/2025	04/30/2025	
Magnesium	3.15	0.823	"	"	"	"	"	
Sodium	1.38	0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND	0.002	mg/kg	1	B5D2818	04/28/2025	04/28/2025	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 (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

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GACO0425T050S001

4/25/2025 8:10:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0747-01 (Soil) Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
Fluoranthene	ND		0.020	mg/kg	1	B5D2818	04/28/2025	04/28/2025	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	94.6 %			60-130		"	"	"	
Surrogate: Anthracene-d10	90.6 %			60-130		"	"	"	
Surrogate: Pyrene-d10	97.0 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	102 %			60-130		"	"	"	
pH in Soil by 9045D									
pH	7.96			pH Units	1	B5D2720	04/27/2025	04/29/2025	
SAR by 20B Saturated Paste									
SAR	0.645		0.0100	SAR	1	B5D2708	04/27/2025	04/30/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	1.33		0.00500	mmhos/cm	1	B5D2720	04/27/2025	04/29/2025	

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Project Number: PROJ-054017

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GACO0425T050S001

4/25/2025 8:10:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0747-01 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	4.03	0.261	mg/kg	10	B5D2701	04/27/2025	04/28/2025	
Barium	58.4	9.00	"	"	"	"	"	
Cadmium	0.188	0.0900	"	"	"	"	"	
Copper	9.23	9.00	"	"	"	"	"	
Lead	8.26	0.900	"	"	"	"	"	
Nickel	6.28	0.900	"	"	"	"	"	
Selenium	0.289	0.234	"	"	"	"	"	
Silver	ND	0.0900	"	"	"	"	"	U
Zinc	43.4	33.3	"	"	"	"	"	

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Project Number: PROJ-054017

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GACO0425T050S002

4/25/2025 8:45:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0747-02 (Soil) Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	1.07		0.100	mg/L	1	B5D2714	04/27/2025	04/30/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND		0.253	mg/kg	1	B5D2841	04/28/2025	05/08/2025	U
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5D2801	04/28/2025	04/28/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	108 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5D2601	04/26/2025	04/26/2025	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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GACO0425T050S002

4/25/2025 8:45:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0747-02 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	106 %		70-130		B5D2601	04/26/2025	04/26/2025	
Surrogate: Toluene-d8	78.7 %		70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	82.7 %		70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	3.31	0.499	meq/L	10	[CALC]	04/27/2025	04/30/2025	
Magnesium	1.68	0.823	"	"	"	"	"	
Sodium	0.948	0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND	0.002	mg/kg	1	B5D2818	04/28/2025	04/28/2025	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 (g,h,i) perylene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U

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Project Number: PROJ-054017

Project: PROJ-054017

GACO0425T050S002**4/25/2025 8:45:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0747-02 (Soil) Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
Dibenz (a,h) anthracene	ND		0.020	mg/kg	1	B5D2818	04/28/2025	04/28/2025	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	95.2 %			60-130		"	"	"	
Surrogate: Anthracene-d10	97.6 %			60-130		"	"	"	
Surrogate: Pyrene-d10	99.7 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	100 %			60-130		"	"	"	
pH in Soil by 9045D									
pH	7.73			pH Units	1	B5D2720	04/27/2025	04/29/2025	
SAR by 20B Saturated Paste									
SAR	0.600		0.0100	SAR	1	B5D2708	04/27/2025	04/30/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	0.821		0.00500	mmhos/cm	1	B5D2720	04/27/2025	04/29/2025	

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Project Number: PROJ-054017

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GACO0425T050S002

4/25/2025 8:45:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0747-02 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	5.23	0.252	mg/kg	10	B5D2701	04/27/2025	04/28/2025	
Barium	83.4	8.69	"	"	"	"	"	
Cadmium	0.161	0.0869	"	"	"	"	"	
Copper	8.71	8.69	"	"	"	"	"	
Lead	7.65	0.869	"	"	"	"	"	
Nickel	6.93	0.869	"	"	"	"	"	
Selenium	0.319	0.226	"	"	"	"	"	
Silver	ND	0.0869	"	"	"	"	"	U
Zinc	39.4	32.2	"	"	"	"	"	

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5120 North Shore Drive

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Project Number: PROJ-054017

Project: PROJ-054017

GACO0425T050S003

4/25/2025 9:05:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0747-03 (Soil) Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.605		0.100	mg/L	1	B5D2714	04/27/2025	04/30/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND		0.241	mg/kg	1	B5D2841	04/28/2025	05/08/2025	U
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5D2801	04/28/2025	04/28/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	94.5 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5D2601	04/26/2025	04/26/2025	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

GACO0425T050S003

4/25/2025 9:05:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0747-03 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	106 %		70-130		B5D2601	04/26/2025	04/26/2025	
Surrogate: Toluene-d8	104 %		70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	82.4 %		70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	3.07	0.499	meq/L	10	[CALC]	04/27/2025	04/30/2025	
Magnesium	1.47	0.823	"	"	"	"	"	
Sodium	2.32	0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND	0.002	mg/kg	1	B5D2818	04/28/2025	04/28/2025	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 (g,h,i) perylene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U

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CTEH

5120 North Shore Drive

North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: PROJ-054017

GACO0425T050S003

4/25/2025 9:05:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0747-03 (Soil) Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
Dibenz (a,h) anthracene	ND		0.020	mg/kg	1	B5D2818	04/28/2025	04/28/2025	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	92.3 %			60-130		"	"	"	
Surrogate: Anthracene-d10	89.8 %			60-130		"	"	"	
Surrogate: Pyrene-d10	100 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	102 %			60-130		"	"	"	
pH in Soil by 9045D									
pH	7.80			pH Units	1	B5D2720	04/27/2025	04/29/2025	
SAR by 20B Saturated Paste									
SAR	1.54		0.0100	SAR	1	B5D2708	04/27/2025	04/30/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	0.862		0.00500	mmhos/cm	1	B5D2720	04/27/2025	04/29/2025	

Origins Laboratory

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Jen Pellegrini For Jordan A. Bynon, Project Manager



CTEH

5120 North Shore Drive

North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: PROJ-054017

GACO0425T050S003

4/25/2025 9:05:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0747-03 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	3.39	0.274	mg/kg	10	B5D2701	04/27/2025	04/28/2025	
Barium	59.0	9.45	"	"	"	"	"	
Cadmium	0.125	0.0945	"	"	"	"	"	
Copper	ND	9.45	"	"	"	"	"	U
Lead	5.70	0.945	"	"	"	"	"	
Nickel	5.98	0.945	"	"	"	"	"	
Selenium	0.255	0.246	"	"	"	"	"	
Silver	ND	0.0945	"	"	"	"	"	U
Zinc	38.1	35.0	"	"	"	"	"	

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

GACO0425T050S004

4/25/2025 10:15:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0747-04 (Soil) Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.922		0.101	mg/L	1	B5D2714	04/27/2025	04/30/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND		0.250	mg/kg	1	B5D2841	04/28/2025	05/08/2025	U
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5D2801	04/28/2025	04/28/2025	U
Residual Range Organics (C28-C40) ¹²⁸			100	"	"	"	"	"	
Surrogate: o-Terphenyl	97.6 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5D2601	04/26/2025	04/26/2025	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	121 %			70-130		"	"	"	

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

GACO0425T050S004

4/25/2025 10:15:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0747-04 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	101 %		70-130		B5D2601	04/26/2025	04/26/2025	
Surrogate: 4-Bromofluorobenzene	82.6 %		70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	5.04	0.499	meq/L	10	[CALC]	04/27/2025	04/30/2025	
Magnesium	6.44	0.823	"	"	"	"	"	
Sodium	9.97	0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND	0.002	mg/kg	1	B5D2818	04/28/2025	04/28/2025	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	0.016	0.005	"	"	"	"	"	
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

Origins Laboratory

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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

GACO0425T050S004

4/25/2025 10:15:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0747-04 (Soil)									
Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
Fluoranthene	0.033		0.020	mg/kg	1	B5D2818	04/28/2025	04/28/2025	
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	0.026		0.020	"	"	"	"	"	
Surrogate: Fluorene-d10	96.5 %			60-130		"	"	"	
Surrogate: Anthracene-d10	94.2 %			60-130		"	"	"	
Surrogate: Pyrene-d10	98.5 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	106 %			60-130		"	"	"	
pH in Soil by 9045D									
pH	7.47			pH Units	1	B5D2720	04/27/2025	04/29/2025	
SAR by 20B Saturated Paste									
SAR	4.16		0.0100	SAR	1	B5D2708	04/27/2025	04/30/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	3.18		0.00500	mmhos/cm	1	B5D2720	04/27/2025	04/29/2025	

