



CTEH

June 10, 2025

Kyle Lawrence

5120 North Shore Drive

North Little Rock AR 72118

Project Name - PROJ-054017

Project Number - PROJ-054017

Attached are your analytical results for PROJ-054017 received by Origins Laboratory May 16, 2025. This project is associated with Origins project number E5E0527-01.

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
GACO0515T084CRS009	E5E0527-01	Soil	May 15, 2025 8:20	05/16/2025 07:30
GACO0515T084CRS010	E5E0527-02	Soil	May 15, 2025 8:40	05/16/2025 07:30
GACO0515T084CRC010	E5E0527-03	Soil	May 15, 2025 8:40	05/16/2025 07:30
GACO0515T084CRS011	E5E0527-04	Soil	May 15, 2025 8:20	05/16/2025 07:30
GACO0515T084CRS012	E5E0527-05	Soil	May 15, 2025 8:40	05/16/2025 07:30
GACO0515T084CRS013	E5E0527-06	Soil	May 15, 2025 9:00	05/16/2025 07:30
GACO0515T084CRS014	E5E0527-07	Soil	May 15, 2025 9:15	05/16/2025 07:30
GACO0515T084CRT002	E5E0527-08	Water	May 15, 2025 7:00	05/16/2025 07:30
GACO0515T084CRS001	E5E0527-09	Soil	May 15, 2025 8:10	05/16/2025 07:30
GACO0515T084CRS002	E5E0527-10	Soil	May 15, 2025 8:20	05/16/2025 07:30
GACO0515T084CRS003	E5E0527-11	Soil	May 15, 2025 8:30	05/16/2025 07:30
GACO0515T084CRS004	E5E0527-12	Soil	May 15, 2025 8:40	05/16/2025 07:30
GACO0515T084CRS005	E5E0527-13	Soil	May 15, 2025 8:45	05/16/2025 07:30
GACO0515T084CRS006	E5E0527-14	Soil	May 15, 2025 9:00	05/16/2025 07:30

Origins Laboratory

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

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

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GACO0515T084CRS007	E5E0527-15	Soil	May 15, 2025 9:15	05/16/2025 07:30
GACO0515T084CRS008	E5E0527-16	Soil	May 15, 2025 9:25	05/16/2025 07:30
GACO0515T084CRS015	E5E0527-17	Soil	May 15, 2025 9:35	05/16/2025 07:30
GACO0515T084CRS016	E5E0527-18	Soil	May 15, 2025 9:40	05/16/2025 07:30
GACO0515T084CRS017	E5E0527-19	Soil	May 15, 2025 9:45	05/16/2025 07:30
GACO0515T084CRS018	E5E0527-20	Soil	May 15, 2025 10:00	05/16/2025 07:30
GACO0515T084CRT005	E5E0527-21	Water	May 15, 2025 7:00	05/16/2025 07:30

On 5/17/2025, Madelyn Klinkerman from CTEH contacted Jordan Bynon via email regarding E5E0527 requesting that full Table 915 analysis be added to GACO0515T084CRS008. Requested modifications to the chain of custody were made by Jordan Bynon on 5/19/2025 and modified chain of custody is included in the report with the original chain of custody.

Origins Laboratory

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Jen Pellegrini For Jordan A. Bynon, Project Manager

ORIGINS LABORATORY

CTEH
 5120 North Shore Drive
 North Little Rock AR 72118

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

E5E05027

Chain of Custody Record

Lab No: _____ Page: 1 of 3

Standard: _____ 3 Day: _____ 5 Day: _____ 1 Day: _____ Custom TAT: ASAP

Turn Around Time (rush by advanced notice only)

Sample Receipt Temp and Notes: 0.3 LCC (lab use only)

Matrix: A = Air S = Soil/Solid W = Water
 DW = Drinking Water P = Product O = Oil
 SD = Sediment T = Tissue WP = Waste
 WW = Wastewater X = Other

Preservatives: 0 = none
 1 = Na2SO3 2 = HCl 3 = HNO3 4 = H2SO4
 5 = NaOH 6 = Other

Sample Type:
 - Composite
 6 = Grab or Discrete
 B = Blank O = Other

Analysis Request: _____

Test Instructions / Comments: _____

ENTHALPY ANALYTICAL

Enthalpy Analytical - Denver
 1725 W. Elk Place, Denver, CO 80211
 Phone 303-433-1322

CUSTOMER INFORMATION

Company: CTEH
 Name: PROJ-054017 Bishop Loss of Containment
 Report To: Cherrise Bishop, Kyle Lawrence, Eric Carlin, Andrew
 Number: _____
 Email: _____
 Address: 5120 North Shore Dr, North Little Rock, AR 72118
 Site Name: Galeton, CO
 Phone: _____
 Global ID: _____
 Sampled By: *Colb Green Ladd*

PROJECT INFORMATION

Sample ID	Sampling Date	Sampling Time (24 hr)	Matrix	Type	Pres.	Cont. No.	Cont. Size	Initials
1	5/15/2025	8:20 S	G	B	2	4 oz	JA	X
2	5/15/2025	8:40 S	G	B	2	4 oz	JA	X
3	5/15/2025	8:40 S	G	B	2	4 oz	JA	X
4	5/15/2025	8:20 S	G	B	2	4 oz	CG	X
5	5/15/2025	8:40 S	G	B	2	4 oz	CG	X
6	5/15/2025	9:00 S	G	B	2	4 oz	CG	X
7	5/15/2025	9:15 S	G	B	2	4 oz	CG	X
8	5/15/2025	7:00 X	B	2	2	40 ml	JA	X
9								
10								

Signature: *Colb Green* Print Name: *Colb Green* Date / Time: 5/16/25 18:00

Relinquished By: _____ Company / Title: *Enviro Science Inc.*

Received By: *JMA* Date / Time: *5/16/25 7:30*

Relinquished By: _____

Received By: _____

Relinquished By: _____

Received By: _____

Origins Laboratory

Jen Pellegrini

Jen Pellegrini For Jordan A. Bynon, Project Manager

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ORIGINS LABORATORY

CTEH
 5120 North Shore Drive
 North Little Rock AR 72118

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

E56637

Turn Around Time (rush by advanced notice only)

Standard:	2 Day:	5 Day:	1 Day:	3 Day:	ASAP
Sample Receipt Temp and Notes: 1 = No S.O., 2 = HCl, 3 = H ₂ O ₂ , 4 = H ₂ SO ₄ , 5 = NaOH, 6 = Other (lab use only)					

1.411cc

Chain of Custody Record

Lab No: _____ Page: 2 of 3

Matrix: A = Air S = Soil/Solid W = Water
 DW = Drinking Water P = Product O = Oil
 SD = Sediment T = Tissue WP = Wipe
 WW = Wastewater X = Other

Sample Type:
 Composite
 Grab or Discrete
 Blank

PROJECT INFORMATION

Company: CTEH Name: PROJ-054017 Bishop Loss of Containment

Report To: Cheryl Bishop, Kyle Lawrence, Eric Collins, Andrew Hinchell, Tom McMillin, Madelyn Blakemore

Email: cheryl@cteh.com | kyle@cteh.com | eric@cteh.com | andrew@cteh.com | tom@cteh.com | madelyn@cteh.com

Address: 5120 Northshore Dr, North Little Rock, AR 72118

Phone: _____ Site Name: _____

Global ID: _____

Billing Instructions: ctehalp@montrose-env.com

Sampled By: Matthew Beck

Sample ID	Sampling Date	Sampling Time (24 hr)	Matrix	Type	Pres.	No.	Cont.	Site	Initials
1	5/15/2025	8:18S	G	0	2	4	OZ	MB	X
2	5/15/2025	8:28S	G	0	2	4	OZ	MB	X
3	5/15/2025	8:38S	G	0	2	4	OZ	MB	X
4	5/15/2025	8:48S	G	0	2	4	OZ	MB	X
5	5/15/2025	8:45S	G	0	2	4	OZ	MB	X
6	5/15/2025	9:00S	G	0	2	4	OZ	MB	X
7	5/15/2025	9:15S	G	0	2	4	OZ	MB	X
8	5/15/2025	9:25X	0	2	2	40	ML	MB	X
9									
10									

Analysis Request

minus Chromium VI

Table 915

• VOCs 83600

Test Instructions / Comments

Relinquished By: <u>Matthew Beck</u>	Print Name: <u>Matthew Beck</u>	Company / Title: <u>CTEH</u>	Date / Time: <u>5-15-25</u>
Received By: _____	Signature: <u>JMA</u>	Company / Title: <u>Enthalpy</u>	Date / Time: <u>5/16/25 7:30</u>
Relinquished By: _____	Print Name: _____	Company / Title: _____	Date / Time: _____
Received By: _____	Signature: _____	Company / Title: _____	Date / Time: _____
Relinquished By: _____	Print Name: _____	Company / Title: _____	Date / Time: _____
Received By: _____	Signature: _____	Company / Title: _____	Date / Time: _____

Origins Laboratory



Jen Pellegrini For Jordan A. Bynon, Project Manager

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ORIGINS LABORATORY

CTEH
 5120 North Shore Drive
 North Little Rock AR 72118

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

E5E05a7

Chain of Custody Record		Turn Around Time (push by advanced notice only)							
Lab No:	Page: 3 of 3	Standard:	3 Day / Custom TAT / ASAP						
ENTHALPY ANALYTICAL Enthalpy Analytical - Denver 1725 W. Elk Place, Denver, CO 80211 Phone: 303-433-1322		Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Water P = Product O = Oil SO = Sediment T = Tissue WP = Wipe WW = Wastewater X = Other	Sample Type: Composite Grab or Discrete Blank Other						
CUSTOMER INFORMATION Company: CTEH Report To: Sheron Blakey, Kyle Lawrence, Eric Coffin, Andrew Hensell, Tom McMillin, Macklyn Blakeman Email: sheron.blakey@montrose-env.com, kyle.lawrence@montrose-env.com, eric.coffin@montrose-env.com, andrew.hensell@montrose-env.com, tom.mcmillan@montrose-env.com, macklyn.blakeman@montrose-env.com Address: 5120 Northshore Dr, North Little Rock, AR 72114 Address: Galton, CO Site Name: Global ID: Sampled By: Matthew Beck		Analysis Request: Mucus Chromatography VOCs 8260D Table 915	Sample Receipt Temp and Notes: 1411cc (lab use only)						
PROJECT INFORMATION									
Name: PROJ-054017 Bishop, Loss of Containment Number: P.O. #: Address: Galton, CO Site Name: Global ID: Sampled By: Matthew Beck									
Sample ID	Sampling Date	Sampling Time (24hr)	Matrix	Type	Pres.	Cont. No.	Cont. Size	Initials	
1. (GAC08151084)CS015	5/15/2025	9:35 S	G	0	2	4	02	MB	
2. (GAC08151084)CS016	5/15/2025	9:40 S	G	0	2	4	02	MB	
3. (GAC08151084)CS017	5/15/2025	9:45 S	G	0	2	4	02	MB	
4. (GAC08151084)CS018	5/15/2025	10:00 S	G	0	2	4	02	MB	
5. (GAC08151084)CR1005	5/15/2025	7:00 X	B	2	2	4	02	MB	
6.									
7.									
8.									
9.									
10.									
Relinquished By: <i>Matthew Beck</i>		Signature: <i>Matthew Beck</i>		Print Name: Matthew Beck		Company/Title: CTEH		Date/Time: 5-15-25 1800	
Received By:		Signature: <i>JNA</i>		Print Name: JNA		Company/Title: Entalpy		Date/Time: 5/16/25 730	
Relinquished By:		Signature:		Print Name:		Company/Title:		Date/Time:	
Received By:		Signature:		Print Name:		Company/Title:		Date/Time:	
Relinquished By:		Signature:		Print Name:		Company/Title:		Date/Time:	
Received By:		Signature:		Print Name:		Company/Title:		Date/Time:	

Origins Laboratory

Jen Pellegrini

Jen Pellegrini For Jordan A. Bynon, Project Manager

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ORIGINS LABORATORY

CTEH
5120 North Shore Drive
North Little Rock AR 72118

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

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

Sample Receipt Checklist

Origins Work Order: ESE0527 Client: CTEH
 Checklist Completed by: JAB/JKA Client Project ID: proj-054017
 Date/time completed: 5/16/25 Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1103 °C (Describe)
 Thermometer ID: T007

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			*
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		<input checked="" type="checkbox"/>		
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCl, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input checked="" type="checkbox"/>			NC
Additional Comments (if any): <u>*Sample ESE0527-16 is written as a triphosphate, however it is a salt.</u>				

⁽¹⁾If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) JAB

Date/Time Reviewed 5/16/25

Origins Laboratory



Jen Pellegrini For Jordan A. Bynon, Project Manager

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ORIGINS LABORATORY

CTEH
 5120 North Shore Drive
 North Little Rock AR 72118

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

65E0527

Chain of Custody Record

Lab No: Page: 1 of 3

Turn Around Time (rush by advanced notice only)

Standard:	5 Day:	1 Day:	3 Day:	Custom TAT:	ASAP
Sample Receipt Temp and Notes: 0-3 (cc) ✓ (if use only)					

Matrix: A = Air S = Soil/Solid W = Water
 DW = Drinking Water P = Product O = Oil
 SD = Sediment T = Tissue WP = Waste
 WW = Wastewater X = Other

Sample Type: Composite
 G = Grab or Discrete
 B = Blank O = Other

Preservatives: 0 = none
 1 = Na-SO₂ 2 = HCl 3 = HNO₃
 4 = H₂SO₄ 5 = H₂O₂ 6 = Other

Analysis Request:
 Test Instructions / Comments:

CUSTOMER INFORMATION
 Company: CTEH
 Report To:
 Email:
 Address: 5120 Northshore Dr, North Little Rock, AR 72118
 Phone:
 Site Name:
 Global ID:
 Sampled by: Caleb Green Ladd

PROJECT INFORMATION
 Name: PROJ-054017 Bishopp Loss of Containment
 Number:
 P.O. #:
 Address:
 Site Name:
 Global ID:
 Sampled by: Caleb Green Ladd

Sample ID	Sampling Date	Sampling Time (24 hr)	Matrix	Type	Pres.	Cont. No.	Cont. Site	Initials
1	5/15/2025	8:28 S	G	B	2	4	OZ	JA
2	5/15/2025	8:40 S	G	B	2	4	OZ	JA
3	5/15/2025	8:48 S	G	B	2	4	OZ	JA
4	5/15/2025	8:28 S	G	B	2	4	OZ	CG
5	5/15/2025	8:48 S	G	B	2	4	OZ	CG
6	5/15/2025	9:00 S	G	B	2	4	OZ	CG
7	5/15/2025	9:15 S	G	B	2	4	OZ	CG
8	5/15/2025	7:00 X	B	2	2	48	ml	JA
9								
10								

Signature: Print Name: Caleb Green Company / Title: Enviro Science, Inc. Date / Time: 5/15/25 18:00
 Relinquished By: Received By: JMA Date / Time: 5/15/25 7:30
 Relinquished By: Received By: Date / Time:
 Relinquished By: Received By: Date / Time:

Origins Laboratory



Jen Pellegrini For Jordan A. Bynon, Project Manager

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ORIGINS LABORATORY

CTEH
 5120 North Shore Drive
 North Little Rock AR 72118

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

Rev: H1 MAK 05/17/2005

ES50837

Chain of Custody Record		Standards		Turn Around Time (rush by advanced notice only)					
Lab No:	Page:	3 Day:	5 Day:	1 Day:	ASAP:				
ENTHALPY ANALYTICAL	2 of 3								
Enthalpy Analytical - Denver 1725 W. Elk Place, Denver, CO 80211 Phone: 303-433-1322	Matrix: A = Air DW = Drinking Water SD = Sediment WW = Wastewater	S = Soil/Solid P = Product T = Tissue X = Other	W = Water O = Oil WP = Waste	Sample Type: Composite Grab or Discrete Blank	Preservatives: 0 = none 1 = Na2SO3 2 = HCl 3 = HNO3 4 = H2SO4 5 = NaOH 6 = Other	Sample Receipt Temp and Notes: 1.41°C			
CUSTOMER INFORMATION		PROJECT INFORMATION		Analysis Request					
Company: CTEH	Name: PROJ-054017	Bishop Loss of Containment		Text Instructions / Comments					
Report To: Cheryl Bishop, Kyle Lawrence, Eric Cully, Andrew Herrick, Tony McMillin, Maceleye Robinson	Number:								
Email: cheryl@cteh.com	P.O. #:								
Address: 5120 Northshore Dr, North Little Rock, AR 72118	Address: Golden, CO								
Phone:	Site Name:								
Phone:	Global ID:								
Billing Instruction: ctehp@montrose-env.com	Sampled By: Matthew Beck								
Sample ID	Sampling Date	Sampling Time (24hr)	Matrix	Type	Pres.	Vol.	Cont. Size	Initials	
1. GAC095151084CR081	5/15/2025	8:18 S	li	0	0	2	4.0Z	MB	
2. GAC095151084CR082	5/15/2025	8:20 S	G	0	0	2	4.0Z	MB	
3. GAC095151084CR083	5/15/2025	8:30 S	G	0	0	2	4.0Z	MB	
4. GAC095151084CR084	5/15/2025	8:40 S	G	0	0	2	4.0Z	MB	
5. GAC095151084CR085	5/15/2025	8:45 S	G	0	0	2	4.0Z	MB	
6. GAC095151084CR086	5/15/2025	9:00 S	G	0	0	2	4.0Z	MB	
7. GAC095151084CR087	5/15/2025	9:15 S	G	0	0	2	4.0Z	MB	
8. GAC095151084CR088	5/15/2025	9:25 S	G	0	0	2	4.0Z	MB	
9. WAC095151084CR089	5/15/2025	9:25 S	S	0	0	2	4.0Z	MB	
10. WAC095151084CR090	5/15/2025	9:25 S	S	0	0	2	4.0Z	MB	
Signature: Matthew Beck		Print Name: Matthew Beck		Company / Title: CTEH		Date / Time: 5-15-25		7:35	
Relinquished By:		Received By:		Relinquished By:		Received By:		Relinquished By:	
Matthew Beck		Matthew Beck		JMA		JMA		5/16/25 7:35	

Origins Laboratory

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Jen Pellegrini For Jordan A. Bynon, Project Manager

ORIGINS LABORATORY

CTEH
 5120 North Shore Drive
 North Little Rock AR 72118

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

5360827

Chain of Custody Record		Turn Around Time (rust by advanced notice only)						
Standard:	3 Day:	5 Day:	1 Day:					
	ASAP							
ENTHALPY ANALYTICAL Enthalpy Analytical - Denver 1775 W. Elk Place, Denver, CO 80211 Phone: 303-433-1322		Sample receipt: Temp and Notes: 1411cc (lab use only)						
Lab No: _____ Page: 3 of 3		Sample Type: Composite Grab or Discrete Blank Other						
Matrix: A = Air DW = Drinking Water SD = Sediment WW = Wastewater		C/Preservatives: 0 = none 1 = H ₂ SO ₄ 2 = HCl 3 = HNO ₃ 4 = H ₂ SO ₄ 5 = NaOH 6 = Other						
CUSTOMER INFORMATION Company: CTEH Report To: Chevron-Bishop, Mike Lawrence, Eric Camm, Andrew Herault, Tom McMillin, Markie Robinson Email: _____ Address: 5120 North Shore Dr, North Little Rock, AR 72118 Phone: _____ Site Name: _____ Global ID: _____ Billing Instructions: ctehap@montrose-env.com		PROJECT INFORMATION Name: PROJ-054017 Bishop Loss of Containment Number: _____ P.O. #: _____ Address: Solon, CO Site Name: _____ Global ID: _____ Sampled By: Matthew Beck						
ANALYSIS REQUEST Analysis Request: _____ Test Instructions / Comments: _____		YDCs: 8260D Table 915						
Sample ID	Sampling Date	Sampling Time (24hr)	Matrix	Type	Pres.	No.	Cont. Size	Cont. Inits
1. GAC0951510844CE0015	5/15/2025	9:35 S	G	B	0	2	4.02 MB	X
2. GAC0951510844CE0016	5/15/2025	9:40 S	G	B	0	2	4.02 MB	X
3. GAC0951510844CE0017	5/15/2025	9:45 S	G	B	0	2	4.02 MB	X
4. GAC0951510844CE0018	5/15/2025	10:00 S	G	B	0	2	4.02 MB	X
5. GAC0951510844CE0019	5/15/2025	7:00 X	B	2	2	40 mL	MB	X
6.								
7.								
8.								
9.								
10.								
Signature: _____ Print Name: Matthew Beck JMA		Company / Title: CTEH Entomology						
Date / Time: 5-15-25 1800 5/16/25 730								
Relinquished By: _____								
Received By: _____								
Relinquished By: _____								
Received By: _____								
Relinquished By: _____								
Received By: _____								

Origins Laboratory



Jen Pellegrini For Jordan A. Bynon, Project Manager

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CTEH
 5120 North Shore Drive
 North Little Rock AR 72118

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

GACO0515T084CRS009

5/15/2025 8:20:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0527-01 (Soil) Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	1.37		0.100	mg/L	1	B5E1614	05/16/2025	05/19/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E1602	05/16/2025	05/16/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	109 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E1603	05/16/2025	05/16/2025	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	97.0 %			70-130		"	"	"	
Surrogate: Toluene-d8	103 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	99.9 %			70-130		"	"	"	

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CTEH
 5120 North Shore Drive
 North Little Rock AR 72118

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

GACO0515T084CRS009

5/15/2025 8:20:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0527-01 (Soil)
 Origins Laboratory**

Metals by Saturated Paste by EPA 6010

Calcium	1.77		0.499	meq/L	10	[CALC]	05/16/2025	05/20/2025	
Magnesium	1.16		0.823	"	"	"	"	"	
Sodium	0.767		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E1631	05/16/2025	05/16/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

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

GACO0515T084CRS009

5/15/2025 8:20:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0527-01 (Soil)
 Origins Laboratory**

PAH by EPA 8270E extracted via 3580A

Surrogate: Fluorene-d10	99.6 %			60-130		B5E1631	05/16/2025	05/16/2025	
Surrogate: Anthracene-d10	100 %			60-130		"	"	"	
Surrogate: Pyrene-d10	99.0 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	99.5 %			60-130		"	"	"	

pH in Soil by 9045D

pH	8.07			pH Units	1	B5E1632	05/16/2025	05/20/2025	
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SAR by 20B Saturated Paste

SAR	0.633		0.0100	SAR	1	B5E1625	05/16/2025	05/20/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.832		0.00500	mmhos/cm	1	B5E1632	05/16/2025	05/20/2025	
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Table 915 metals by EPA 6020B

Arsenic	3.74		0.267	mg/kg	10	B5E1609	05/16/2025	05/19/2025	
Barium	ND		75.4	"	"	"	"	"	U
Cadmium	ND		0.349	"	"	"	"	"	U
Copper	ND		42.3	"	"	"	"	"	U
Lead	ND		12.9	"	"	"	"	"	U

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

GACO0515T084CRS009

5/15/2025 8:20:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0527-01 (Soil)
 Origins Laboratory**

Table 915 metals by EPA 6020B

Nickel	ND		23.9	mg/kg	10	B5E1609	05/16/2025	05/19/2025	U
Selenium	ND		0.239	"	"	"	"	"	U
Silver	ND		0.736	"	"	"	"	"	U
Zinc	ND		340	"	"	"	"	"	U

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GACO0515T084CRS010

5/15/2025 8:40:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0527-02 (Soil) Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	1.56		0.100	mg/L	1	B5E1614	05/16/2025	05/19/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E1602	05/16/2025	05/16/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	103 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E1603	05/16/2025	05/16/2025	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	97.6 %			70-130		"	"	"	
Surrogate: Toluene-d8	103 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	98.5 %			70-130		"	"	"	

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Kyle Lawrence
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 Project: PROJ-054017

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5/15/2025 8:40:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0527-02 (Soil)
 Origins Laboratory**

Metals by Saturated Paste by EPA 6010

Calcium	2.39		0.499	meq/L	10	[CALC]	05/16/2025	05/20/2025	
Magnesium	1.18		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E1631	05/16/2025	05/16/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U

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5/15/2025 8:40:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0527-02 (Soil)
 Origins Laboratory**

PAH by EPA 8270E extracted via 3580A

Pyrene	ND		0.020	mg/kg	1	B5E1631	05/16/2025	05/16/2025	U
Surrogate: Fluorene-d10	100 %			60-130		"	"	"	
Surrogate: Anthracene-d10	100 %			60-130		"	"	"	
Surrogate: Pyrene-d10	98.1 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	96.8 %			60-130		"	"	"	

pH in Soil by 9045D

pH	7.86			pH Units	1	B5E1632	05/16/2025	05/20/2025	
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SAR by 20B Saturated Paste

SAR	0.174		0.0100	SAR	1	B5E1625	05/16/2025	05/20/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.532		0.00500	mmhos/cm	1	B5E1632	05/16/2025	05/20/2025	
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Table 915 metals by EPA 6020B

Arsenic	3.18		0.288	mg/kg	10	B5E1609	05/16/2025	05/19/2025	
Barium	ND		81.3	"	"	"	"	"	U
Cadmium	ND		0.377	"	"	"	"	"	U
Copper	ND		45.6	"	"	"	"	"	U

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Kyle Lawrence
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GACO0515T084CRS010

5/15/2025 8:40:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0527-02 (Soil)
 Origins Laboratory**

Table 915 metals by EPA 6020B

Lead	ND		13.9	mg/kg	10	B5E1609	05/16/2025	05/19/2025	U
Nickel	ND		25.8	"	"	"	"	"	U
Selenium	0.299		0.258	"	"	"	"	"	U
Silver	ND		0.793	"	"	"	"	"	U
Zinc	ND		367	"	"	"	"	"	U

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Kyle Lawrence
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GACO0515T084CRC010

5/15/2025 8:40:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0527-03 (Soil) Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	1.51		0.0999	mg/L	1	B5E1614	05/16/2025	05/19/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E1602	05/16/2025	05/16/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	105 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E1603	05/16/2025	05/16/2025	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	99.9 %			70-130		"	"	"	
Surrogate: Toluene-d8	104 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	99.6 %			70-130		"	"	"	

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Kyle Lawrence
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 Project: PROJ-054017

GACO0515T084CRC010

5/15/2025 8:40:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0527-03 (Soil)
 Origins Laboratory**

Metals by Saturated Paste by EPA 6010

Calcium	1.93		0.499	meq/L	10	[CALC]	05/16/2025	05/20/2025	
Magnesium	0.969		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E1631	05/16/2025	05/16/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U

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Kyle Lawrence
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GACO0515T084CRC010

5/15/2025 8:40:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0527-03 (Soil)
 Origins Laboratory**

PAH by EPA 8270E extracted via 3580A

Pyrene	ND		0.020	mg/kg	1	B5E1631	05/16/2025	05/16/2025	U
Surrogate: Fluorene-d10	99.7 %			60-130		"	"	"	
Surrogate: Anthracene-d10	102 %			60-130		"	"	"	
Surrogate: Pyrene-d10	98.2 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	101 %			60-130		"	"	"	

pH in Soil by 9045D

pH	8.13			pH Units	1	B5E1632	05/16/2025	05/20/2025	
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SAR by 20B Saturated Paste