Origins Laboratory

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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

GACO0425T050S004

4/25/2025 10:15:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0747-04 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	3.98	0.253	mg/kg	10	B5D2701	04/27/2025	04/28/2025	
Barium	60.8	8.74	"	"	"	"	"	
Cadmium	0.128	0.0874	"	"	"	"	"	
Copper	10.2	8.74	"	"	"	"	"	
Lead	6.28	0.874	"	"	"	"	"	
Nickel	6.00	0.874	"	"	"	"	"	
Selenium	0.299	0.227	"	"	"	"	"	
Silver	ND	0.0874	"	"	"	"	"	U
Zinc	46.5	32.3	"	"	"	"	"	

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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

GACO0425T050S005

4/25/2025 10:35:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0747-05 (Soil) Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.764		0.0992	mg/L	1	B5D2714	04/27/2025	04/30/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND		0.249	mg/kg	1	B5D2841	04/28/2025	05/08/2025	U
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5D2801	04/28/2025	04/28/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	84.2 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5D2601	04/26/2025	04/26/2025	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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North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: PROJ-054017

GACO0425T050S005

4/25/2025 10:35:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0747-05 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	104 %		70-130		B5D2601	04/26/2025	04/26/2025	
Surrogate: Toluene-d8	103 %		70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	86.0 %		70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	8.06	0.499	meq/L	10	[CALC]	04/27/2025	04/30/2025	
Magnesium	3.82	0.823	"	"	"	"	"	
Sodium	3.56	0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND	0.002	mg/kg	1	B5D2818	04/28/2025	04/28/2025	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 (g,h,i) perylene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U

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North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: PROJ-054017

GACO0425T050S005

4/25/2025 10:35:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0747-05 (Soil) Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
Dibenz (a,h) anthracene	ND		0.020	mg/kg	1	B5D2818	04/28/2025	04/28/2025	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	95.4 %			60-130		"	"	"	
Surrogate: Anthracene-d10	92.3 %			60-130		"	"	"	
Surrogate: Pyrene-d10	98.6 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	102 %			60-130		"	"	"	
pH in Soil by 9045D									
pH	7.74			pH Units	1	B5D2720	04/27/2025	04/29/2025	
SAR by 20B Saturated Paste									
SAR	1.46		0.0100	SAR	1	B5D2708	04/27/2025	04/30/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	1.52		0.00500	mmhos/cm	1	B5D2720	04/27/2025	04/29/2025	

Origins Laboratory

Jen Pellegrini For Jordan A. Bynon, Project Manager

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Kyle Lawrence

Project Number: PROJ-054017

Project: PROJ-054017

GACO0425T050S005

4/25/2025 10:35:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0747-05 (Soil) Origins Laboratory									
Table 915 metals by EPA 6020B									
Arsenic	6.38		0.252	mg/kg	10	B5D2701	04/27/2025	04/28/2025	
Barium	122		8.67	"	"	"	"	"	
Cadmium	0.230		0.0867	"	"	"	"	"	
Copper	15.9		8.67	"	"	"	"	"	
Lead	9.62		0.867	"	"	"	"	"	
Nickel	9.72		0.867	"	"	"	"	"	
Selenium	0.451		0.226	"	"	"	"	"	
Silver	ND		0.0867	"	"	"	"	"	U
Zinc	50.5		32.1	"	"	"	"	"	

Origins Laboratory

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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

GACO0425T050S006

4/25/2025 11:05:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0747-06 (Soil) Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.618		0.101	mg/L	1	B5D2714	04/27/2025	04/30/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND		0.249	mg/kg	1	B5D2841	04/28/2025	05/08/2025	U
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5D2801	04/28/2025	04/28/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	88.7 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5D2601	04/26/2025	04/26/2025	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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5120 North Shore Drive

North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: PROJ-054017

GACO0425T050S006

4/25/2025 11:05:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0747-06 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	128 %		70-130		B5D2601	04/26/2025	04/26/2025	
Surrogate: Toluene-d8	105 %		70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	81.8 %		70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	2.60	0.499	meq/L	10	[CALC]	04/27/2025	04/30/2025	
Magnesium	1.21	0.823	"	"	"	"	"	
Sodium	0.709	0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND	0.002	mg/kg	1	B5D2818	04/28/2025	04/28/2025	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 (g,h,i) perylene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	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

GACO0425T050S006

4/25/2025 11:05:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0747-06 (Soil) Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
Dibenz (a,h) anthracene	ND		0.020	mg/kg	1	B5D2818	04/28/2025	04/28/2025	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	95.1 %			60-130		"	"	"	
Surrogate: Anthracene-d10	89.2 %			60-130		"	"	"	
Surrogate: Pyrene-d10	100 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	103 %			60-130		"	"	"	
pH in Soil by 9045D									
pH	7.91			pH Units	1	B5D2720	04/27/2025	04/29/2025	
SAR by 20B Saturated Paste									
SAR	0.514		0.0100	SAR	1	B5D2708	04/27/2025	04/30/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	0.519		0.00500	mmhos/cm	1	B5D2720	04/27/2025	04/29/2025	

Origins Laboratory

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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

GACO0425T050S006

4/25/2025 11:05:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0747-06 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	5.56	0.249	mg/kg	10	B5D2701	04/27/2025	04/28/2025	
Barium	66.4	8.58	"	"	"	"	"	"
Cadmium	0.160	0.0858	"	"	"	"	"	"
Copper	9.26	8.58	"	"	"	"	"	"
Lead	7.58	0.858	"	"	"	"	"	"
Nickel	7.42	0.858	"	"	"	"	"	"
Selenium	0.305	0.223	"	"	"	"	"	"
Silver	ND	0.0858	"	"	"	"	"	U
Zinc	40.0	31.7	"	"	"	"	"	"

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

GACO0425T050S007

4/25/2025 11:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0747-07 (Soil) Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.625		0.0990	mg/L	1	B5D2714	04/27/2025	04/30/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND		0.245	mg/kg	1	B5D2841	04/28/2025	05/08/2025	U
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5D2801	04/28/2025	04/28/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	90.0 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5D2601	04/26/2025	04/26/2025	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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5120 North Shore Drive

North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: PROJ-054017

GACO0425T050S007

4/25/2025 11:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0747-07 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	106 %		70-130		B5D2601	04/26/2025	04/26/2025	
Surrogate: Toluene-d8	124 %		70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	81.5 %		70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	4.03	0.499	meq/L	10	[CALC]	04/27/2025	04/30/2025	
Magnesium	2.27	0.823	"	"	"	"	"	
Sodium	3.48	0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND	0.002	mg/kg	1	B5D2818	04/28/2025	04/28/2025	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 (g,h,i) perylene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	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

GACO0425T050S007**4/25/2025 11:30:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0747-07 (Soil)									
Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
Dibenz (a,h) anthracene	ND		0.020	mg/kg	1	B5D2818	04/28/2025	04/28/2025	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	96.7 %			60-130		"	"	"	
Surrogate: Anthracene-d10	95.1 %			60-130		"	"	"	
Surrogate: Pyrene-d10	96.8 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	104 %			60-130		"	"	"	
pH in Soil by 9045D									
pH	7.82			pH Units	1	B5D2720	04/27/2025	04/29/2025	
SAR by 20B Saturated Paste									
SAR	1.96		0.0100	SAR	1	B5D2708	04/27/2025	04/30/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	1.14		0.00500	mmhos/cm	1	B5D2720	04/27/2025	04/29/2025	

Origins Laboratory

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Jen Pellegrini For Jordan A. Bynon, Project Manager



CTEH

5120 North Shore Drive

North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: PROJ-054017

GACO0425T050S007

4/25/2025 11:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0747-07 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	4.35	0.259	mg/kg	10	B5D2701	04/27/2025	04/28/2025	
Barium	68.9	8.94	"	"	"	"	"	
Cadmium	0.137	0.0894	"	"	"	"	"	
Copper	ND	8.94	"	"	"	"	"	U
Lead	6.54	0.894	"	"	"	"	"	
Nickel	5.89	0.894	"	"	"	"	"	
Selenium	0.303	0.232	"	"	"	"	"	
Silver	ND	0.0894	"	"	"	"	"	U
Zinc	42.0	33.1	"	"	"	"	"	

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

GACO0425T050S008**4/25/2025 12:35:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0747-08 (Soil) Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.919		0.100	mg/L	1	B5D2714	04/27/2025	04/30/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND		0.243	mg/kg	1	B5D2841	04/28/2025	05/08/2025	U
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5D2801	04/28/2025	04/28/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	76.7 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5D2601	04/26/2025	04/26/2025	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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5120 North Shore Drive

North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: PROJ-054017

GACO0425T050S008

4/25/2025 12:35:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0747-08 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	111 %		70-130		B5D2601	04/26/2025	04/26/2025	
Surrogate: Toluene-d8	106 %		70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	109 %		70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	6.68	0.499	meq/L	10	[CALC]	04/27/2025	04/30/2025	
Magnesium	3.36	0.823	"	"	"	"	"	
Sodium	2.86	0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND	0.002	mg/kg	1	B5D2818	04/28/2025	04/28/2025	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 (g,h,i) perylene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U

Origins Laboratory

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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

GACO0425T050S008**4/25/2025 12:35:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0747-08 (Soil)									
Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
Dibenz (a,h) anthracene	ND		0.020	mg/kg	1	B5D2818	04/28/2025	04/28/2025	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	0.002		0.002	"	"	"	"	"	U
Phenanthrene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U
Surrogate: Fluorene-d10	96.8 %			60-130		"	"	"	
Surrogate: Anthracene-d10	93.6 %			60-130		"	"	"	
Surrogate: Pyrene-d10	99.3 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	101 %			60-130		"	"	"	
pH in Soil by 9045D									
pH	7.78			pH Units	1	B5D2720	04/27/2025	04/29/2025	
SAR by 20B Saturated Paste									
SAR	1.27		0.0100	SAR	1	B5D2708	04/27/2025	04/30/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	1.34		0.00500	mmhos/cm	1	B5D2720	04/27/2025	04/29/2025	

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

GACO0425T050S008

4/25/2025 12:35:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0747-08 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	5.02	0.255	mg/kg	10	B5D2701	04/27/2025	04/28/2025	
Barium	77.5	8.79	"	"	"	"	"	
Cadmium	0.177	0.0879	"	"	"	"	"	
Copper	10.2	8.79	"	"	"	"	"	
Lead	8.43	0.879	"	"	"	"	"	
Nickel	8.53	0.879	"	"	"	"	"	
Selenium	0.304	0.228	"	"	"	"	"	
Silver	ND	0.0879	"	"	"	"	"	U
Zinc	49.5	32.5	"	"	"	"	"	

Origins Laboratory

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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

GACO0425T050S009

4/25/2025 12:50:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0747-09 (Soil) Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.916		0.101	mg/L	1	B5D2714	04/27/2025	04/30/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND		0.249	mg/kg	1	B5D2841	04/28/2025	05/08/2025	U
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5D2801	04/28/2025	04/28/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	79.5 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5D2601	04/26/2025	04/26/2025	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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5120 North Shore Drive

North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: PROJ-054017

GACO0425T050S009

4/25/2025 12:50:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0747-09 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	102 %		70-130		B5D2601	04/26/2025	04/26/2025	
Surrogate: Toluene-d8	105 %		70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	82.5 %		70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	11.6	0.499	meq/L	10	[CALC]	04/27/2025	04/30/2025	
Magnesium	5.90	0.823	"	"	"	"	"	
Sodium	3.52	0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND	0.002	mg/kg	1	B5D2818	04/28/2025	04/28/2025	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 (g,h,i) perylene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U

Origins Laboratory

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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

GACO0425T050S009

4/25/2025 12:50:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0747-09 (Soil) Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
Dibenz (a,h) anthracene	ND		0.020	mg/kg	1	B5D2818	04/28/2025	04/28/2025	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	95.7 %			60-130		"	"	"	
Surrogate: Anthracene-d10	88.5 %			60-130		"	"	"	
Surrogate: Pyrene-d10	99.8 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	108 %			60-130		"	"	"	
pH in Soil by 9045D									
pH	7.99			pH Units	1	B5D2720	04/27/2025	04/29/2025	
SAR by 20B Saturated Paste									
SAR	1.19		0.0100	SAR	1	B5D2708	04/27/2025	04/30/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	2.28		0.00500	mmhos/cm	1	B5D2720	04/27/2025	04/29/2025	

Origins Laboratory

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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

GACO0425T050S009

4/25/2025 12:50:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0747-09 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	3.94	0.245	mg/kg	10	B5D2701	04/27/2025	04/28/2025	
Barium	212	8.44	"	"	"	"	"	
Cadmium	0.224	0.0844	"	"	"	"	"	
Copper	13.3	8.44	"	"	"	"	"	
Lead	10.5	0.844	"	"	"	"	"	
Nickel	10.8	0.844	"	"	"	"	"	
Selenium	0.371	0.219	"	"	"	"	"	
Silver	ND	0.0844	"	"	"	"	"	U
Zinc	62.0	31.2	"	"	"	"	"	

Origins Laboratory

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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

GACO0425T050C009

4/25/2025 12:50:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0747-10 (Soil) Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.864		0.0992	mg/L	1	B5D2714	04/27/2025	04/30/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND		0.243	mg/kg	1	B5D2841	04/28/2025	05/08/2025	U
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5D2801	04/28/2025	04/28/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	84.9 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5D2601	04/26/2025	04/26/2025	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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5120 North Shore Drive

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Kyle Lawrence

Project Number: PROJ-054017

Project: PROJ-054017

GACO0425T050C009

4/25/2025 12:50:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0747-10 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	108 %		70-130		B5D2601	04/26/2025	04/26/2025	
Surrogate: Toluene-d8	104 %		70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	75.4 %		70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	9.00	0.499	meq/L	10	[CALC]	04/27/2025	04/30/2025	
Magnesium	4.28	0.823	"	"	"	"	"	
Sodium	3.01	0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND	0.002	mg/kg	1	B5D2818	04/28/2025	04/28/2025	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 (g,h,i) perylene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	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

GACO0425T050C009

4/25/2025 12:50:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0747-10 (Soil) Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
Dibenz (a,h) anthracene	ND		0.020	mg/kg	1	B5D2818	04/28/2025	04/28/2025	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	95.1 %			60-130		"	"	"	
Surrogate: Anthracene-d10	90.3 %			60-130		"	"	"	
Surrogate: Pyrene-d10	98.7 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	101 %			60-130		"	"	"	
pH in Soil by 9045D									
pH	7.86			pH Units	1	B5D2720	04/27/2025	04/29/2025	
SAR by 20B Saturated Paste									
SAR	1.17		0.0100	SAR	1	B5D2708	04/27/2025	04/30/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	1.79		0.00500	mmhos/cm	1	B5D2720	04/27/2025	04/29/2025	

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5120 North Shore Drive

North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: PROJ-054017

GACO0425T050C009

4/25/2025 12:50:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0747-10 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	3.84	0.251	mg/kg	10	B5D2701	04/27/2025	04/28/2025	
Barium	161	8.66	"	"	"	"	"	
Cadmium	0.208	0.0866	"	"	"	"	"	
Copper	12.3	8.66	"	"	"	"	"	
Lead	9.61	0.866	"	"	"	"	"	
Nickel	10.2	0.866	"	"	"	"	"	
Selenium	0.365	0.225	"	"	"	"	"	
Silver	ND	0.0866	"	"	"	"	"	U
Zinc	60.5	32.1	"	"	"	"	"	

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5120 North Shore Drive

North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: PROJ-054017

GACO0425T050T001

4/25/2025 7:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0747-11 (Water) Origins Laboratory									
VOC by EPA 8260D									
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L	1	B5D2578	04/25/2025	04/27/2025	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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North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: PROJ-054017