SAR	0.170		0.0100	SAR	1	B5E1625	05/16/2025	05/20/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.418		0.00500	mmhos/cm	1	B5E1632	05/16/2025	05/20/2025	
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Table 915 metals by EPA 6020B

Arsenic	3.23		0.262	mg/kg	10	B5E1609	05/16/2025	05/19/2025	
Barium	ND		74.0	"	"	"	"	"	U
Cadmium	ND		0.343	"	"	"	"	"	U
Copper	ND		41.5	"	"	"	"	"	U

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5/15/2025 8:40:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0527-03 (Soil)
 Origins Laboratory**

Table 915 metals by EPA 6020B

Lead	ND		12.6	mg/kg	10	B5E1609	05/16/2025	05/19/2025	U
Nickel	ND		23.5	"	"	"	"	"	U
Selenium	0.247		0.235	"	"	"	"	"	U
Silver	ND		0.722	"	"	"	"	"	U
Zinc	ND		334	"	"	"	"	"	U

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5/15/2025 8:20:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0527-04 (Soil) Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	1.70		0.100	mg/L	1	B5E1614	05/16/2025	05/19/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E1602	05/16/2025	05/16/2025	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	B5E1603	05/16/2025	05/16/2025	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	98.2 %			70-130		"	"	"	
Surrogate: Toluene-d8	107 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	106 %			70-130		"	"	"	

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5/15/2025 8:20:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0527-04 (Soil)
 Origins Laboratory**

Metals by Saturated Paste by EPA 6010

Calcium	5.65		0.499	meq/L	10	[CALC]	05/16/2025	05/20/2025	
Magnesium	4.52		0.823	"	"	"	"	"	
Sodium	0.637		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E1631	05/16/2025	05/16/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

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Jen Pellegrini For Jordan A. Bynon, Project Manager



CTEH
 5120 North Shore Drive
 North Little Rock AR 72118

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

GACO0515T084CRS011
5/15/2025 8:20:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0527-04 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Surrogate: Fluorene-d10	101 %			60-130		B5E1631	05/16/2025	05/16/2025	
Surrogate: Anthracene-d10	101 %			60-130		"	"	"	
Surrogate: Pyrene-d10	96.0 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	104 %			60-130		"	"	"	

pH in Soil by 9045D

pH	7.99			pH Units	1	B5E1632	05/16/2025	05/20/2025	
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SAR by 20B Saturated Paste

SAR	0.282		0.0100	SAR	1	B5E1625	05/16/2025	05/20/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.49		0.00500	mmhos/cm	1	B5E1632	05/16/2025	05/20/2025	
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Table 915 metals by EPA 6020B

Arsenic	2.83		0.246	mg/kg	10	B5E1609	05/16/2025	05/19/2025	
Barium	ND		69.5	"	"	"	"	"	U
Cadmium	ND		0.322	"	"	"	"	"	U
Copper	ND		39.0	"	"	"	"	"	U
Lead	ND		11.9	"	"	"	"	"	U

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Kyle Lawrence
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 Project: PROJ-054017

GACO0515T084CRS011

5/15/2025 8:20:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0527-04 (Soil)
 Origins Laboratory**

Table 915 metals by EPA 6020B

Nickel	ND		22.0	mg/kg	10	B5E1609	05/16/2025	05/19/2025	U
Selenium	ND		0.220	"	"	"	"	"	U
Silver	ND		0.678	"	"	"	"	"	U
Zinc	ND		313	"	"	"	"	"	U

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GACO0515T084CRS012

5/15/2025 8:40:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0527-05 (Soil) Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	1.38		0.100	mg/L	1	B5E1614	05/16/2025	05/19/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E1602	05/16/2025	05/16/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	107 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E1603	05/16/2025	05/16/2025	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	98.2 %			70-130		"	"	"	
Surrogate: Toluene-d8	104 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	99.6 %			70-130		"	"	"	

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Kyle Lawrence
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 Project: PROJ-054017

GACO0515T084CRS012

5/15/2025 8:40:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0527-05 (Soil)
 Origins Laboratory**

Metals by Saturated Paste by EPA 6010

Calcium	2.04		0.499	meq/L	10	[CALC]	05/16/2025	05/20/2025	
Magnesium	1.15		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E1631	05/16/2025	05/16/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U

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Kyle Lawrence
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 Project: PROJ-054017

GACO0515T084CRS012

5/15/2025 8:40:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0527-05 (Soil)
 Origins Laboratory**

PAH by EPA 8270E extracted via 3580A

Pyrene	ND		0.020	mg/kg	1	B5E1631	05/16/2025	05/16/2025	U
Surrogate: Fluorene-d10	100 %			60-130		"	"	"	
Surrogate: Anthracene-d10	100 %			60-130		"	"	"	
Surrogate: Pyrene-d10	96.8 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	101 %			60-130		"	"	"	

pH in Soil by 9045D

pH	7.89			pH Units	1	B5E1632	05/16/2025	05/20/2025	
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SAR by 20B Saturated Paste

SAR	0.250		0.0100	SAR	1	B5E1625	05/16/2025	05/20/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.553		0.00500	mmhos/cm	1	B5E1632	05/16/2025	05/20/2025	
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Table 915 metals by EPA 6020B

Arsenic	7.41		0.259	mg/kg	10	B5E1609	05/16/2025	05/19/2025	
Barium	ND		73.2	"	"	"	"	"	U
Cadmium	ND		0.339	"	"	"	"	"	U
Copper	ND		41.1	"	"	"	"	"	U

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5/15/2025 8:40:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0527-05 (Soil)
 Origins Laboratory**

Table 915 metals by EPA 6020B

Lead	ND		12.5	mg/kg	10	B5E1609	05/16/2025	05/19/2025	U
Nickel	ND		23.2	"	"	"	"	"	U
Selenium	ND		0.232	"	"	"	"	"	U
Silver	ND		0.715	"	"	"	"	"	U
Zinc	ND		330	"	"	"	"	"	U

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GACO0515T084CRS013

5/15/2025 9:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0527-06 (Soil) Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.612		0.0995	mg/L	1	B5E1614	05/16/2025	05/19/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E1602	05/16/2025	05/16/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	105 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E1603	05/16/2025	05/16/2025	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	97.9 %			70-130		"	"	"	
Surrogate: Toluene-d8	103 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	98.6 %			70-130		"	"	"	

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Kyle Lawrence
 Project Number: PROJ-054017
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GACO0515T084CRS013

5/15/2025 9:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0527-06 (Soil)
 Origins Laboratory**

Metals by Saturated Paste by EPA 6010

Calcium	1.29		0.499	meq/L	10	[CALC]	05/16/2025	05/20/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E1631	05/16/2025	05/16/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U

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 North Little Rock AR 72118

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

GACO0515T084CRS013
5/15/2025 9:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0527-06 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Pyrene	ND		0.020	mg/kg	1	B5E1631	05/16/2025	05/16/2025	U
Surrogate: Fluorene-d10	100 %			60-130		"	"	"	
Surrogate: Anthracene-d10	101 %			60-130		"	"	"	
Surrogate: Pyrene-d10	98.0 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	100 %			60-130		"	"	"	

pH in Soil by 9045D

pH	8.12			pH Units	1	B5E1632	05/16/2025	05/20/2025	
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SAR by 20B Saturated Paste

SAR	0.184		0.0100	SAR	1	B5E1625	05/16/2025	05/20/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.307		0.00500	mmhos/cm	1	B5E1632	05/16/2025	05/20/2025	
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Table 915 metals by EPA 6020B

Arsenic	3.73		0.281	mg/kg	10	B5E1609	05/16/2025	05/19/2025	
Barium	ND		79.4	"	"	"	"	"	U
Cadmium	ND		0.368	"	"	"	"	"	U
Copper	ND		44.5	"	"	"	"	"	U

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GACO0515T084CRS013
5/15/2025 9:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0527-06 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Lead	ND		13.6	mg/kg	10	B5E1609	05/16/2025	05/19/2025	U
Nickel	ND		25.2	"	"	"	"	"	U
Selenium	ND		0.252	"	"	"	"	"	U
Silver	ND		0.774	"	"	"	"	"	U
Zinc	ND		358	"	"	"	"	"	U

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5/15/2025 9:15:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0527-07 (Soil) Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.499		0.0995	mg/L	1	B5E1614	05/16/2025	05/19/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E1602	05/16/2025	05/16/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	107 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E1603	05/16/2025	05/16/2025	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	97.6 %			70-130		"	"	"	
Surrogate: Toluene-d8	104 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	98.5 %			70-130		"	"	"	

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5/15/2025 9:15:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0527-07 (Soil)
 Origins Laboratory**

Metals by Saturated Paste by EPA 6010

Calcium	1.29		0.499	meq/L	10	[CALC]	05/16/2025	05/20/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E1631	05/16/2025	05/16/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U

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 Project: PROJ-054017

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5/15/2025 9:15:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0527-07 (Soil)
 Origins Laboratory**

PAH by EPA 8270E extracted via 3580A

Pyrene	ND		0.020	mg/kg	1	B5E1631	05/16/2025	05/16/2025	U
Surrogate: Fluorene-d10	100 %			60-130		"	"	"	
Surrogate: Anthracene-d10	101 %			60-130		"	"	"	
Surrogate: Pyrene-d10	98.4 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	98.8 %			60-130		"	"	"	

pH in Soil by 9045D

pH	8.05			pH Units	1	B5E1632	05/16/2025	05/20/2025	
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SAR by 20B Saturated Paste

SAR	0.193		0.0100	SAR	1	B5E1625	05/16/2025	05/20/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.350		0.00500	mmhos/cm	1	B5E1632	05/16/2025	05/20/2025	
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Table 915 metals by EPA 6020B

Arsenic	2.97		0.268	mg/kg	10	B5E1609	05/16/2025	05/19/2025	
Barium	ND		75.9	"	"	"	"	"	U
Cadmium	ND		0.352	"	"	"	"	"	U
Copper	ND		42.6	"	"	"	"	"	U

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North Little Rock AR 72118

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

GACO0515T084CRS014

5/15/2025 9:15:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0527-07 (Soil)
Origins Laboratory**

Table 915 metals by EPA 6020B

Lead	ND		13.0	mg/kg	10	B5E1609	05/16/2025	05/19/2025	U
Nickel	ND		24.1	"	"	"	"	"	U
Selenium	ND		0.241	"	"	"	"	"	U
Silver	ND		0.740	"	"	"	"	"	U
Zinc	ND		342	"	"	"	"	"	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

GACO0515T084CRT002

5/15/2025 7:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0527-08 (Water) Origins Laboratory									
VOC by EPA 8260D									
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L	1	B5E1701	05/17/2025	05/17/2025	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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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

GACO0515T084CRT002

5/15/2025 7:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0527-08 (Water) Origins Laboratory									
VOC by EPA 8260D									
1,4-Dichlorobenzene	ND		1.00	ug/L	1	B5E1701	05/17/2025	05/17/2025	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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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

GACO0515T084CRT002

5/15/2025 7:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0527-08 (Water) Origins Laboratory									
VOC by EPA 8260D									
Chloroform	ND		1.00	ug/L	1	B5E1701	05/17/2025	05/17/2025	U
Chloromethane	ND		1.00	"	"	"	"	"	U
cis-1,2-Dichloroethene	ND		1.00	"	"	"	"	"	U
cis-1,3-Dichloropropene	ND		1.00	"	"	"	"	"	U
Dibromochloromethane	ND		1.00	"	"	"	"	"	U
Dibromomethane	ND		1.00	"	"	"	"	"	U
Ethylbenzene	ND		1.00	"	"	"	"	"	U
Hexachlorobutadiene	ND		5.00	"	"	"	"	"	U
Iodomethane	ND		10.0	"	"	"	"	"	U
Isopropylbenzene	ND		1.00	"	"	"	"	"	U
Methylene Chloride	ND		15.0	"	"	"	"	"	U
Methyl tert-Butyl Ether	ND		1.00	"	"	"	"	"	U
Naphthalene	ND		4.00	"	"	"	"	"	U
n-Butylbenzene	ND		1.00	"	"	"	"	"	U
n-Propylbenzene	ND		1.00	"	"	"	"	"	U
sec-Butylbenzene	ND		1.00	"	"	"	"	"	U
Styrene	ND		1.00	"	"	"	"	"	U
tert-Butylbenzene	ND		1.00	"	"	"	"	"	U
Tetrachloroethene	ND		1.00	"	"	"	"	"	U

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CTEH
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 North Little Rock AR 72118

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

GACO0515T084CRT002

5/15/2025 7:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0527-08 (Water)
 Origins Laboratory**

VOC by EPA 8260D

Toluene	ND		1.00	ug/L	1	B5E1701	05/17/2025	05/17/2025	U
trans-1,2-Dichloroethene	ND		1.00	"	"	"	"	"	U
trans-1,3-Dichloropropene	ND		1.00	"	"	"	"	"	U
Trichloroethene	ND		1.00	"	"	"	"	"	U
Trichlorofluoromethane	ND		1.00	"	"	"	"	"	U
Vinyl chloride	ND		1.00	"	"	"	"	"	U
o-Xylene	ND		1.00	"	"	"	"	"	U
m,p-Xylene	ND		2.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	92.7 %				70-130	"	"	"	
Surrogate: Toluene-d8	104 %				70-130	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.6 %				70-130	"	"	"	

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Kyle Lawrence
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 Project: PROJ-054017