GACO0425T050T001

4/25/2025 7:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0747-11 (Water) Origins Laboratory									
VOC by EPA 8260D									
1,4-Dichlorobenzene	ND		1.00	ug/L	1	B5D2578	04/25/2025	04/27/2025	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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5120 North Shore Drive

North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: PROJ-054017

GACO0425T050T001

4/25/2025 7:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0747-11 (Water) Origins Laboratory									
VOC by EPA 8260D									
Chloroform	ND		1.00	ug/L	1	B5D2578	04/25/2025	04/27/2025	U
Chloromethane	ND		1.00	"	"	"	"	05/06/2025	U
cis-1,2-Dichloroethene	ND		1.00	"	"	"	"	04/27/2025	U
cis-1,3-Dichloropropene	ND		1.00	"	"	"	"	"	U
Dibromochloromethane	ND		1.00	"	"	"	"	"	U
Dibromomethane	ND		1.00	"	"	"	"	"	U
Ethylbenzene	ND		1.00	"	"	"	"	"	U
Hexachlorobutadiene	ND		5.00	"	"	"	"	"	U
Iodomethane	ND		10.0	"	"	"	"	"	U
Isopropylbenzene	ND		1.00	"	"	"	"	"	U
m,p-Xylene	ND		2.00	"	"	"	"	"	U
Methylene Chloride	ND		15.0	"	"	"	"	"	U
Methyl tert-Butyl Ether	ND		1.00	"	"	"	"	"	U
Naphthalene	ND		4.00	"	"	"	"	"	U
n-Butylbenzene	ND		1.00	"	"	"	"	"	U
n-Propylbenzene	ND		1.00	"	"	"	"	"	U
o-Xylene	ND		1.00	"	"	"	"	"	U
sec-Butylbenzene	ND		1.00	"	"	"	"	"	U
Styrene	ND		1.00	"	"	"	"	"	U

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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

GACO0425T050T001

4/25/2025 7:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0747-11 (Water) Origins Laboratory									
VOC by EPA 8260D									
tert-Butylbenzene	ND		1.00	ug/L	1	B5D2578	04/25/2025	04/27/2025	U
Tetrachloroethene	ND		1.00	"	"	"	"	"	U
Toluene	ND		1.00	"	"	"	"	"	U
trans-1,2-Dichloroethene	ND		1.00	"	"	"	"	"	U
trans-1,3-Dichloropropene	ND		1.00	"	"	"	"	"	U
Trichloroethene	ND		1.00	"	"	"	"	"	U
Trichlorofluoromethane	ND		1.00	"	"	"	"	"	U
Vinyl chloride	ND		1.00	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	111 %			70-130		"	"	"	
Surrogate: Toluene-d8	103 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	88.0 %			70-130		"	"	"	

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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 B5D2841 - EPA 3060A										
Blank (B5D2841-BLK1)					Prepared: 04/28/2025 Analyzed: 05/07/2025					
Hexavalent Chromium	ND	0.250	mg/kg							U
LCS (B5D2841-BS1)					Prepared: 04/28/2025 Analyzed: 05/08/2025					
Hexavalent Chromium	2.28	0.250	mg/kg	2.50		91.3	80-120			
Matrix Spike (B5D2841-MS1)					Source: E5D0747-01 Prepared: 04/28/2025 Analyzed: 05/08/2025					
Hexavalent Chromium	ND	0.246	mg/kg	2.46	ND		75-125			QM-14, U
Matrix Spike (B5D2841-MS2)					Source: E5D0747-01 Prepared: 04/28/2025 Analyzed: 05/08/2025					
Hexavalent Chromium	23.5	24.6	mg/kg	254	ND	9.24	75-125			QM-14, U
Matrix Spike Dup (B5D2841-MSD1)					Source: E5D0747-01 Prepared: 04/28/2025 Analyzed: 05/08/2025					
Hexavalent Chromium	ND	0.246	mg/kg	2.46	ND		75-125	200		QM-14, U
Post Spike (B5D2841-PS1)					Source: E5D0747-01 Prepared: 04/28/2025 Analyzed: 05/08/2025					
Hexavalent Chromium	51.4		ug/L	50.0	0.00	103	80-120			

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

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 B5D2708 - Saturated Paste Metals**Blank (B5D2708-BLK1)**

Prepared: 04/27/2025 Analyzed: 04/30/2025

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

Duplicate (B5D2708-DUP1)**Source: E5D0750-06**

Prepared: 04/27/2025 Analyzed: 04/30/2025

SAR	ND	0.0100	SAR	0.514				200		U
Calcium PPM	54.5	10.0	mg/L	62.6				13.8	50	
Magnesium PPM	14.2	10.0	"	18.5				26.9	50	
Sodium PPM	19.8	10.0	"	18.0				9.41	50	

Batch B5D2714 - DTPA Sorbitol Preparation**Blank (B5D2714-BLK1)**

Prepared: 04/27/2025 Analyzed: 04/30/2025

Boron	ND	0.100	mg/L							U
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Duplicate (B5D2714-DUP1)**Source: E5D0750-06**

Prepared: 04/27/2025 Analyzed: 04/30/2025

Boron	0.994	0.0983	mg/L	1.01				1.54	50	
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Origins Laboratory

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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

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 B5D2818 - EPA 3580**Blank (B5D2818-BLK1)**

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

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 (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
Pyrene	ND	0.020	"							U

Surrogate: Fluorene-d10	180		ug/kg	200		91.7	60-130
Surrogate: Anthracene-d10	200		"	200		99.2	60-130
Surrogate: Pyrene-d10	200		"	200		99.6	60-130
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.4	60-130

LCS (B5D2818-BS1)

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

1-Methylnaphthalene	0.189	0.002	mg/kg	0.200		94.3	70-130
2-Methylnaphthalene	0.187	0.002	"	0.200		93.6	70-130
Acenaphthene	0.203	0.020	"	0.200		101	70-130
Anthracene	0.175	0.020	"	0.200		87.4	70-130
Benzo (a) anthracene	0.226	0.005	"	0.200		113	70-130
Benzo (a) pyrene	0.214	0.020	"	0.200		107	70-130

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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 B5D2818 - EPA 3580**LCS (B5D2818-BS1)**

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

Benzo (b) fluoranthene	0.208	0.020	mg/kg	0.200		104	70-130
Benzo (k) fluoranthene	0.233	0.020	"	0.200		117	70-130
Chrysene	0.224	0.020	"	0.200		112	70-130
Dibenz (a,h) anthracene	0.230	0.020	"	0.200		115	70-130
Fluoranthene	0.210	0.020	"	0.200		105	70-130
Fluorene	0.192	0.020	"	0.200		96.0	70-130
Indeno (1,2,3-cd) pyrene	0.224	0.020	"	0.200		112	70-130
Naphthalene	0.202	0.002	"	0.200		101	70-130
Pyrene	0.216	0.020	"	0.200		108	70-130
Surrogate: Fluorene-d10	180		ug/kg	200		92.5	60-130
Surrogate: Anthracene-d10	190		"	200		93.9	60-130
Surrogate: Pyrene-d10	200		"	200		99.3	60-130
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.0	60-130

Matrix Spike (B5D2818-MS1)**Source: E5D0747-02**

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

1-Methylnaphthalene	0.204	0.002	mg/kg	0.200	ND	102	70-130
2-Methylnaphthalene	0.195	0.002	"	0.200	0.002	96.3	70-130
Acenaphthene	0.208	0.020	"	0.200	0.002	103	70-130
Anthracene	0.190	0.020	"	0.200	ND	94.8	70-130
Benzo (a) anthracene	0.212	0.005	"	0.200	ND	106	70-130
Benzo (a) pyrene	0.227	0.020	"	0.200	0.002	112	70-130
Benzo (b) fluoranthene	0.236	0.020	"	0.200	0.002	117	70-130
Benzo (k) fluoranthene	0.224	0.020	"	0.200	0.001	111	70-130
Chrysene	0.211	0.020	"	0.200	0.001	105	70-130
Dibenz (a,h) anthracene	0.241	0.020	"	0.200	0.0007	120	70-130
Fluoranthene	0.220	0.020	"	0.200	0.0006	110	70-130
Fluorene	0.193	0.020	"	0.200	0.0003	96.1	70-130

Origins Laboratory

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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

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 B5D2818 - EPA 3580**Matrix Spike (B5D2818-MS1)****Source: E5D0747-02**