GACO0515T084CRS001

5/15/2025 8:10:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0527-09 (Soil) Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	1.35		0.0997	mg/L	1	B5E1614	05/16/2025	05/19/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E1602	05/16/2025	05/16/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	110 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E1603	05/16/2025	05/16/2025	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	99.9 %			70-130		"	"	"	
Surrogate: Toluene-d8	103 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	99.8 %			70-130		"	"	"	

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

GACO0515T084CRS001

5/15/2025 8:10:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0527-09 (Soil)
 Origins Laboratory**

Metals by Saturated Paste by EPA 6010

Calcium	3.36		0.499	meq/L	10	[CALC]	05/16/2025	05/20/2025	
Magnesium	1.79		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E1631	05/16/2025	05/16/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U

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 North Little Rock AR 72118

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

GACO0515T084CRS001

5/15/2025 8:10:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0527-09 (Soil)
 Origins Laboratory**

PAH by EPA 8270E extracted via 3580A

Pyrene	ND		0.020	mg/kg	1	B5E1631	05/16/2025	05/16/2025	U
Surrogate: Fluorene-d10	101 %			60-130		"	"	"	
Surrogate: Anthracene-d10	100 %			60-130		"	"	"	
Surrogate: Pyrene-d10	96.5 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	101 %			60-130		"	"	"	

pH in Soil by 9045D

pH	8.19			pH Units	1	B5E1632	05/16/2025	05/20/2025	
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SAR by 20B Saturated Paste

SAR	0.211		0.0100	SAR	1	B5E1625	05/16/2025	05/20/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.780		0.00500	mmhos/cm	1	B5E1632	05/16/2025	05/20/2025	
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Table 915 metals by EPA 6020B

Arsenic	5.66		0.272	mg/kg	10	B5E1609	05/16/2025	05/19/2025	
Barium	91.0		77.0	"	"	"	"	"	
Cadmium	ND		0.357	"	"	"	"	"	U
Copper	ND		43.2	"	"	"	"	"	U

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

GACO0515T084CRS001

5/15/2025 8:10:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0527-09 (Soil)
 Origins Laboratory**

Table 915 metals by EPA 6020B

Lead	ND		13.2	mg/kg	10	B5E1609	05/16/2025	05/19/2025	U
Nickel	ND		24.4	"	"	"	"	"	U
Selenium	0.261		0.244	"	"	"	"	"	U
Silver	ND		0.752	"	"	"	"	"	U
Zinc	ND		348	"	"	"	"	"	U

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

GACO0515T084CRS002

5/15/2025 8:20:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0527-10 (Soil) Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.863		0.100	mg/L	1	B5E1614	05/16/2025	05/19/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E1602	05/16/2025	05/16/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	110 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E1603	05/16/2025	05/16/2025	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	97.4 %			70-130		"	"	"	
Surrogate: Toluene-d8	104 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	99.7 %			70-130		"	"	"	

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 North Little Rock AR 72118

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

GACO0515T084CRS002
5/15/2025 8:20:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0527-10 (Soil)
Origins Laboratory

Metals by Saturated Paste by EPA 6010

Calcium	1.46		0.499	meq/L	10	[CALC]	05/16/2025	05/20/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E1631	05/16/2025	05/16/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U

Origins Laboratory

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CTEH
 5120 North Shore Drive
 North Little Rock AR 72118

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

GACO0515T084CRS002

5/15/2025 8:20:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0527-10 (Soil)
 Origins Laboratory**

PAH by EPA 8270E extracted via 3580A

Pyrene	ND		0.020	mg/kg	1	B5E1631	05/16/2025	05/16/2025	U
Surrogate: Fluorene-d10	101 %			60-130		"	"	"	
Surrogate: Anthracene-d10	99.5 %			60-130		"	"	"	
Surrogate: Pyrene-d10	97.5 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	98.5 %			60-130		"	"	"	

pH in Soil by 9045D

pH	8.21			pH Units	1	B5E1632	05/16/2025	05/20/2025	
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SAR by 20B Saturated Paste

SAR	0.342		0.0100	SAR	1	B5E1625	05/16/2025	05/20/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.466		0.00500	mmhos/cm	1	B5E1632	05/16/2025	05/20/2025	
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Table 915 metals by EPA 6020B

Arsenic	4.34		0.280	mg/kg	10	B5E1609	05/16/2025	05/19/2025	
Barium	80.3		79.1	"	"	"	"	"	
Cadmium	ND		0.366	"	"	"	"	"	U
Copper	ND		44.4	"	"	"	"	"	U

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 North Little Rock AR 72118

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

GACO0515T084CRS002

5/15/2025 8:20:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0527-10 (Soil)
 Origins Laboratory**

Table 915 metals by EPA 6020B

Lead	ND		13.5	mg/kg	10	B5E1609	05/16/2025	05/19/2025	U
Nickel	ND		25.1	"	"	"	"	"	U
Selenium	ND		0.251	"	"	"	"	"	U
Silver	ND		0.771	"	"	"	"	"	U
Zinc	ND		357	"	"	"	"	"	U

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CTEH
 5120 North Shore Drive
 North Little Rock AR 72118

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

GACO0515T084CRS003

5/15/2025 8:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0527-11 (Soil) Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	1.13		0.100	mg/L	1	B5E1614	05/16/2025	05/19/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E1602	05/16/2025	05/16/2025	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	B5E1603	05/16/2025	05/16/2025	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	97.6 %			70-130		"	"	"	
Surrogate: Toluene-d8	104 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	99.1 %			70-130		"	"	"	

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CTEH
 5120 North Shore Drive
 North Little Rock AR 72118

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

GACO0515T084CRS003

5/15/2025 8:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0527-11 (Soil)
 Origins Laboratory**

Metals by Saturated Paste by EPA 6010

Calcium	1.37		0.499	meq/L	10	[CALC]	05/16/2025	05/20/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.545		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E1631	05/16/2025	05/16/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U

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 North Little Rock AR 72118

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

GACO0515T084CRS003

5/15/2025 8:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0527-11 (Soil)
 Origins Laboratory**

PAH by EPA 8270E extracted via 3580A

Pyrene	ND		0.020	mg/kg	1	B5E1631	05/16/2025	05/16/2025	U
Surrogate: Fluorene-d10	101 %			60-130		"	"	"	
Surrogate: Anthracene-d10	101 %			60-130		"	"	"	
Surrogate: Pyrene-d10	98.4 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	101 %			60-130		"	"	"	

pH in Soil by 9045D

pH	8.29			pH Units	1	B5E1632	05/16/2025	05/20/2025	
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SAR by 20B Saturated Paste

SAR	0.543		0.0100	SAR	1	B5E1625	05/16/2025	05/20/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.479		0.00500	mmhos/cm	1	B5E1632	05/16/2025	05/20/2025	
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Table 915 metals by EPA 6020B

Arsenic	4.41		0.243	mg/kg	10	B5E1609	05/16/2025	05/19/2025	
Barium	98.4		68.7	"	"	"	"	"	
Cadmium	ND		0.319	"	"	"	"	"	U
Copper	ND		38.6	"	"	"	"	"	U

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

GACO0515T084CRS003

5/15/2025 8:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0527-11 (Soil)
 Origins Laboratory**

Table 915 metals by EPA 6020B

Lead	ND		11.7	mg/kg	10	B5E1609	05/16/2025	05/19/2025	U
Nickel	ND		21.8	"	"	"	"	"	U
Selenium	0.227		0.218	"	"	"	"	"	U
Silver	ND		0.671	"	"	"	"	"	U
Zinc	ND		310	"	"	"	"	"	U

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Kyle Lawrence
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 Project: PROJ-054017

GACO0515T084CRS004

5/15/2025 8:40:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0527-12 (Soil) Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	1.27		0.0994	mg/L	1	B5E1614	05/16/2025	05/19/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E1602	05/16/2025	05/16/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	104 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E1603	05/16/2025	05/16/2025	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	97.5 %			70-130		"	"	"	
Surrogate: Toluene-d8	104 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %			70-130		"	"	"	

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Kyle Lawrence
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 Project: PROJ-054017

GACO0515T084CRS004

5/15/2025 8:40:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0527-12 (Soil)
 Origins Laboratory**

Metals by Saturated Paste by EPA 6010

Calcium	1.21		0.499	meq/L	10	[CALC]	05/16/2025	05/20/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.548		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E1631	05/16/2025	05/16/2025	U
2-Methylnaphthalene	0.003		0.002	"	"	"	"	"	
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

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Kyle Lawrence
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GACO0515T084CRS004

5/15/2025 8:40:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0527-12 (Soil)
 Origins Laboratory**

PAH by EPA 8270E extracted via 3580A

Surrogate: Fluorene-d10	100 %			60-130		B5E1631	05/16/2025	05/16/2025	
Surrogate: Anthracene-d10	100 %			60-130		"	"	"	
Surrogate: Pyrene-d10	97.7 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	99.8 %			60-130		"	"	"	

pH in Soil by 9045D

pH	8.26			pH Units	1	B5E1632	05/16/2025	05/20/2025	
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SAR by 20B Saturated Paste

SAR	0.548		0.0100	SAR	1	B5E1625	05/16/2025	05/20/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.608		0.00500	mmhos/cm	1	B5E1632	05/16/2025	05/20/2025	
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Table 915 metals by EPA 6020B

Arsenic	3.94		0.257	mg/kg	10	B5E1609	05/16/2025	05/19/2025	
Barium	104		72.8	"	"	"	"	"	
Cadmium	ND		0.337	"	"	"	"	"	U
Copper	ND		40.8	"	"	"	"	"	U
Lead	ND		12.4	"	"	"	"	"	U
Nickel	ND		23.1	"	"	"	"	"	U

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GACO0515T084CRS004

5/15/2025 8:40:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0527-12 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Selenium	0.265		0.231	mg/kg	10	B5E1609	05/16/2025	05/19/2025	
Silver	ND		0.710	"	"	"	"	"	U
Zinc	ND		328	"	"	"	"	"	U

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GACO0515T084CRS005

5/15/2025 8:45:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0527-13 (Soil) Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.338		0.0997	mg/L	1	B5E1614	05/16/2025	05/19/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E1602	05/16/2025	05/16/2025	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	B5E1603	05/16/2025	05/16/2025	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	101 %			70-130		"	"	"	
Surrogate: Toluene-d8	102 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %			70-130		"	"	"	

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GACO0515T084CRS005

5/15/2025 8:45:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0527-13 (Soil)
 Origins Laboratory**

Metals by Saturated Paste by EPA 6010

Calcium	2.05		0.499	meq/L	10	[CALC]	05/16/2025	05/20/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E1631	05/16/2025	05/16/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U

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CTEH
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 North Little Rock AR 72118

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

GACO0515T084CRS005

5/15/2025 8:45:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0527-13 (Soil)
 Origins Laboratory**

PAH by EPA 8270E extracted via 3580A

Pyrene	ND		0.020	mg/kg	1	B5E1631	05/16/2025	05/16/2025	U
Surrogate: Fluorene-d10	100 %			60-130		"	"	"	
Surrogate: Anthracene-d10	101 %			60-130		"	"	"	
Surrogate: Pyrene-d10	98.3 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	99.7 %			60-130		"	"	"	

pH in Soil by 9045D

pH	8.12			pH Units	1	B5E1632	05/16/2025	05/20/2025	
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SAR by 20B Saturated Paste

SAR	0.0478		0.0100	SAR	1	B5E1625	05/16/2025	05/20/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.247		0.00500	mmhos/cm	1	B5E1632	05/16/2025	05/20/2025	
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Table 915 metals by EPA 6020B

Arsenic	5.80		0.258	mg/kg	10	B5E1609	05/16/2025	05/19/2025	
Barium	121		73.1	"	"	"	"	"	
Cadmium	ND		0.339	"	"	"	"	"	U
Copper	ND		41.0	"	"	"	"	"	U

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 North Little Rock AR 72118

Kyle Lawrence
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GACO0515T084CRS005

5/15/2025 8:45:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0527-13 (Soil)
 Origins Laboratory**

Table 915 metals by EPA 6020B

Lead	ND		12.5	mg/kg	10	B5E1609	05/16/2025	05/19/2025	U
Nickel	ND		23.2	"	"	"	"	"	U
Selenium	0.283		0.232	"	"	"	"	"	U
Silver	ND		0.713	"	"	"	"	"	U
Zinc	ND		330	"	"	"	"	"	U

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GACO0515T084CRS006

5/15/2025 9:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0527-14 (Soil) Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	1.53		0.0999	mg/L	1	B5E1614	05/16/2025	05/19/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E1602	05/16/2025	05/16/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	110 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E1603	05/16/2025	05/16/2025	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	98.9 %			70-130		"	"	"	
Surrogate: Toluene-d8	104 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	98.5 %			70-130		"	"	"	

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Kyle Lawrence
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 Project: PROJ-054017

GACO0515T084CRS006

5/15/2025 9:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0527-14 (Soil)
 Origins Laboratory**

Metals by Saturated Paste by EPA 6010

Calcium	2.51		0.499	meq/L	10	[CALC]	05/16/2025	05/20/2025	
Magnesium	1.51		0.823	"	"	"	"	"	
Sodium	1.13		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E1631	05/16/2025	05/16/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	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

GACO0515T084CRS006

5/15/2025 9:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0527-14 (Soil)
 Origins Laboratory**

PAH by EPA 8270E extracted via 3580A

Surrogate: Fluorene-d10	101 %			60-130		B5E1631	05/16/2025	05/16/2025	
Surrogate: Anthracene-d10	101 %			60-130		"	"	"	
Surrogate: Pyrene-d10	97.6 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	97.8 %			60-130		"	"	"	

pH in Soil by 9045D

pH	8.30			pH Units	1	B5E1632	05/16/2025	05/20/2025	
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SAR by 20B Saturated Paste