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

Indeno (1,2,3-cd) pyrene	0.224	0.020	mg/kg	0.200	0.001	111	70-130
Naphthalene	0.214	0.002	"	0.200	ND	107	70-130
Pyrene	0.219	0.020	"	0.200	0.001	109	70-130
Surrogate: Fluorene-d10	190		ug/kg	200		92.9	60-130
Surrogate: Anthracene-d10	190		"	200		93.3	60-130
Surrogate: Pyrene-d10	200		"	200		97.9	60-130
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130

Matrix Spike Dup (B5D2818-MSD1)**Source: E5D0747-02**

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

1-Methylnaphthalene	0.190	0.002	mg/kg	0.200	ND	95.2	70-130	6.64	20
2-Methylnaphthalene	0.189	0.002	"	0.200	0.002	93.5	70-130	2.94	20
Acenaphthene	0.205	0.020	"	0.200	0.002	102	70-130	1.22	20
Anthracene	0.191	0.020	"	0.200	ND	95.3	70-130	0.521	20
Benzo (a) anthracene	0.230	0.005	"	0.200	ND	115	70-130	8.03	20
Benzo (a) pyrene	0.229	0.020	"	0.200	0.002	113	70-130	0.904	20
Benzo (b) fluoranthene	0.239	0.020	"	0.200	0.002	119	70-130	1.19	20
Benzo (k) fluoranthene	0.235	0.020	"	0.200	0.001	117	70-130	4.93	20
Chrysene	0.229	0.020	"	0.200	0.001	114	70-130	7.92	20
Dibenz (a,h) anthracene	0.242	0.020	"	0.200	0.0007	120	70-130	0.197	20
Fluoranthene	0.214	0.020	"	0.200	0.0006	107	70-130	2.74	20
Fluorene	0.190	0.020	"	0.200	0.0003	94.6	70-130	1.57	20
Indeno (1,2,3-cd) pyrene	0.219	0.020	"	0.200	0.001	109	70-130	2.03	20
Naphthalene	0.206	0.002	"	0.200	ND	103	70-130	3.80	20
Pyrene	0.218	0.020	"	0.200	0.001	108	70-130	0.682	20
Surrogate: Fluorene-d10	180		ug/kg	200		92.0	60-130		
Surrogate: Anthracene-d10	200		"	200		98.6	60-130		
Surrogate: Pyrene-d10	200		"	200		98.6	60-130		

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Jen Pellegrini For Jordan A. Bynon, Project Manager



CTEH

5120 North Shore Drive

North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: PROJ-054017

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5D2818 - EPA 3580

Matrix Spike Dup (B5D2818-MSD1)

Source: E5D0747-02

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

Surrogate: Benzo (a) pyrene-d12	210	ug/kg	200	104	60-130
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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
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Batch B5D2801 - EPA 3550B**Blank (B5D2801-BLK1)**

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

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	21		"	24.9		85.9	50-150			

LCS (B5D2801-BS1)

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

Diesel (C10-C28)	991	50.0	mg/kg	1000		99.1	70-130			
Residual Range Organics (C28-C40)	890	200	"	1000		89.0	70-130			
Surrogate: o-Terphenyl	44		"	49.8		88.5	50-150			

Matrix Spike (B5D2801-MS1)**Source: E5D0750-03**

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

Diesel (C10-C28)	1070	50.0	mg/kg	1000	ND	107	70-130			
Residual Range Organics (C28-C40)	967	200	"	1000	ND	96.7	70-130			
Surrogate: o-Terphenyl	45		"	49.8		91.4	50-150			

Matrix Spike Dup (B5D2801-MSD1)**Source: E5D0750-03**

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

Diesel (C10-C28)	1060	50.0	mg/kg	1000	ND	106	70-130	1.24	35	
Residual Range Organics (C28-C40)	959	200	"	1000	ND	95.9	70-130	0.856	35	
Surrogate: o-Terphenyl	45		"	49.8		91.4	50-150			

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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 B5D2701 - EPA 3050B**Blank (B5D2701-BLK1)**

Prepared: 04/27/2025 Analyzed: 04/28/2025

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

LCS (B5D2701-BS1)

Prepared: 04/27/2025 Analyzed: 04/29/2025

Arsenic	5.68	0.290	mg/kg	5.00		114	80-120			
Barium	581	10.0	"	500		116	80-120			
Cadmium	5.60	0.100	"	5.00		112	80-120			
Copper	57.4	10.0	"	50.0		115	80-120			
Lead	5.62	1.00	"	5.00		112	80-120			
Nickel	5.73	1.00	"	5.00		115	80-120			
Selenium	5.78	0.260	"	5.00		116	80-120			
Silver	5.74	0.100	"	5.00		115	80-120			
Zinc	57.5	37.0	"	50.0		115	80-120			

Matrix Spike (B5D2701-MS1)**Source: E5D0750-03**

Prepared: 04/27/2025 Analyzed: 04/28/2025

Arsenic	11.7	0.266	mg/kg	4.59	4.24	162	75-125			QM-07
Barium	643	9.17	"	459	64.4	126	75-125			QM-07
Cadmium	5.66	0.0917	"	4.59	0.151	120	75-125			
Copper	64.2	9.17	"	45.9	9.15	120	75-125			
Lead	13.6	0.917	"	4.59	6.81	149	75-125			QM-07

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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

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 B5D2701 - EPA 3050B**Matrix Spike (B5D2701-MS1)****Source: E5D0750-03**

Prepared: 04/27/2025 Analyzed: 04/28/2025

Nickel	14.2	0.917	mg/kg	4.59	6.41	169	75-125			QM-07
Selenium	5.56	0.238	"	4.59	0.316	114	75-125			
Silver	5.36	0.0917	"	4.59	0.00591	117	75-125			
Zinc	88.0	33.9	"	45.9	34.8	116	75-125			

Matrix Spike Dup (B5D2701-MSD1)**Source: E5D0750-03**

Prepared: 04/27/2025 Analyzed: 04/28/2025

Arsenic	10.4	0.267	mg/kg	4.61	4.24	133	75-125	12.0	20	QM-07
Barium	638	9.22	"	461	64.4	124	75-125	0.782	20	
Cadmium	5.59	0.0922	"	4.61	0.151	118	75-125	1.20	20	
Copper	62.5	9.22	"	46.1	9.15	116	75-125	2.71	20	
Lead	12.5	0.922	"	4.61	6.81	124	75-125	8.52	20	
Nickel	11.9	0.922	"	4.61	6.41	119	75-125	17.3	20	
Selenium	5.55	0.240	"	4.61	0.316	114	75-125	0.178	20	
Silver	5.23	0.0922	"	4.61	0.00591	113	75-125	2.63	20	
Zinc	85.8	34.1	"	46.1	34.8	111	75-125	2.44	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

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 B5D2720 - Saturated Paste pH/EC

Blank (B5D2720-BLK1)

Prepared: 04/27/2025 Analyzed: 04/29/2025

Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
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Duplicate (B5D2720-DUP1)

Source: E5D0750-06

Prepared: 04/27/2025 Analyzed: 04/29/2025

Specific Conductance (EC)	0.508	0.00500	mmhos/cm		0.562			10.1	25	
pH	8.08		pH Units		8.21			1.60	25	

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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 B5D2578 - EPA 5030B (Water)**Blank (B5D2578-BLK1)**

Prepared: 04/25/2025 Analyzed: 04/27/2025

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

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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 B5D2578 - EPA 5030B (Water)**Blank (B5D2578-BLK1)**

Prepared: 04/25/2025 Analyzed: 04/27/2025

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

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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 B5D2578 - EPA 5030B (Water)**Blank (B5D2578-BLK1)**

Prepared: 04/25/2025 Analyzed: 04/27/2025

n-Butylbenzene	ND	1.00	ug/L							U
n-Propylbenzene	ND	1.00	"							U
o-Xylene	ND	1.00	"							U
sec-Butylbenzene	ND	1.00	"							U
Styrene	ND	1.00	"							U
tert-Butylbenzene	ND	1.00	"							U
Tetrachloroethene	ND	1.00	"							U
Toluene	ND	1.00	"							U
trans-1,2-Dichloroethene	ND	1.00	"							U
trans-1,3-Dichloropropene	ND	1.00	"							U
Trichloroethene	ND	1.00	"							U
Trichlorofluoromethane	ND	1.00	"							U
Vinyl chloride	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		103	70-130			
Surrogate: Toluene-d8	65		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	70-130			