SAR	0.799		0.0100	SAR	1	B5E1625	05/16/2025	05/20/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.06		0.00500	mmhos/cm	1	B5E1632	05/16/2025	05/20/2025	
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Table 915 metals by EPA 6020B

Arsenic	6.97		0.275	mg/kg	10	B5E1609	05/16/2025	05/19/2025	
Barium	117		77.7	"	"	"	"	"	
Cadmium	ND		0.360	"	"	"	"	"	U
Copper	ND		43.6	"	"	"	"	"	U
Lead	ND		13.3	"	"	"	"	"	U
Nickel	ND		24.6	"	"	"	"	"	U

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Kyle Lawrence
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 Project: PROJ-054017

GACO0515T084CRS006

5/15/2025 9:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0527-14 (Soil)
 Origins Laboratory**

Table 915 metals by EPA 6020B

Selenium	0.306		0.246	mg/kg	10	B5E1609	05/16/2025	05/19/2025	
Silver	ND		0.758	"	"	"	"	"	U
Zinc	ND		350	"	"	"	"	"	U

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GACO0515T084CRS007

5/15/2025 9:15:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0527-15 (Soil) Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	1.26		0.0998	mg/L	1	B5E1614	05/16/2025	05/19/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E1602	05/16/2025	05/16/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	104 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E1603	05/16/2025	05/16/2025	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	96.6 %			70-130		"	"	"	
Surrogate: Toluene-d8	103 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	99.7 %			70-130		"	"	"	

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Kyle Lawrence
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GACO0515T084CRS007

5/15/2025 9:15:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0527-15 (Soil)
 Origins Laboratory**

Metals by Saturated Paste by EPA 6010

Calcium	1.30		0.499	meq/L	10	[CALC]	05/16/2025	05/20/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E1631	05/16/2025	05/16/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	0.006		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U

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

GACO0515T084CRS007

5/15/2025 9:15:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0527-15 (Soil)
 Origins Laboratory**

PAH by EPA 8270E extracted via 3580A

Pyrene	ND		0.020	mg/kg	1	B5E1631	05/16/2025	05/16/2025	U
Surrogate: Fluorene-d10	100 %			60-130		"	"	"	
Surrogate: Anthracene-d10	101 %			60-130		"	"	"	
Surrogate: Pyrene-d10	96.0 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	101 %			60-130		"	"	"	

pH in Soil by 9045D

pH	8.17			pH Units	1	B5E1632	05/16/2025	05/20/2025	
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SAR by 20B Saturated Paste

SAR	0.219		0.0100	SAR	1	B5E1625	05/16/2025	05/20/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.431		0.00500	mmhos/cm	1	B5E1632	05/16/2025	05/20/2025	
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Table 915 metals by EPA 6020B

Arsenic	3.54		0.261	mg/kg	10	B5E1609	05/16/2025	05/19/2025	
Barium	82.6		73.9	"	"	"	"	"	
Cadmium	ND		0.342	"	"	"	"	"	U
Copper	ND		41.4	"	"	"	"	"	U

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5/15/2025 9:15:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0527-15 (Soil)
 Origins Laboratory**

Table 915 metals by EPA 6020B

Lead	ND		12.6	mg/kg	10	B5E1609	05/16/2025	05/19/2025	U
Nickel	ND		23.4	"	"	"	"	"	U
Selenium	ND		0.234	"	"	"	"	"	U
Silver	ND		0.721	"	"	"	"	"	U
Zinc	ND		333	"	"	"	"	"	U

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GACO0515T084CRS008

5/15/2025 9:25:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0527-16 (Soil) Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.241		0.100	mg/L	1	B5E1614	05/16/2025	05/19/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E1602	05/16/2025	05/16/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	109 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E1603	05/16/2025	05/16/2025	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	95.9 %			70-130		"	"	"	
Surrogate: Toluene-d8	103 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	98.8 %			70-130		"	"	"	

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GACO0515T084CRS008

5/15/2025 9:25:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0527-16 (Soil)
 Origins Laboratory**

Metals by Saturated Paste by EPA 6010

Calcium	2.09		0.499	meq/L	10	[CALC]	05/16/2025	05/20/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E1631	05/16/2025	05/16/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U

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Kyle Lawrence
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GACO0515T084CRS008

5/15/2025 9:25:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0527-16 (Soil)
 Origins Laboratory**

PAH by EPA 8270E extracted via 3580A

Pyrene	ND		0.020	mg/kg	1	B5E1631	05/16/2025	05/16/2025	U
Surrogate: Fluorene-d10	101 %			60-130		"	"	"	
Surrogate: Anthracene-d10	101 %			60-130		"	"	"	
Surrogate: Pyrene-d10	98.0 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	96.7 %			60-130		"	"	"	

pH in Soil by 9045D

pH	8.10			pH Units	1	B5E1632	05/16/2025	05/20/2025	
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SAR by 20B Saturated Paste

SAR	0.146		0.0100	SAR	1	B5E1625	05/16/2025	05/20/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.242		0.00500	mmhos/cm	1	B5E1632	05/16/2025	05/20/2025	
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Table 915 metals by EPA 6020B

Arsenic	4.10		0.277	mg/kg	10	B5E1609	05/16/2025	05/19/2025	
Barium	97.0		78.4	"	"	"	"	"	
Cadmium	ND		0.363	"	"	"	"	"	U
Copper	ND		44.0	"	"	"	"	"	U

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5/15/2025 9:25:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0527-16 (Soil)
 Origins Laboratory**

Table 915 metals by EPA 6020B

Lead	ND		13.4	mg/kg	10	B5E1609	05/16/2025	05/19/2025	U
Nickel	ND		24.9	"	"	"	"	"	U
Selenium	0.269		0.249	"	"	"	"	"	U
Silver	ND		0.765	"	"	"	"	"	U
Zinc	ND		354	"	"	"	"	"	U

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 North Little Rock AR 72118

Kyle Lawrence
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 Project: PROJ-054017

GACO0515T084CRS015

5/15/2025 9:35:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0527-17 (Soil) Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.514		0.0995	mg/L	1	B5E1614	05/16/2025	05/19/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E1602	05/16/2025	05/16/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	110 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E1603	05/16/2025	05/16/2025	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	96.9 %			70-130		"	"	"	
Surrogate: Toluene-d8	103 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	99.1 %			70-130		"	"	"	

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5/15/2025 9:35:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0527-17 (Soil)
 Origins Laboratory**

Metals by Saturated Paste by EPA 6010

Calcium	1.51		0.499	meq/L	10	[CALC]	05/16/2025	05/20/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.454		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E1631	05/16/2025	05/16/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U

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GACO0515T084CRS015

5/15/2025 9:35:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0527-17 (Soil)
 Origins Laboratory**

PAH by EPA 8270E extracted via 3580A

Pyrene	ND		0.020	mg/kg	1	B5E1631	05/16/2025	05/16/2025	U
Surrogate: Fluorene-d10	101 %			60-130		"	"	"	
Surrogate: Anthracene-d10	101 %			60-130		"	"	"	
Surrogate: Pyrene-d10	97.6 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	98.3 %			60-130		"	"	"	

pH in Soil by 9045D

pH	8.36			pH Units	1	B5E1632	05/16/2025	05/20/2025	
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SAR by 20B Saturated Paste

SAR	0.448		0.0100	SAR	1	B5E1625	05/16/2025	05/20/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.346		0.00500	mmhos/cm	1	B5E1632	05/16/2025	05/20/2025	
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Table 915 metals by EPA 6020B

Arsenic	17.4		0.263	mg/kg	10	B5E1609	05/16/2025	05/19/2025	
Barium	142		74.5	"	"	"	"	"	
Cadmium	0.371		0.345	"	"	"	"	"	
Copper	ND		41.8	"	"	"	"	"	U

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5/15/2025 9:35:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0527-17 (Soil)
 Origins Laboratory**

Table 915 metals by EPA 6020B

Lead	ND		12.7	mg/kg	10	B5E1609	05/16/2025	05/19/2025	U
Nickel	ND		23.6	"	"	"	"	"	U
Selenium	0.418		0.236	"	"	"	"	"	U
Silver	ND		0.726	"	"	"	"	"	U
Zinc	ND		336	"	"	"	"	"	U

Origins Laboratory

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

GACO0515T084CRS016

5/15/2025 9:40:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0527-18 (Soil) Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.610		0.101	mg/L	1	B5E1614	05/16/2025	05/19/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E1602	05/16/2025	05/16/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	104 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E1603	05/16/2025	05/16/2025	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	97.8 %			70-130		"	"	"	
Surrogate: Toluene-d8	102 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	99.4 %			70-130		"	"	"	

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Kyle Lawrence
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GACO0515T084CRS016

5/15/2025 9:40:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0527-18 (Soil)
 Origins Laboratory**

Metals by Saturated Paste by EPA 6010

Calcium	1.52		0.499	meq/L	10	[CALC]	05/16/2025	05/20/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E1631	05/16/2025	05/16/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U

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Kyle Lawrence
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5/15/2025 9:40:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0527-18 (Soil)
 Origins Laboratory**

PAH by EPA 8270E extracted via 3580A

Pyrene	ND		0.020	mg/kg	1	B5E1631	05/16/2025	05/16/2025	U
Surrogate: Fluorene-d10	101 %			60-130		"	"	"	
Surrogate: Anthracene-d10	101 %			60-130		"	"	"	
Surrogate: Pyrene-d10	98.1 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	99.9 %			60-130		"	"	"	

pH in Soil by 9045D

pH	8.30			pH Units	1	B5E1632	05/16/2025	05/20/2025	
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SAR by 20B Saturated Paste

SAR	0.311		0.0100	SAR	1	B5E1625	05/16/2025	05/20/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.398		0.00500	mmhos/cm	1	B5E1632	05/16/2025	05/20/2025	
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Table 915 metals by EPA 6020B

Arsenic	6.28		0.259	mg/kg	10	B5E1609	05/16/2025	05/19/2025	
Barium	73.2		73.1	"	"	"	"	"	
Cadmium	ND		0.339	"	"	"	"	"	U
Copper	ND		41.0	"	"	"	"	"	U

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5/15/2025 9:40:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0527-18 (Soil)
 Origins Laboratory**

Table 915 metals by EPA 6020B

Lead	ND		12.5	mg/kg	10	B5E1609	05/16/2025	05/19/2025	U
Nickel	ND		23.2	"	"	"	"	"	U
Selenium	ND		0.232	"	"	"	"	"	U
Silver	ND		0.713	"	"	"	"	"	U
Zinc	ND		330	"	"	"	"	"	U

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5/15/2025 9:45:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0527-19 (Soil) Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.428		0.0998	mg/L	1	B5E1614	05/16/2025	05/19/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E1602	05/16/2025	05/16/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	103 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E1603	05/16/2025	05/16/2025	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	98.2 %			70-130		"	"	"	
Surrogate: Toluene-d8	102 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	98.9 %			70-130		"	"	"	

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5/15/2025 9:45:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0527-19 (Soil)
 Origins Laboratory**

Metals by Saturated Paste by EPA 6010

Calcium	2.35		0.499	meq/L	10	[CALC]	05/16/2025	05/20/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E1631	05/16/2025	05/16/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U

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5/15/2025 9:45:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0527-19 (Soil)
 Origins Laboratory**

PAH by EPA 8270E extracted via 3580A

Pyrene	ND		0.020	mg/kg	1	B5E1631	05/16/2025	05/16/2025	U
Surrogate: Fluorene-d10	101 %			60-130		"	"	"	
Surrogate: Anthracene-d10	101 %			60-130		"	"	"	
Surrogate: Pyrene-d10	98.3 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	99.2 %			60-130		"	"	"	

pH in Soil by 9045D

pH	8.04			pH Units	1	B5E1632	05/16/2025	05/20/2025	
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SAR by 20B Saturated Paste

SAR	0.195		0.0100	SAR	1	B5E1625	05/16/2025	05/20/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.297		0.00500	mmhos/cm	1	B5E1632	05/16/2025	05/20/2025	
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Table 915 metals by EPA 6020B

Arsenic	3.37		0.257	mg/kg	10	B5E1609	05/16/2025	05/19/2025	
Barium	ND		72.6	"	"	"	"	"	U
Cadmium	ND		0.337	"	"	"	"	"	U
Copper	ND		40.8	"	"	"	"	"	U

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5/15/2025 9:45:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0527-19 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Lead	ND		12.4	mg/kg	10	B5E1609	05/16/2025	05/19/2025	U
Nickel	ND		23.0	"	"	"	"	"	U
Selenium	ND		0.230	"	"	"	"	"	U
Silver	ND		0.709	"	"	"	"	"	U
Zinc	ND		328	"	"	"	"	"	U

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GACO0515T084CRS018
5/15/2025 10:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0527-20 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	1.05		0.101	mg/L	1	B5E1614	05/16/2025	05/19/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E1602	05/16/2025	05/16/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	113 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E1603	05/16/2025	05/16/2025	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	98.9 %			70-130		"	"	"	
Surrogate: Toluene-d8	104 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %			70-130		"	"	"	

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GACO0515T084CRS018
5/15/2025 10:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0527-20 (Soil)
Origins Laboratory

Metals by Saturated Paste by EPA 6010

Calcium	1.58		0.499	meq/L	10	[CALC]	05/16/2025	05/20/2025	
Magnesium	0.879		0.823	"	"	"	"	"	
Sodium	0.659		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E1631	05/16/2025	05/16/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