LCS (B5D2578-BS1)

Prepared: 04/25/2025 Analyzed: 04/27/2025

1,1,1,2-Tetrachloroethane	55.0	1.00	ug/L	50.0		110	70-130			
1,1,1-Trichloroethane	46.5	1.00	"	50.0		93.1	70-130			
1,1,2,2-Tetrachloroethane	52.8	1.00	"	50.0		106	70-130			
1,1,2-Trichloroethane	55.3	1.00	"	50.0		111	70-130			
1,1-Dichloroethane	49.2	1.00	"	50.0		98.3	70-130			
1,1-Dichloroethene	49.8	1.00	"	50.0		99.5	70-130			
1,1-Dichloropropene	52.5	1.00	"	50.0		105	70-130			
1,2,3-Trichlorobenzene	52.6	5.00	"	50.0		105	70-130			
1,2,3-Trichloropropane	47.5	5.00	"	50.0		95.0	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

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 B5D2578 - EPA 5030B (Water)**LCS (B5D2578-BS1)**

Prepared: 04/25/2025 Analyzed: 04/27/2025

1,2,4-Trichlorobenzene	53.2	5.00	ug/L	50.0		106	70-130			
1,2,4-Trimethylbenzene	51.6	1.00	"	50.0		103	70-130			
1,2-Dibromo-3-chloropropane	45.7	5.00	"	50.0		91.4	70-130			
1,2-Dibromoethane (EDB)	51.2	1.50	"	50.0		102	70-130			
1,2-Dichlorobenzene	53.0	1.00	"	50.0		106	70-130			
1,2-Dichloroethane	54.6	1.00	"	50.0		109	70-130			
1,2-Dichloropropane	52.0	1.00	"	50.0		104	70-130			
1,3,5-Trimethylbenzene	48.5	1.00	"	50.0		97.0	70-130			
1,3-Dichlorobenzene	48.8	1.00	"	50.0		97.5	70-130			
1,3-Dichloropropane	56.4	1.00	"	50.0		113	70-130			
1,4-Dichlorobenzene	53.8	1.00	"	50.0		108	70-130			
2,2-Dichloropropane	48.1	1.00	"	50.0		96.2	70-130			
2-Butanone	265	5.00	"	250		106	70-130			
2-Chlorotoluene	50.4	1.00	"	50.0		101	70-130			
2-Hexanone	251	6.00	"	250		100	70-130			
4-Chlorotoluene	50.7	1.00	"	50.0		101	70-130			
4-Isopropyltoluene	50.6	1.00	"	50.0		101	70-130			
4-Methyl-2-pentanone	253	5.00	"	250		101	70-130			
Acetone	282	8.00	"	250		113	70-130			
Benzene	53.0	1.00	"	50.0		106	70-130			
Bromobenzene	54.2	1.00	"	50.0		108	70-130			
Bromochloromethane	50.3	1.00	"	50.0		101	70-130			
Bromodichloromethane	50.2	1.00	"	50.0		100	70-130			
Bromoform	48.1	1.00	"	50.0		96.1	70-130			
Bromomethane	39.7	1.00	"	50.0		79.4	70-130			
Carbon disulfide	52.9	5.00	"	50.0		106	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

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 B5D2578 - EPA 5030B (Water)**LCS (B5D2578-BS1)**

Prepared: 04/25/2025 Analyzed: 04/27/2025

Carbon tetrachloride	45.9	1.00	ug/L	50.0		91.8	70-130			
Chlorobenzene	54.0	1.00	"	50.0		108	70-130			
Chloroethane	47.9	1.00	"	50.0		95.7	70-130			
Chloroform	52.0	1.00	"	50.0		104	70-130			
Chloromethane	43.1	1.00	"	50.0		86.2	70-130			
cis-1,2-Dichloroethene	50.4	1.00	"	50.0		101	70-130			
cis-1,3-Dichloropropene	56.0	1.00	"	50.0		112	70-130			
Dibromochloromethane	53.5	1.00	"	50.0		107	70-130			
Dibromomethane	50.1	1.00	"	50.0		100	70-130			
Ethylbenzene	52.9	1.00	"	50.0		106	70-130			
Hexachlorobutadiene	49.7	5.00	"	50.0		99.3	70-130			
Iodomethane	49.0	10.0	"	50.0		98.0	70-130			
Isopropylbenzene	52.4	1.00	"	50.0		105	70-130			
m,p-Xylene	105	2.00	"	100		105	70-130			
Methylene Chloride	51.4	15.0	"	50.0		103	70-130			
Methyl tert-Butyl Ether	52.1	1.00	"	50.0		104	70-130			
Naphthalene	48.6	4.00	"	50.0		97.2	70-130			
n-Butylbenzene	50.1	1.00	"	50.0		100	70-130			
n-Propylbenzene	50.0	1.00	"	50.0		100	70-130			
o-Xylene	53.9	1.00	"	50.0		108	70-130			
sec-Butylbenzene	50.3	1.00	"	50.0		101	70-130			
Styrene	51.9	1.00	"	50.0		104	70-130			
tert-Butylbenzene	47.5	1.00	"	50.0		94.9	70-130			
Tetrachloroethene	49.3	1.00	"	50.0		98.6	70-130			
Toluene	49.7	1.00	"	50.0		99.3	70-130			
trans-1,2-Dichloroethene	50.5	1.00	"	50.0		101	70-130			

Origins Laboratory

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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 B5D2578 - EPA 5030B (Water)**LCS (B5D2578-BS1)**

Prepared: 04/25/2025 Analyzed: 04/27/2025

trans-1,3-Dichloropropene	51.1	1.00	ug/L	50.0		102	70-130
Trichloroethene	51.1	1.00	"	50.0		102	70-130
Trichlorofluoromethane	48.5	1.00	"	50.0		97.1	70-130
Vinyl chloride	36.1	1.00	"	50.0		72.2	70-130
Surrogate: 1,2-Dichloroethane-d4	66		"	62.5		106	70-130
Surrogate: Toluene-d8	58		"	62.5		93.5	70-130
Surrogate: 4-Bromofluorobenzene	70		"	62.5		111	70-130

Matrix Spike (B5D2578-MS1)**Source: E5D0689-09**

Prepared: 04/25/2025 Analyzed: 04/27/2025

1,1,1,2-Tetrachloroethane	50.2	1.00	ug/L	50.0	ND	100	70-130
1,1,1-Trichloroethane	58.5	1.00	"	50.0	ND	117	70-130
1,1,2,2-Tetrachloroethane	44.4	1.00	"	50.0	ND	88.8	70-130
1,1,2-Trichloroethane	50.7	1.00	"	50.0	ND	101	70-130
1,1-Dichloroethane	61.2	1.00	"	50.0	ND	122	70-130
1,1-Dichloroethene	50.2	1.00	"	50.0	ND	100	70-130
1,1-Dichloropropene	54.0	1.00	"	50.0	ND	108	70-130
1,2,3-Trichlorobenzene	63.2	5.00	"	50.0	ND	126	70-130
1,2,3-Trichloropropane	44.3	5.00	"	50.0	ND	88.6	70-130
1,2,4-Trichlorobenzene	64.9	5.00	"	50.0	ND	130	70-130
1,2,4-Trimethylbenzene	51.4	1.00	"	50.0	ND	103	70-130
1,2-Dibromo-3-chloropropane	51.8	5.00	"	50.0	ND	104	70-130
1,2-Dibromoethane (EDB)	48.1	1.50	"	50.0	ND	96.1	70-130
1,2-Dichlorobenzene	51.1	1.00	"	50.0	ND	102	70-130
1,2-Dichloroethane	50.4	1.00	"	50.0	ND	101	70-130
1,2-Dichloropropane	49.2	1.00	"	50.0	ND	98.3	70-130
1,3,5-Trimethylbenzene	47.4	1.00	"	50.0	ND	94.8	70-130
1,3-Dichlorobenzene	47.5	1.00	"	50.0	ND	95.1	70-130

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Jen Pellegrini For Jordan A. Bynon, Project Manager