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Kyle Lawrence
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GACO0515T084CRS018
5/15/2025 10:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0527-20 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Surrogate: Fluorene-d10	101 %			60-130		B5E1631	05/16/2025	05/16/2025	
Surrogate: Anthracene-d10	102 %			60-130		"	"	"	
Surrogate: Pyrene-d10	96.5 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	99.7 %			60-130		"	"	"	

pH in Soil by 9045D

pH	8.39			pH Units	1	B5E1632	05/16/2025	05/20/2025	
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SAR by 20B Saturated Paste

SAR	0.595		0.0100	SAR	1	B5E1625	05/16/2025	05/20/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.613		0.00500	mmhos/cm	1	B5E1632	05/16/2025	05/20/2025	
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Table 915 metals by EPA 6020B

Arsenic	4.89		0.251	mg/kg	10	B5E1609	05/16/2025	05/19/2025	
Barium	119		71.0	"	"	"	"	"	
Cadmium	ND		0.329	"	"	"	"	"	U
Copper	ND		39.8	"	"	"	"	"	U
Lead	ND		12.1	"	"	"	"	"	U
Nickel	ND		22.5	"	"	"	"	"	U

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GACO0515T084CRS018
5/15/2025 10:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0527-20 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Selenium	0.320		0.225	mg/kg	10	B5E1609	05/16/2025	05/19/2025	
Silver	ND		0.693	"	"	"	"	"	U
Zinc	ND		320	"	"	"	"	"	U

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Kyle Lawrence
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GACO0515T084CRT005

5/15/2025 7:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0527-21 (Water) Origins Laboratory									
VOC by EPA 8260D									
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L	1	B5E1701	05/17/2025	05/17/2025	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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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

GACO0515T084CRT005

5/15/2025 7:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0527-21 (Water) Origins Laboratory									
VOC by EPA 8260D									
1,4-Dichlorobenzene	ND		1.00	ug/L	1	B5E1701	05/17/2025	05/17/2025	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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CTEH
 5120 North Shore Drive
 North Little Rock AR 72118

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

GACO0515T084CRT005

5/15/2025 7:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0527-21 (Water) Origins Laboratory									
VOC by EPA 8260D									
Chloroform	ND		1.00	ug/L	1	B5E1701	05/17/2025	05/17/2025	U
Chloromethane	ND		1.00	"	"	"	"	"	U
cis-1,2-Dichloroethene	ND		1.00	"	"	"	"	"	U
cis-1,3-Dichloropropene	ND		1.00	"	"	"	"	"	U
Dibromochloromethane	ND		1.00	"	"	"	"	"	U
Dibromomethane	ND		1.00	"	"	"	"	"	U
Ethylbenzene	ND		1.00	"	"	"	"	"	U
Hexachlorobutadiene	ND		5.00	"	"	"	"	"	U
Iodomethane	ND		10.0	"	"	"	"	"	U
Isopropylbenzene	ND		1.00	"	"	"	"	"	U
Methylene Chloride	ND		15.0	"	"	"	"	"	U
Methyl tert-Butyl Ether	ND		1.00	"	"	"	"	"	U
Naphthalene	ND		4.00	"	"	"	"	"	U
n-Butylbenzene	ND		1.00	"	"	"	"	"	U
n-Propylbenzene	ND		1.00	"	"	"	"	"	U
sec-Butylbenzene	ND		1.00	"	"	"	"	"	U
Styrene	ND		1.00	"	"	"	"	"	U
tert-Butylbenzene	ND		1.00	"	"	"	"	"	U
Tetrachloroethene	ND		1.00	"	"	"	"	"	U

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 North Little Rock AR 72118

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

GACO0515T084CRT005

5/15/2025 7:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0527-21 (Water)
 Origins Laboratory**

VOC by EPA 8260D

Toluene	ND		1.00	ug/L	1	B5E1701	05/17/2025	05/17/2025	U
trans-1,2-Dichloroethene	ND		1.00	"	"	"	"	"	U
trans-1,3-Dichloropropene	ND		1.00	"	"	"	"	"	U
Trichloroethene	ND		1.00	"	"	"	"	"	U
Trichlorofluoromethane	ND		1.00	"	"	"	"	"	U
Vinyl chloride	ND		1.00	"	"	"	"	"	U
o-Xylene	ND		1.00	"	"	"	"	"	U
m,p-Xylene	ND		2.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	93.5 %				70-130	"	"	"	
Surrogate: Toluene-d8	104 %				70-130	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.7 %				70-130	"	"	"	

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

Classical Chemistry Parameters - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5E1614 - DTPA Sorbitol Preparation

Blank (B5E1614-BLK1)

Prepared: 05/16/2025 Analyzed: 05/19/2025

Boron	ND	0.100	mg/L							U
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Duplicate (B5E1614-DUP1)

Source: E5E0527-01

Prepared: 05/16/2025 Analyzed: 05/19/2025

Boron	1.30	0.0996	mg/L		1.37			4.77	50	
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Batch B5E1625 - Saturated Paste Metals

Blank (B5E1625-BLK1)

Prepared: 05/16/2025 Analyzed: 05/20/2025

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

Duplicate (B5E1625-DUP1)

Source: E5E0527-01

Prepared: 05/16/2025 Analyzed: 05/20/2025

Calcium PPM	32.0	10.0	mg/L		35.6			10.7	50	
SAR	ND	0.0100	SAR		0.633				200	U
Magnesium PPM	12.6	10.0	mg/L		14.1			11.0	50	
Sodium PPM	16.0	10.0	"		17.6			9.82	50	

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Jen Pellegrini For Jordan A. Bynon, Project Manager



CTEH
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 North Little Rock AR 72118

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

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 B5E1631 - EPA 3580

Blank (B5E1631-BLK1)

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

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	200		"	200		98.2	60-130			
Surrogate: Pyrene-d10	200		"	200		99.6	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.7	60-130			

LCS (B5E1631-BS1)

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

1-Methylnaphthalene	0.196	0.002	mg/kg	0.200		98.0	70-130			
2-Methylnaphthalene	0.197	0.002	"	0.200		98.3	70-130			
Acenaphthene	0.200	0.020	"	0.200		99.8	70-130			
Anthracene	0.190	0.020	"	0.200		94.8	70-130			

Origins Laboratory

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Jen Pellegrini For Jordan A. Bynon, Project Manager



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

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 B5E1631 - EPA 3580

LCS (B5E1631-BS1)

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

Benzo (a) anthracene	0.189	0.005	mg/kg	0.200		94.7	70-130			
Benzo (a) pyrene	0.189	0.020	"	0.200		94.6	70-130			
Benzo (b) fluoranthene	0.190	0.020	"	0.200		95.1	70-130			
Benzo (g,h,i) perylene	0.187	0.020	"	0.200		93.3	70-130			
Benzo (k) fluoranthene	0.200	0.020	"	0.200		100	70-130			
Chrysene	0.187	0.020	"	0.200		93.3	70-130			
Dibenz (a,h) anthracene	0.219	0.020	"	0.200		109	70-130			
Fluoranthene	0.197	0.020	"	0.200		98.3	70-130			
Fluorene	0.198	0.020	"	0.200		98.9	70-130			
Indeno (1,2,3-cd) pyrene	0.199	0.020	"	0.200		99.6	70-130			
Naphthalene	0.197	0.002	"	0.200		98.5	70-130			
Phenanthrene	0.197	0.020	"	0.200		98.5	70-130			
Pyrene	0.195	0.020	"	0.200		97.5	70-130			

Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	200		"	200		98.0	60-130			
Surrogate: Pyrene-d10	200		"	200		100	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		97.5	60-130			

Matrix Spike (B5E1631-MS1)

Source: E5E0527-01

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

1-Methylnaphthalene	0.205	0.002	mg/kg	0.200	ND	102	70-130			
2-Methylnaphthalene	0.205	0.002	"	0.200	ND	102	70-130			
Acenaphthene	0.206	0.020	"	0.200	ND	103	70-130			
Anthracene	0.198	0.020	"	0.200	0.0006	98.7	70-130			
Benzo (a) anthracene	0.205	0.005	"	0.200	0.004	100	70-130			
Benzo (a) pyrene	0.214	0.020	"	0.200	0.007	103	70-130			
Benzo (b) fluoranthene	0.196	0.020	"	0.200	0.007	94.6	70-130			
Benzo (g,h,i) perylene	0.189	0.020	"	0.200	0.005	91.7	70-130			

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Jen Pellegrini For Jordan A. Bynon, Project Manager



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 North Little Rock AR 72118

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

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 B5E1631 - EPA 3580

Matrix Spike (B5E1631-MS1)

Source: E5E0527-01

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

Benzo (k) fluoranthene	0.208	0.020	mg/kg	0.200	0.003	102	70-130			
Chrysene	0.206	0.020	"	0.200	0.007	99.2	70-130			
Dibenz (a,h) anthracene	0.221	0.020	"	0.200	0.0005	110	70-130			
Fluoranthene	0.210	0.020	"	0.200	0.007	102	70-130			
Fluorene	0.204	0.020	"	0.200	ND	102	70-130			
Indeno (1,2,3-cd) pyrene	0.206	0.020	"	0.200	0.004	101	70-130			
Naphthalene	0.202	0.002	"	0.200	ND	101	70-130			
Phenanthrene	0.203	0.020	"	0.200	0.001	101	70-130			
Pyrene	0.207	0.020	"	0.200	0.007	100	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	200		"	200		99.3	60-130			
Surrogate: Pyrene-d10	200		"	200		99.4	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.4	60-130			

Matrix Spike Dup (B5E1631-MSD1)

Source: E5E0527-01

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

1-Methylnaphthalene	0.205	0.002	mg/kg	0.200	ND	103	70-130	0.384	20	
2-Methylnaphthalene	0.206	0.002	"	0.200	ND	103	70-130	0.791	20	
Acenaphthene	0.207	0.020	"	0.200	ND	103	70-130	0.133	20	
Anthracene	0.199	0.020	"	0.200	0.0006	99.3	70-130	0.660	20	
Benzo (a) anthracene	0.207	0.005	"	0.200	0.004	101	70-130	0.721	20	
Benzo (a) pyrene	0.217	0.020	"	0.200	0.007	105	70-130	1.49	20	
Benzo (b) fluoranthene	0.197	0.020	"	0.200	0.007	95.0	70-130	0.389	20	
Benzo (g,h,i) perylene	0.191	0.020	"	0.200	0.005	93.0	70-130	1.31	20	
Benzo (k) fluoranthene	0.210	0.020	"	0.200	0.003	103	70-130	1.14	20	
Chrysene	0.197	0.020	"	0.200	0.007	94.8	70-130	4.36	20	
Dibenz (a,h) anthracene	0.219	0.020	"	0.200	0.0005	109	70-130	0.971	20	
Fluoranthene	0.211	0.020	"	0.200	0.007	102	70-130	0.749	20	

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 North Little Rock AR 72118

Kyle Lawrence
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 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 B5E1631 - EPA 3580

Matrix Spike Dup (B5E1631-MSD1)

Source: E5E0527-01

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

Fluorene	0.204	0.020	mg/kg	0.200	ND	102	70-130	0.118	20	
Indeno (1,2,3-cd) pyrene	0.208	0.020	"	0.200	0.004	102	70-130	1.26	20	
Naphthalene	0.204	0.002	"	0.200	ND	102	70-130	0.962	20	
Phenanthrene	0.204	0.020	"	0.200	0.001	101	70-130	0.443	20	
Pyrene	0.206	0.020	"	0.200	0.007	99.8	70-130	0.445	20	
Surrogate: Fluorene-d10	200		ug/kg	200		99.9	60-130			
Surrogate: Anthracene-d10	200		"	200		99.8	60-130			
Surrogate: Pyrene-d10	200		"	200		98.7	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130			

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 North Little Rock AR 72118

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

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5E1602 - EPA 3550B

Blank (B5E1602-BLK1)

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

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	30		"	24.9		122	50-150			

LCS (B5E1602-BS1)

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

Diesel (C10-C28)	988	50.0	mg/kg	1000		98.8	70-130			
Residual Range Organics (C28-C40)	989	200	"	1000		98.9	70-130			
Surrogate: o-Terphenyl	67		"	49.8		135	50-150			

Matrix Spike (B5E1602-MS1)

Source: E5E0527-01

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

Diesel (C10-C28)	936	50.0	mg/kg	1000	ND	93.6	70-130			
Residual Range Organics (C28-C40)	924	200	"	1000	ND	92.4	70-130			
Surrogate: o-Terphenyl	57		"	49.8		114	50-150			

Matrix Spike Dup (B5E1602-MSD1)

Source: E5E0527-01

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

Diesel (C10-C28)	891	50.0	mg/kg	1000	ND	89.1	70-130	4.95	35	
Residual Range Organics (C28-C40)	873	200	"	1000	ND	87.3	70-130	5.76	35	
Surrogate: o-Terphenyl	56		"	49.8		112	50-150			

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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 B5E1609 - EPA 3050B

Blank (B5E1609-BLK1)

Prepared: 05/16/2025 Analyzed: 05/19/2025

Arsenic	ND	0.290	mg/kg							U
Barium	ND	82.0	"							U
Cadmium	ND	0.380	"							U
Copper	ND	46.0	"							U
Lead	ND	14.0	"							U
Nickel	ND	26.0	"							U
Selenium	ND	0.260	"							U
Silver	ND	0.800	"							U
Zinc	ND	370	"							U

LCS (B5E1609-BS1)

Prepared: 05/16/2025 Analyzed: 05/19/2025

Arsenic	5.35	0.290	mg/kg	5.00		107	80-120			
Barium	525	82.0	"	500		105	80-120			
Cadmium	5.49	0.380	"	5.00		110	80-120			
Copper	54.2	46.0	"	50.0		108	80-120			
Lead	5.42	14.0	"	5.00		108	80-120			U
Nickel	5.48	26.0	"	5.00		110	80-120			U
Selenium	5.39	0.260	"	5.00		108	80-120			
Silver	5.45	0.800	"	5.00		109	80-120			
Zinc	57.1	370	"	50.0		114	80-120			U

Matrix Spike (B5E1609-MS1)

Source: E5E0527-01

Prepared: 05/16/2025 Analyzed: 05/19/2025

Arsenic	8.11	0.262	mg/kg	4.53	3.74	96.5	75-125			
Barium	586	74.2	"	453	68.3	114	75-125			
Cadmium	5.27	0.344	"	4.53	0.204	112	75-125			
Copper	57.6	41.6	"	45.3	7.78	110	75-125			
Lead	26.0	12.7	"	4.53	10.3	348	75-125			QM-07

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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

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 B5E1609 - EPA 3050B

Matrix Spike (B5E1609-MS1)

Source: E5E0527-01

Prepared: 05/16/2025 Analyzed: 05/19/2025

Nickel	10.9	23.5	mg/kg	4.53	5.88	111	75-125			U
Selenium	5.18	0.235	"	4.53	0.234	109	75-125			
Silver	4.92	0.724	"	4.53	0.0248	108	75-125			
Zinc	90.4	335	"	45.3	44.1	102	75-125			U

Matrix Spike Dup (B5E1609-MSD1)

Source: E5E0527-01

Prepared: 05/16/2025 Analyzed: 05/19/2025

Arsenic	9.12	0.272	mg/kg	4.69	3.74	115	75-125	11.7	20	
Barium	631	76.9	"	469	68.3	120	75-125	7.48	20	
Cadmium	5.78	0.356	"	4.69	0.204	119	75-125	9.10	20	
Copper	65.0	43.1	"	46.9	7.78	122	75-125	11.9	20	
Lead	15.5	13.1	"	4.69	10.3	111	75-125	50.8	20	QR-DUP
Nickel	11.9	24.4	"	4.69	5.88	128	75-125	8.91	20	QM-07, U
Selenium	5.53	0.244	"	4.69	0.234	113	75-125	6.44	20	
Silver	5.55	0.750	"	4.69	0.0248	118	75-125	12.1	20	
Zinc	100	347	"	46.9	44.1	119	75-125	10.1	20	U

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Jen Pellegrini For Jordan A. Bynon, Project Manager



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

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 B5E1632 - Saturated Paste pH/EC

Blank (B5E1632-BLK1)

Prepared: 05/16/2025 Analyzed: 05/20/2025

Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
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Duplicate (B5E1632-DUP1)

Source: E5E0527-01

Prepared: 05/16/2025 Analyzed: 05/20/2025

pH	8.14		pH Units		8.07		0.864		25	
Specific Conductance (EC)	0.798	0.00500	mmhos/cm		0.832		4.13		25	

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5E1603 - EPA 5030 (soil)

Blank (B5E1603-BLK1)

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

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

Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.2	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.3	70-130			

LCS (B5E1603-BS1)

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

1,2,4-Trimethylbenzene	0.0918	0.00200	mg/kg	0.100		91.8	70-130			
1,3,5-Trimethylbenzene	0.0933	0.00200	"	0.100		93.3	70-130			
Benzene	0.0842	0.00200	"	0.100		84.2	70-130			
Ethylbenzene	0.0924	0.00200	"	0.100		92.4	70-130			
Naphthalene	0.0853	0.00380	"	0.100		85.3	70-130			
Toluene	0.0814	0.00200	"	0.100		81.4	70-130			
o-Xylene	0.0901	0.00200	"	0.100		90.1	70-130			
m,p-Xylene	0.186	0.00400	"	0.200		92.9	70-130			

Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		90.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		106	70-130			

Matrix Spike (B5E1603-MS1)

Source: E5E0527-01

Prepared: 05/16/2025 Analyzed: 05/18/2025

1,2,4-Trimethylbenzene	0.0410	0.00200	mg/kg	0.100	ND	41.0	70-130			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

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 B5E1603 - EPA 5030 (soil)

Matrix Spike (B5E1603-MS1)

Source: E5E0527-01

Prepared: 05/16/2025 Analyzed: 05/18/2025

1,3,5-Trimethylbenzene	0.0426	0.00200	mg/kg	0.100	ND	42.6	70-130			QM-07
Benzene	0.0567	0.00200	"	0.100	ND	56.7	70-130			QM-07
Ethylbenzene	0.0503	0.00200	"	0.100	ND	50.3	70-130			QM-07
Naphthalene	0.0357	0.00380	"	0.100	0.000900	34.8	70-130			QM-07
Toluene	0.0517	0.00200	"	0.100	ND	51.7	70-130			QM-07
o-Xylene	0.0499	0.00200	"	0.100	ND	49.9	70-130			QM-07
m,p-Xylene	0.0982	0.00400	"	0.200	ND	49.1	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.3	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

Matrix Spike Dup (B5E1603-MSD1)

Source: E5E0527-01

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

1,2,4-Trimethylbenzene	0.0751	0.00200	mg/kg	0.100	ND	75.1	70-130	58.7	20	QR-03
1,3,5-Trimethylbenzene	0.0774	0.00200	"	0.100	ND	77.4	70-130	57.9	20	QR-03
Benzene	0.0722	0.00200	"	0.100	ND	72.2	70-130	24.1	20	QR-03
Ethylbenzene	0.0830	0.00200	"	0.100	ND	83.0	70-130	49.1	20	QR-03
Naphthalene	0.0565	0.00380	"	0.100	0.000900	55.6	70-130	45.2	20	QM-07
Toluene	0.0734	0.00200	"	0.100	ND	73.4	70-130	34.7	20	QR-03
o-Xylene	0.0813	0.00200	"	0.100	ND	81.3	70-130	47.8	20	QR-03
m,p-Xylene	0.166	0.00400	"	0.200	ND	82.9	70-130	51.2	20	QR-03
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.9	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		107	70-130			

Batch B5E1701 - EPA 5030B (Water)

Blank (B5E1701-BLK1)

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

1,1,1,2-Tetrachloroethane	ND	1.00	ug/L							U
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Kyle Lawrence
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 Project: PROJ-054017

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5E1701 - EPA 5030B (Water)

Blank (B5E1701-BLK1)

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

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5E1701 - EPA 5030B (Water)

Blank (B5E1701-BLK1)

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

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5E1701 - EPA 5030B (Water)

Blank (B5E1701-BLK1)

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

sec-Butylbenzene	ND	1.00	ug/L							U
Styrene	ND	1.00	"							U
tert-Butylbenzene	ND	1.00	"							U
Tetrachloroethene	ND	1.00	"							U
Toluene	ND	1.00	"							U
trans-1,2-Dichloroethene	ND	1.00	"							U
trans-1,3-Dichloropropene	ND	1.00	"							U
Trichloroethene	ND	1.00	"							U
Trichlorofluoromethane	ND	1.00	"							U
Vinyl chloride	ND	1.00	"							U
o-Xylene	ND	1.00	"							U
m,p-Xylene	ND	2.00	"							U
Surrogate: 1,2-Dichloroethane-d4	57		"	62.5		90.5	70-130			
Surrogate: Toluene-d8	64		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

LCS (B5E1701-BS1)

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

1,1,1,2-Tetrachloroethane	46.7	1.00	ug/L	50.0		93.5	70-130			
1,1,1-Trichloroethane	38.6	1.00	"	50.0		77.2	70-130			
1,1,2,2-Tetrachloroethane	49.1	1.00	"	50.0		98.2	70-130			
1,1,2-Trichloroethane	41.8	1.00	"	50.0		83.5	70-130			
1,1-Dichloroethane	40.9	1.00	"	50.0		81.8	70-130			
1,1-Dichloroethene	41.2	1.00	"	50.0		82.5	70-130			
1,1-Dichloropropene	40.5	1.00	"	50.0		81.0	70-130			
1,2,3-Trichlorobenzene	45.9	5.00	"	50.0		91.7	70-130			
1,2,3-Trichloropropane	45.3	5.00	"	50.0		90.5	70-130			
1,2,4-Trichlorobenzene	47.6	5.00	"	50.0		95.3	70-130			

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Kyle Lawrence
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 Project: PROJ-054017

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5E1701 - EPA 5030B (Water)

LCS (B5E1701-BS1)

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

1,2,4-Trimethylbenzene	48.6	1.00	ug/L	50.0		97.2	70-130			
1,2-Dibromo-3-chloropropane	42.9	5.00	"	50.0		85.8	70-130			
1,2-Dibromoethane (EDB)	42.3	1.50	"	50.0		84.7	70-130			
1,2-Dichlorobenzene	45.5	1.00	"	50.0		91.0	70-130			
1,2-Dichloroethane	36.2	1.00	"	50.0		72.5	70-130			
1,2-Dichloropropane	42.8	1.00	"	50.0		85.5	70-130			
1,3,5-Trimethylbenzene	49.0	1.00	"	50.0		98.1	70-130			
1,3-Dichlorobenzene	45.7	1.00	"	50.0		91.4	70-130			
1,3-Dichloropropane	43.2	1.00	"	50.0		86.3	70-130			
1,4-Dichlorobenzene	44.5	1.00	"	50.0		89.0	70-130			
2,2-Dichloropropane	39.7	1.00	"	50.0		79.5	70-130			
2-Butanone	202	5.00	"	250		81.0	70-130			
2-Chlorotoluene	47.8	1.00	"	50.0		95.6	70-130			
2-Hexanone	207	6.00	"	250		82.8	70-130			
4-Chlorotoluene	48.0	1.00	"	50.0		96.1	70-130			
4-Isopropyltoluene	48.9	1.00	"	50.0		97.8	70-130			
4-Methyl-2-pentanone	210	5.00	"	250		84.1	70-130			
Acetone	198	8.00	"	250		79.3	70-130			
Benzene	41.4	1.00	"	50.0		82.7	70-130			
Bromobenzene	48.6	1.00	"	50.0		97.1	70-130			
Bromochloromethane	39.5	1.00	"	50.0		79.0	70-130			
Bromodichloromethane	40.4	1.00	"	50.0		80.9	70-130			
Bromoform	47.8	1.00	"	50.0		95.6	70-130			
Bromomethane	49.3	1.00	"	50.0		98.6	70-130			
Carbon disulfide	43.8	5.00	"	50.0		87.6	70-130			
Carbon tetrachloride	37.7	1.00	"	50.0		75.4	70-130			

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Kyle Lawrence
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 Project: PROJ-054017

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5E1701 - EPA 5030B (Water)

LCS (B5E1701-BS1)

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

Chlorobenzene	42.3	1.00	ug/L	50.0		84.6	70-130			
Chloroethane	51.5	1.00	"	50.0		103	70-130			
Chloroform	40.3	1.00	"	50.0		80.5	70-130			
Chloromethane	60.9	1.00	"	50.0		122	70-130			
cis-1,2-Dichloroethene	40.2	1.00	"	50.0		80.4	70-130			
cis-1,3-Dichloropropene	44.8	1.00	"	50.0		89.5	70-130			
Dibromochloromethane	42.6	1.00	"	50.0		85.3	70-130			
Dibromomethane	39.1	1.00	"	50.0		78.1	70-130			
Ethylbenzene	49.7	1.00	"	50.0		99.4	70-130			
Hexachlorobutadiene	50.8	5.00	"	50.0		102	70-130			
Iodomethane	40.4	10.0	"	50.0		80.8	70-130			
Isopropylbenzene	48.9	1.00	"	50.0		97.7	70-130			
Methylene Chloride	41.4	15.0	"	50.0		82.7	70-130			
Methyl tert-Butyl Ether	40.7	1.00	"	50.0		81.4	70-130			
Naphthalene	45.6	4.00	"	50.0		91.3	70-130			
n-Butylbenzene	50.2	1.00	"	50.0		100	70-130			
n-Propylbenzene	50.1	1.00	"	50.0		100	70-130			
sec-Butylbenzene	49.1	1.00	"	50.0		98.2	70-130			
Styrene	49.2	1.00	"	50.0		98.3	70-130			
tert-Butylbenzene	48.5	1.00	"	50.0		96.9	70-130			
Tetrachloroethene	40.4	1.00	"	50.0		80.7	70-130			
Toluene	42.3	1.00	"	50.0		84.6	70-130			
trans-1,2-Dichloroethene	41.2	1.00	"	50.0		82.4	70-130			
trans-1,3-Dichloropropene	44.6	1.00	"	50.0		89.2	70-130			
Trichloroethene	40.2	1.00	"	50.0		80.3	70-130			
Trichlorofluoromethane	40.7	1.00	"	50.0		81.5	70-130			

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Kyle Lawrence
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 Project: PROJ-054017

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5E1701 - EPA 5030B (Water)

LCS (B5E1701-BS1)

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

Vinyl chloride	57.5	1.00	ug/L	50.0		115	70-130			
o-Xylene	48.8	1.00	"	50.0		97.6	70-130			
m,p-Xylene	99.8	2.00	"	100		99.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	56		"	62.5		89.7	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	68		"	62.5		110	70-130			

Matrix Spike (B5E1701-MS1)