CTEH

5120 North Shore Drive

North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: PROJ-054017

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 B5D2578 - EPA 5030B (Water)**Matrix Spike (B5D2578-MS1)****Source: E5D0689-09**

Prepared: 04/25/2025 Analyzed: 04/27/2025

1,3-Dichloropropane	50.6	1.00	ug/L	50.0	ND	101	70-130			
1,4-Dichlorobenzene	51.3	1.00	"	50.0	ND	103	70-130			
2,2-Dichloropropane	67.4	1.00	"	50.0	ND	135	70-130			QM-07
2-Butanone	332	5.00	"	250	ND	133	70-130			QM-07
2-Chlorotoluene	46.5	1.00	"	50.0	ND	93.0	70-130			
2-Hexanone	213	6.00	"	250	ND	85.2	70-130			
4-Chlorotoluene	48.5	1.00	"	50.0	ND	96.9	70-130			
4-Isopropyltoluene	53.4	1.00	"	50.0	ND	107	70-130			
4-Methyl-2-pentanone	206	5.00	"	250	ND	82.3	70-130			
Acetone	260	8.00	"	250	22.2	95.1	70-130			
Benzene	53.4	1.00	"	50.0	ND	107	70-130			
Bromobenzene	47.0	1.00	"	50.0	ND	93.9	70-130			
Bromochloromethane	65.3	1.00	"	50.0	ND	131	70-130			QM-07
Bromodichloromethane	47.3	1.00	"	50.0	ND	94.6	70-130			
Bromoform	42.9	1.00	"	50.0	ND	85.7	70-130			
Bromomethane	37.4	1.00	"	50.0	ND	74.8	70-130			
Carbon disulfide	53.5	5.00	"	50.0	ND	107	70-130			
Carbon tetrachloride	49.6	1.00	"	50.0	ND	99.3	70-130			
Chlorobenzene	54.1	1.00	"	50.0	ND	108	70-130			
Chloroethane	44.6	1.00	"	50.0	ND	89.2	70-130			
Chloroform	66.2	1.00	"	50.0	ND	132	70-130			QM-07
Chloromethane	28.8	1.00	"	50.0	ND	57.7	70-130			QM-07
cis-1,2-Dichloroethene	68.6	1.00	"	50.0	ND	137	70-130			QM-07
cis-1,3-Dichloropropene	51.2	1.00	"	50.0	ND	102	70-130			
Dibromochloromethane	50.0	1.00	"	50.0	ND	100	70-130			
Dibromomethane	49.8	1.00	"	50.0	ND	99.6	70-130			

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Jen Pellegrini For Jordan A. Bynon, Project Manager



CTEH

5120 North Shore Drive

North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: PROJ-054017

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 B5D2578 - EPA 5030B (Water)**Matrix Spike (B5D2578-MS1)****Source: E5D0689-09**

Prepared: 04/25/2025 Analyzed: 04/27/2025

Ethylbenzene	49.4	1.00	ug/L	50.0	ND	98.8	70-130			
Hexachlorobutadiene	69.4	5.00	"	50.0	ND	139	70-130			QM-07
Iodomethane	51.2	10.0	"	50.0	ND	102	70-130			
Isopropylbenzene	52.3	1.00	"	50.0	ND	105	70-130			
m,p-Xylene	100	2.00	"	100	ND	100	70-130			
Methylene Chloride	48.1	15.0	"	50.0	ND	96.2	70-130			
Methyl tert-Butyl Ether	53.2	1.00	"	50.0	ND	106	70-130			
Naphthalene	59.0	4.00	"	50.0	ND	118	70-130			
n-Butylbenzene	52.5	1.00	"	50.0	ND	105	70-130			
n-Propylbenzene	49.2	1.00	"	50.0	ND	98.4	70-130			
o-Xylene	49.5	1.00	"	50.0	ND	99.0	70-130			
sec-Butylbenzene	52.3	1.00	"	50.0	ND	105	70-130			
Styrene	47.4	1.00	"	50.0	ND	94.9	70-130			
tert-Butylbenzene	48.1	1.00	"	50.0	ND	96.2	70-130			
Tetrachloroethene	53.3	1.00	"	50.0	ND	107	70-130			
Toluene	50.7	1.00	"	50.0	ND	101	70-130			
trans-1,2-Dichloroethene	60.8	1.00	"	50.0	ND	122	70-130			
trans-1,3-Dichloropropene	46.2	1.00	"	50.0	ND	92.5	70-130			
Trichloroethene	51.9	1.00	"	50.0	ND	104	70-130			
Trichlorofluoromethane	44.0	1.00	"	50.0	ND	88.1	70-130			
Vinyl chloride	30.7	1.00	"	50.0	ND	61.4	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.4	70-130			
Surrogate: Toluene-d8	58		"	62.5		93.1	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.5	70-130			

Matrix Spike Dup (B5D2578-MSD1)**Source: E5D0689-09**

Prepared: 04/25/2025 Analyzed: 04/27/2025

1,1,1,2-Tetrachloroethane	62.2	1.00	ug/L	50.0	ND	124	70-130	21.3	20	QR-02
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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 B5D2578 - EPA 5030B (Water)**Matrix Spike Dup (B5D2578-MSD1)****Source: E5D0689-09**

Prepared: 04/25/2025 Analyzed: 04/27/2025

1,1,1-Trichloroethane	49.1	1.00	ug/L	50.0	ND	98.2	70-130	17.4	20	
1,1,2,2-Tetrachloroethane	49.8	1.00	"	50.0	ND	99.7	70-130	11.6	20	
1,1,2-Trichloroethane	50.9	1.00	"	50.0	ND	102	70-130	0.354	20	
1,1-Dichloroethane	57.5	1.00	"	50.0	ND	115	70-130	6.22	20	
1,1-Dichloroethene	49.6	1.00	"	50.0	ND	99.3	70-130	1.20	20	
1,1-Dichloropropene	54.0	1.00	"	50.0	ND	108	70-130	0.0741	20	
1,2,3-Trichlorobenzene	58.3	5.00	"	50.0	ND	117	70-130	8.08	20	
1,2,3-Trichloropropane	48.6	5.00	"	50.0	ND	97.3	70-130	9.38	20	
1,2,4-Trichlorobenzene	57.8	5.00	"	50.0	ND	116	70-130	11.6	20	
1,2,4-Trimethylbenzene	52.8	1.00	"	50.0	ND	106	70-130	2.80	20	
1,2-Dibromo-3-chloropropane	48.5	5.00	"	50.0	ND	97.0	70-130	6.68	20	
1,2-Dibromoethane (EDB)	47.4	1.50	"	50.0	ND	94.8	70-130	1.38	20	
1,2-Dichlorobenzene	53.8	1.00	"	50.0	ND	108	70-130	5.13	20	
1,2-Dichloroethane	52.9	1.00	"	50.0	ND	106	70-130	4.96	20	
1,2-Dichloropropane	50.2	1.00	"	50.0	ND	100	70-130	2.07	20	
1,3,5-Trimethylbenzene	49.0	1.00	"	50.0	ND	98.1	70-130	3.46	20	
1,3-Dichlorobenzene	48.3	1.00	"	50.0	ND	96.6	70-130	1.57	20	
1,3-Dichloropropane	51.6	1.00	"	50.0	ND	103	70-130	2.06	20	
1,4-Dichlorobenzene	52.8	1.00	"	50.0	ND	106	70-130	2.88	20	
2,2-Dichloropropane	49.2	1.00	"	50.0	ND	98.4	70-130	31.2	20	QR-02
2-Butanone	245	5.00	"	250	ND	97.9	70-130	30.4	20	QR-02
2-Chlorotoluene	48.9	1.00	"	50.0	ND	97.8	70-130	5.01	20	
2-Hexanone	228	6.00	"	250	ND	91.3	70-130	6.91	20	
4-Chlorotoluene	49.0	1.00	"	50.0	ND	97.9	70-130	0.985	20	
4-Isopropyltoluene	54.2	1.00	"	50.0	ND	108	70-130	1.45	20	
4-Methyl-2-pentanone	221	5.00	"	250	ND	88.4	70-130	7.16	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 B5D2578 - EPA 5030B (Water)**Matrix Spike Dup (B5D2578-MSD1)****Source: E5D0689-09**