Source: E5E0579-01

Prepared: 05/17/2025 Analyzed: 05/20/2025

1,1,1,2-Tetrachloroethane	44.5	1.00	ug/L	50.0	ND	89.1	70-130			
1,1,1-Trichloroethane	46.5	1.00	"	50.0	ND	93.1	70-130			
1,1,2,2-Tetrachloroethane	43.4	1.00	"	50.0	ND	86.7	70-130			
1,1,2-Trichloroethane	43.7	1.00	"	50.0	ND	87.4	70-130			
1,1-Dichloroethane	43.5	1.00	"	50.0	ND	87.0	70-130			
1,1-Dichloroethene	45.7	1.00	"	50.0	ND	91.4	70-130			
1,1-Dichloropropene	44.7	1.00	"	50.0	ND	89.5	70-130			
1,2,3-Trichlorobenzene	54.3	5.00	"	50.0	ND	109	70-130			
1,2,3-Trichloropropane	40.8	5.00	"	50.0	ND	81.6	70-130			
1,2,4-Trichlorobenzene	54.4	5.00	"	50.0	ND	109	70-130			
1,2,4-Trimethylbenzene	46.0	1.00	"	50.0	ND	91.9	70-130			
1,2-Dibromo-3-chloropropane	45.5	5.00	"	50.0	ND	91.0	70-130			
1,2-Dibromoethane (EDB)	45.0	1.50	"	50.0	ND	90.0	70-130			
1,2-Dichlorobenzene	44.3	1.00	"	50.0	ND	88.5	70-130			
1,2-Dichloroethane	49.1	1.00	"	50.0	ND	98.2	70-130			
1,2-Dichloropropane	47.9	1.00	"	50.0	ND	95.8	70-130			
1,3,5-Trimethylbenzene	46.0	1.00	"	50.0	ND	92.0	70-130			
1,3-Dichlorobenzene	45.6	1.00	"	50.0	ND	91.2	70-130			
1,3-Dichloropropane	43.7	1.00	"	50.0	ND	87.5	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 B5E1701 - EPA 5030B (Water)

Matrix Spike (B5E1701-MS1)

Source: E5E0579-01

Prepared: 05/17/2025 Analyzed: 05/20/2025

1,4-Dichlorobenzene	44.4	1.00	ug/L	50.0	ND	88.8	70-130			
2,2-Dichloropropane	46.0	1.00	"	50.0	ND	92.0	70-130			
2-Butanone	220	5.00	"	250	ND	88.0	70-130			
2-Chlorotoluene	43.8	1.00	"	50.0	ND	87.6	70-130			
2-Hexanone	206	6.00	"	250	ND	82.5	70-130			
4-Chlorotoluene	45.3	1.00	"	50.0	ND	90.6	70-130			
4-Isopropyltoluene	46.5	1.00	"	50.0	ND	92.9	70-130			
4-Methyl-2-pentanone	249	5.00	"	250	ND	99.7	70-130			
Acetone	252	8.00	"	250	10.5	96.6	70-130			
Benzene	44.9	1.00	"	50.0	0.850	88.1	70-130			
Bromobenzene	42.8	1.00	"	50.0	ND	85.7	70-130			
Bromochloromethane	45.5	1.00	"	50.0	ND	91.0	70-130			
Bromodichloromethane	52.6	1.00	"	50.0	ND	105	70-130			
Bromoform	47.2	1.00	"	50.0	ND	94.4	70-130			
Bromomethane	59.3	1.00	"	50.0	ND	119	70-130			
Carbon disulfide	46.4	5.00	"	50.0	ND	92.7	70-130			
Carbon tetrachloride	48.8	1.00	"	50.0	ND	97.7	70-130			
Chlorobenzene	43.5	1.00	"	50.0	ND	87.0	70-130			
Chloroethane	63.7	1.00	"	50.0	ND	127	70-130			
Chloroform	45.7	1.00	"	50.0	ND	91.4	70-130			
Chloromethane	57.4	1.00	"	50.0	ND	115	70-130			
cis-1,2-Dichloroethene	44.7	1.00	"	50.0	ND	89.4	70-130			
cis-1,3-Dichloropropene	48.1	1.00	"	50.0	ND	96.2	70-130			
Dibromochloromethane	48.0	1.00	"	50.0	ND	95.9	70-130			
Dibromomethane	49.6	1.00	"	50.0	ND	99.3	70-130			
Ethylbenzene	42.8	1.00	"	50.0	ND	85.7	70-130			

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Jen Pellegrini For Jordan A. Bynon, Project Manager



CTEH
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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 B5E1701 - EPA 5030B (Water)

Matrix Spike (B5E1701-MS1)

Source: E5E0579-01

Prepared: 05/17/2025 Analyzed: 05/20/2025

Hexachlorobutadiene	54.1	5.00	ug/L	50.0	ND	108	70-130			
Iodomethane	46.1	10.0	"	50.0	ND	92.2	70-130			
Isopropylbenzene	44.1	1.00	"	50.0	ND	88.2	70-130			
Methylene Chloride	43.1	15.0	"	50.0	ND	86.1	70-130			
Methyl tert-Butyl Ether	39.0	1.00	"	50.0	ND	78.0	70-130			
Naphthalene	52.4	4.00	"	50.0	ND	105	70-130			
n-Butylbenzene	48.0	1.00	"	50.0	ND	96.0	70-130			
n-Propylbenzene	44.6	1.00	"	50.0	ND	89.3	70-130			
sec-Butylbenzene	45.4	1.00	"	50.0	ND	90.9	70-130			
Styrene	43.0	1.00	"	50.0	ND	85.9	70-130			
tert-Butylbenzene	45.4	1.00	"	50.0	ND	90.7	70-130			
Tetrachloroethene	46.3	1.00	"	50.0	ND	92.7	70-130			
Toluene	43.2	1.00	"	50.0	ND	86.3	70-130			
trans-1,2-Dichloroethene	44.6	1.00	"	50.0	ND	89.2	70-130			
trans-1,3-Dichloropropene	45.1	1.00	"	50.0	ND	90.2	70-130			
Trichloroethene	45.2	1.00	"	50.0	ND	90.3	70-130			
Trichlorofluoromethane	63.6	1.00	"	50.0	ND	127	70-130			
Vinyl chloride	61.0	1.00	"	50.0	ND	122	70-130			
o-Xylene	43.7	1.00	"	50.0	ND	87.3	70-130			
m,p-Xylene	85.8	2.00	"	100	ND	85.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	68		"	62.5		109	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.8	70-130			

Matrix Spike Dup (B5E1701-MSD1)

Source: E5E0579-01

Prepared: 05/17/2025 Analyzed: 05/20/2025

1,1,1,2-Tetrachloroethane	53.0	1.00	ug/L	50.0	ND	106	70-130	17.4	20	
1,1,1-Trichloroethane	50.0	1.00	"	50.0	ND	100	70-130	7.21	20	

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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 B5E1701 - EPA 5030B (Water)

Matrix Spike Dup (B5E1701-MSD1)

Source: E5E0579-01

Prepared: 05/17/2025 Analyzed: 05/20/2025

1,1,2,2-Tetrachloroethane	51.1	1.00	ug/L	50.0	ND	102	70-130	16.3	20	
1,1,2-Trichloroethane	51.2	1.00	"	50.0	ND	102	70-130	15.8	20	
1,1-Dichloroethane	46.1	1.00	"	50.0	ND	92.2	70-130	5.76	20	
1,1-Dichloroethene	47.8	1.00	"	50.0	ND	95.5	70-130	4.39	20	
1,1-Dichloropropene	47.9	1.00	"	50.0	ND	95.7	70-130	6.78	20	
1,2,3-Trichlorobenzene	60.0	5.00	"	50.0	ND	120	70-130	10.0	20	
1,2,3-Trichloropropane	47.6	5.00	"	50.0	ND	95.1	70-130	15.3	20	
1,2,4-Trichlorobenzene	58.7	5.00	"	50.0	ND	117	70-130	7.58	20	
1,2,4-Trimethylbenzene	54.2	1.00	"	50.0	ND	108	70-130	16.3	20	
1,2-Dibromo-3-chloropropane	56.7	5.00	"	50.0	ND	113	70-130	21.8	20	QR-02
1,2-Dibromoethane (EDB)	51.7	1.50	"	50.0	ND	103	70-130	13.9	20	
1,2-Dichlorobenzene	55.1	1.00	"	50.0	ND	110	70-130	21.9	20	QR-02
1,2-Dichloroethane	51.1	1.00	"	50.0	ND	102	70-130	4.05	20	
1,2-Dichloropropane	49.6	1.00	"	50.0	ND	99.2	70-130	3.49	20	
1,3,5-Trimethylbenzene	54.2	1.00	"	50.0	ND	108	70-130	16.5	20	
1,3-Dichlorobenzene	53.4	1.00	"	50.0	ND	107	70-130	15.7	20	
1,3-Dichloropropane	50.7	1.00	"	50.0	ND	101	70-130	14.7	20	
1,4-Dichlorobenzene	51.6	1.00	"	50.0	ND	103	70-130	15.0	20	
2,2-Dichloropropane	49.3	1.00	"	50.0	ND	98.6	70-130	6.90	20	
2-Butanone	224	5.00	"	250	ND	89.8	70-130	1.97	20	
2-Chlorotoluene	51.5	1.00	"	50.0	ND	103	70-130	16.2	20	
2-Hexanone	240	6.00	"	250	ND	96.1	70-130	15.2	20	
4-Chlorotoluene	52.9	1.00	"	50.0	ND	106	70-130	15.5	20	
4-Isopropyltoluene	54.4	1.00	"	50.0	ND	109	70-130	15.7	20	
4-Methyl-2-pentanone	257	5.00	"	250	ND	103	70-130	3.09	20	
Acetone	251	8.00	"	250	10.5	96.1	70-130	0.509	20	

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 Project: PROJ-054017

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5E1701 - EPA 5030B (Water)

Matrix Spike Dup (B5E1701-MSD1)

Source: E5E0579-01

Prepared: 05/17/2025 Analyzed: 05/20/2025

Benzene	47.2	1.00	ug/L	50.0	0.850	92.7	70-130	4.95	20	
Bromobenzene	49.8	1.00	"	50.0	ND	99.6	70-130	15.0	20	
Bromochloromethane	48.1	1.00	"	50.0	ND	96.1	70-130	5.49	20	
Bromodichloromethane	51.3	1.00	"	50.0	ND	103	70-130	2.60	20	
Bromoform	55.4	1.00	"	50.0	ND	111	70-130	16.1	20	
Bromomethane	43.4	1.00	"	50.0	ND	86.8	70-130	31.0	20	QR-02
Carbon disulfide	48.9	5.00	"	50.0	ND	97.8	70-130	5.35	20	
Carbon tetrachloride	52.9	1.00	"	50.0	ND	106	70-130	8.04	20	
Chlorobenzene	50.2	1.00	"	50.0	ND	100	70-130	14.3	20	
Chloroethane	45.8	1.00	"	50.0	ND	91.7	70-130	32.5	20	QR-02
Chloroform	48.2	1.00	"	50.0	ND	96.3	70-130	5.22	20	
Chloromethane	42.0	1.00	"	50.0	ND	84.0	70-130	30.9	20	QR-02
cis-1,2-Dichloroethene	47.1	1.00	"	50.0	ND	94.1	70-130	5.17	20	
cis-1,3-Dichloropropene	51.6	1.00	"	50.0	ND	103	70-130	6.88	20	
Dibromochloromethane	56.2	1.00	"	50.0	ND	112	70-130	15.9	20	
Dibromomethane	51.5	1.00	"	50.0	ND	103	70-130	3.74	20	
Ethylbenzene	51.1	1.00	"	50.0	ND	102	70-130	17.5	20	
Hexachlorobutadiene	60.6	5.00	"	50.0	ND	121	70-130	11.3	20	
Iodomethane	48.5	10.0	"	50.0	ND	97.0	70-130	5.03	20	
Isopropylbenzene	52.3	1.00	"	50.0	ND	105	70-130	16.9	20	
Methylene Chloride	45.0	15.0	"	50.0	ND	90.0	70-130	4.38	20	
Methyl tert-Butyl Ether	40.7	1.00	"	50.0	ND	81.4	70-130	4.19	20	
Naphthalene	55.6	4.00	"	50.0	ND	111	70-130	5.74	20	
n-Butylbenzene	61.7	1.00	"	50.0	ND	123	70-130	24.9	20	QR-02
n-Propylbenzene	52.7	1.00	"	50.0	ND	105	70-130	16.6	20	
sec-Butylbenzene	53.9	1.00	"	50.0	ND	108	70-130	17.1	20	

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5E1701 - EPA 5030B (Water)

Matrix Spike Dup (B5E1701-MSD1)

Source: E5E0579-01

Prepared: 05/17/2025 Analyzed: 05/20/2025

Styrene	50.5	1.00	ug/L	50.0	ND	101	70-130	16.2	20	
tert-Butylbenzene	53.9	1.00	"	50.0	ND	108	70-130	17.3	20	
Tetrachloroethene	54.8	1.00	"	50.0	ND	110	70-130	16.8	20	
Toluene	50.8	1.00	"	50.0	ND	102	70-130	16.2	20	
trans-1,2-Dichloroethene	46.9	1.00	"	50.0	ND	93.8	70-130	5.00	20	
trans-1,3-Dichloropropene	52.2	1.00	"	50.0	ND	104	70-130	14.6	20	
Trichloroethene	52.4	1.00	"	50.0	ND	105	70-130	14.7	20	
Trichlorofluoromethane	45.4	1.00	"	50.0	ND	90.9	70-130	33.4	20	QR-02
Vinyl chloride	44.5	1.00	"	50.0	ND	89.0	70-130	31.3	20	QR-02
o-Xylene	51.9	1.00	"	50.0	ND	104	70-130	17.3	20	
m,p-Xylene	102	2.00	"	100	ND	102	70-130	16.9	20	
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.6	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.1	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.6	70-130			

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North Little Rock AR 72118

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

Notes and Definitions

U Sample is Non-Detect.

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

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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