Prepared: 04/25/2025 Analyzed: 04/27/2025

Acetone	270	8.00	ug/L	250	22.2	99.2	70-130	3.85	20	
Benzene	53.2	1.00	"	50.0	ND	106	70-130	0.525	20	
Bromobenzene	48.4	1.00	"	50.0	ND	96.8	70-130	3.08	20	
Bromochloromethane	52.6	1.00	"	50.0	ND	105	70-130	21.6	20	QR-02
Bromodichloromethane	49.7	1.00	"	50.0	ND	99.4	70-130	4.97	20	
Bromoform	47.3	1.00	"	50.0	ND	94.6	70-130	9.80	20	
Bromomethane	35.0	1.00	"	50.0	ND	70.1	70-130	6.54	20	
Carbon disulfide	52.9	5.00	"	50.0	ND	106	70-130	1.13	20	
Carbon tetrachloride	49.6	1.00	"	50.0	ND	99.2	70-130	0.101	20	
Chlorobenzene	54.4	1.00	"	50.0	ND	109	70-130	0.645	20	
Chloroethane	39.3	1.00	"	50.0	ND	78.7	70-130	12.6	20	
Chloroform	50.1	1.00	"	50.0	ND	100	70-130	27.8	20	QR-02
Chloromethane	25.1	1.00	"	50.0	ND	50.3	70-130	13.7	20	QM-07
cis-1,2-Dichloroethene	49.1	1.00	"	50.0	ND	98.3	70-130	33.0	20	QR-02
cis-1,3-Dichloropropene	50.9	1.00	"	50.0	ND	102	70-130	0.666	20	
Dibromochloromethane	50.9	1.00	"	50.0	ND	102	70-130	1.70	20	
Dibromomethane	53.2	1.00	"	50.0	ND	106	70-130	6.55	20	
Ethylbenzene	58.7	1.00	"	50.0	ND	117	70-130	17.2	20	
Hexachlorobutadiene	58.7	5.00	"	50.0	ND	117	70-130	16.6	20	
Iodomethane	50.7	10.0	"	50.0	ND	101	70-130	0.923	20	
Isopropylbenzene	52.5	1.00	"	50.0	ND	105	70-130	0.400	20	
m,p-Xylene	128	2.00	"	100	ND	128	70-130	24.2	20	QR-02
Methylene Chloride	49.0	15.0	"	50.0	ND	98.1	70-130	1.96	20	
Methyl tert-Butyl Ether	48.8	1.00	"	50.0	ND	97.6	70-130	8.66	20	
Naphthalene	52.9	4.00	"	50.0	ND	106	70-130	10.9	20	
n-Butylbenzene	52.4	1.00	"	50.0	ND	105	70-130	0.134	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 B5D2578 - EPA 5030B (Water)**Matrix Spike Dup (B5D2578-MSD1)****Source: E5D0689-09**

Prepared: 04/25/2025 Analyzed: 04/27/2025

n-Propylbenzene	49.3	1.00	ug/L	50.0	ND	98.7	70-130	0.244	20	
o-Xylene	51.5	1.00	"	50.0	ND	103	70-130	3.94	20	
sec-Butylbenzene	53.6	1.00	"	50.0	ND	107	70-130	2.36	20	
Styrene	48.2	1.00	"	50.0	ND	96.5	70-130	1.71	20	
tert-Butylbenzene	49.5	1.00	"	50.0	ND	99.0	70-130	2.83	20	
Tetrachloroethene	47.6	1.00	"	50.0	ND	95.2	70-130	11.3	20	
Toluene	48.2	1.00	"	50.0	ND	96.4	70-130	5.07	20	
trans-1,2-Dichloroethene	49.1	1.00	"	50.0	ND	98.2	70-130	21.3	20	QR-02
trans-1,3-Dichloropropene	47.4	1.00	"	50.0	ND	94.8	70-130	2.46	20	
Trichloroethene	52.3	1.00	"	50.0	ND	105	70-130	0.691	20	
Trichlorofluoromethane	39.8	1.00	"	50.0	ND	79.6	70-130	10.2	20	
Vinyl chloride	28.4	1.00	"	50.0	ND	56.7	70-130	7.86	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		100	70-130			
Surrogate: Toluene-d8	55		"	62.5		87.9	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.9	70-130			

Batch B5D2601 - EPA 5030 (soil)**Blank (B5D2601-BLK1)**

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

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

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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 B5D2601 - EPA 5030 (soil)**Blank (B5D2601-BLK1)**

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

Surrogate: 1,2-Dichloroethane-d4	0.17		mg/kg	0.125		135	70-130			S-07
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		84.4	70-130			

LCS (B5D2601-BS1)

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

1,2,4-Trimethylbenzene	0.0967	0.00200	mg/kg	0.100		96.7	70-130			
1,3,5-Trimethylbenzene	0.0877	0.00200	"	0.100		87.7	70-130			
Benzene	0.105	0.00200	"	0.100		105	70-130			
Ethylbenzene	0.0896	0.00200	"	0.100		89.6	70-130			
Naphthalene	0.0943	0.00380	"	0.100		94.3	70-130			
Toluene	0.116	0.00200	"	0.100		116	70-130			
o-Xylene	0.0924	0.00200	"	0.100		92.4	70-130			
m,p-Xylene	0.185	0.00400	"	0.200		92.6	70-130			

Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.0	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		110	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.9	70-130			

Matrix Spike (B5D2601-MS1)**Source: E5D0747-01**

Prepared: 04/26/2025 Analyzed: 04/27/2025

1,2,4-Trimethylbenzene	0.0663	0.00200	mg/kg	0.100	ND	66.3	70-130			QM-07
1,3,5-Trimethylbenzene	0.0694	0.00200	"	0.100	ND	69.4	70-130			QM-07
Benzene	0.0824	0.00200	"	0.100	ND	82.4	70-130			
Ethylbenzene	0.0865	0.00200	"	0.100	ND	86.5	70-130			
Naphthalene	0.0399	0.00380	"	0.100	ND	39.9	70-130			QM-07
Toluene	0.0828	0.00200	"	0.100	ND	82.8	70-130			
o-Xylene	0.0848	0.00200	"	0.100	ND	84.8	70-130			
m,p-Xylene	0.170	0.00400	"	0.200	ND	85.1	70-130			

Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		108	70-130			
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Kyle Lawrence

Project Number: PROJ-054017

Project: PROJ-054017

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5D2601 - EPA 5030 (soil)**Matrix Spike (B5D2601-MS1)****Source: E5D0747-01**

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

Surrogate: Toluene-d8	0.10	mg/kg	0.125	81.3	70-130
Surrogate: 4-Bromofluorobenzene	0.13	"	0.125	101	70-130

Matrix Spike Dup (B5D2601-MSD1)**Source: E5D0747-01**

Prepared: 04/26/2025 Analyzed: 04/27/2025

1,2,4-Trimethylbenzene	0.0612	0.00200	mg/kg	0.100	ND	61.2	70-130	8.07	20	QM-07
1,3,5-Trimethylbenzene	0.0639	0.00200	"	0.100	ND	63.9	70-130	8.26	20	QM-07
Benzene	0.0834	0.00200	"	0.100	ND	83.4	70-130	1.16	20	
Ethylbenzene	0.0862	0.00200	"	0.100	ND	86.2	70-130	0.371	20	
Naphthalene	0.0318	0.00380	"	0.100	ND	31.8	70-130	22.6	20	QM-07
Toluene	0.0884	0.00200	"	0.100	ND	88.4	70-130	6.59	20	
o-Xylene	0.0854	0.00200	"	0.100	ND	85.4	70-130	0.799	20	
m,p-Xylene	0.170	0.00400	"	0.200	ND	85.1	70-130	0.0470	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.098		"	0.125		78.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.1	70-130			

Origins Laboratory

Jen Pellegrini For Jordan A. Bynon, Project Manager

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

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Kyle Lawrence

Project Number: PROJ-054017

Project: PROJ-054017

Notes and Definitions

U Sample is Non-Detect.

S-DUP Duplicate analysis confirmed surrogate failure due to matrix effects.

S-07 High surrogate in sample, however sample is non-detect. High surrogate indicates result values are biased high.

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.

I-01 Due to matrix interference, the sample cannot be accurately quantified. The reported result is qualitative.

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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