



Alliance Technical Group - Akron  
3310 Win St.  
Cuyahoga Falls, Ohio 44223  
TEL: (330) 253-8211  
Website: <http://www.settek.com>

April 24, 2026

Kevin Summerville  
Columbiana County Health District  
7360 SR 45  
P.O. Box 309  
Lisbon, OH 44432  
TEL:  
FAX:

RE: East Palestine

Dear Kevin Summerville:

Order No.: 26041532

Alliance Technical Group - Akron received 3 sample(s) on 4/20/2026 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

Quality control data is within laboratory defined or method specified acceptance limits except where noted.

If you have any questions regarding these tests results, please feel free to call the laboratory.

Sincerely,

A handwritten signature in black ink that reads "Holly Florea". The signature is written in a cursive, flowing style.

Holly Florea

Project Manager

3310 Win St.  
Cuyahoga Falls, Ohio 44223

Arkansas 88-0735, California 2943, Colorado, Connecticut PH-0828, Florida NELAC E87688, Idaho OH00923, Illinois 200061, Indiana C-OH-13, ISO/IEC 17025:2017 119125 L22-544, Kansas E-10347, Kentucky (Underground Storage Tank) 3, Kentucky 90146, Maryland 339, Michigan 9988, Minnesota 1780279, Nevada OH009232020-1, New Hampshire 2996, New Jersey OH006, New York 11777, North Carolina 39705 and 631, North Dakota R-201, Ohio DW, Ohio VAP CL0052, Oklahoma 2019-155, Oregon OH200001, Pennsylvania 68-01335, Rhode Island LA000317, South Carolina 92016001, Texas T104704466-19-16, Utah OH009232020-12, Virginia VELAP 10381, West Virginia 9957C



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## Workorder Sample Summary

WO#: 26041532  
24-Apr-26

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**CLIENT:** Columbiana County Health District  
**Project:** East Palestine

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Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
26041532-001	PW-470		4/17/2026 11:15:00 AM	4/20/2026 1:00:00 PM	Drinking Water
26041532-001	PW-470		4/17/2026 11:15:00 AM	4/20/2026 1:00:00 PM	Drinking Water
26041532-001	PW-470		4/17/2026 11:15:00 AM	4/20/2026 1:00:00 PM	Drinking Water
26041532-001	PW-470		4/17/2026 11:15:00 AM	4/20/2026 1:00:00 PM	Drinking Water
26041532-002	FB-470		4/17/2026 10:50:00 AM	4/20/2026 1:00:00 PM	Drinking Water
26041532-002	FB-470		4/17/2026 10:50:00 AM	4/20/2026 1:00:00 PM	Drinking Water
26041532-002	FB-470		4/17/2026 10:50:00 AM	4/20/2026 1:00:00 PM	Drinking Water
26041532-002	FB-470		4/17/2026 10:50:00 AM	4/20/2026 1:00:00 PM	Drinking Water
26041532-003	Trip Blank			4/20/2026 1:00:00 PM	Drinking Water
26041532-003	Trip Blank			4/20/2026 1:00:00 PM	Drinking Water



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## Case Narrative

WO#: 26041532  
Date: 4/24/2026

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**CLIENT:** Columbiana County Health District  
**Project:** East Palestine

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### WorkOrder Narrative:

This report in its entirety consists of the following documents: Cover Letter, Case Narrative, Analytical Results, QC Summary Report, Applicable Accreditation Information, Chain-of-Custody, Cooler Receipt Form, and other applicable forms as necessary. All documents contain the Alliance Technical Group Work Order Number assigned to this report.

Alliance Technical Group holds the accreditations/certifications listed at the bottom of the cover letter that may or may not pertain to this report. Please refer to the "Accreditation Program Analytes Report" for accredited analytes list.

The information contained in this analytical report is the sole property of Alliance Technical Group and that of the customer. It cannot be reproduced in any form without the consent of Alliance Technical Group or the customer for which this report was issued. The results contained in this report are only representative of the samples received. Conditions can vary at different times and at different sampling conditions. Alliance Technical Group is not responsible for use or interpretation of the data included herein.

All results for solid samples are reported on an "as received" or "wet weight" basis unless indicated as "dry weight" using the "-dry" designation on the reporting units.

This report is believed to meet all of the requirements of the accrediting agency, where applicable. Any comments or problems with the analytical events associated with this report are noted below.

### WorkOrder Comments:

26041532: The lab does not routinely spike for 2-Butoxyethanol; this compound is included in the instrument initial calibration and initial calibration verification.

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Original



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# Analytical Report

(consolidated)

WO#: 26041532

Date Reported: 4/24/2026

Lab ID: 26041532-001

Collection Date: 4/17/2026 11:15:00 AM

Client Sample ID PW-470

Matrix: DRINKING WATER

Analysis	Result	MDL	PQL	Qual	Units	Dilution	Batch	Date Analyzed
<b>SYNTHETIC ORGANIC COMPOUNDS BY GC/MS (EPA 525.3)</b>					<b>EPA 525.3</b>		<b>EPA 525.3</b> Analyst: <b>JDB</b>	
1-Methylnaphthalene	ND	0.00356	0.0980		µg/L	1	95827	4/23/2026 12:23:00 AM
2-Methylnaphthalene	ND	0.00523	0.0980		µg/L	1	95827	4/23/2026 12:23:00 AM
Acenaphthene	ND	0.00463	0.0980		µg/L	1	95827	4/23/2026 12:23:00 AM
Acenaphthylene	ND	0.00318	0.0980		µg/L	1	95827	4/23/2026 12:23:00 AM
Anthracene	ND	0.00933	0.0980		µg/L	1	95827	4/23/2026 12:23:00 AM
Benz(a)anthracene	ND	0.00386	0.0980		µg/L	1	95827	4/23/2026 12:23:00 AM
Benzo(a)pyrene	ND	0.00386	0.0980		µg/L	1	95827	4/23/2026 12:23:00 AM
Benzo(b)fluoranthene	ND	0.00452	0.0980		µg/L	1	95827	4/23/2026 12:23:00 AM
Benzo(g,h,i)perylene	ND	0.00408	0.0980		µg/L	1	95827	4/23/2026 12:23:00 AM
Benzo(k)fluoranthene	ND	0.00510	0.0980		µg/L	1	95827	4/23/2026 12:23:00 AM
Chrysene	ND	0.00432	0.0980		µg/L	1	95827	4/23/2026 12:23:00 AM
Dibenz(a,h)anthracene	ND	0.00359	0.0980		µg/L	1	95827	4/23/2026 12:23:00 AM
Fluoranthene	ND	0.0302	0.0980		µg/L	1	95827	4/23/2026 12:23:00 AM
Fluorene	ND	0.00378	0.0980		µg/L	1	95827	4/23/2026 12:23:00 AM
Indeno(1,2,3-cd)pyrene	ND	0.00429	0.0980		µg/L	1	95827	4/23/2026 12:23:00 AM
Naphthalene	ND	0.0449	0.0980		µg/L	1	95827	4/23/2026 12:23:00 AM
Phenanthrene	ND	0.00383	0.0980		µg/L	1	95827	4/23/2026 12:23:00 AM
Pyrene	ND	0.00630	0.0980		µg/L	1	95827	4/23/2026 12:23:00 AM
Surr: 1,3-Dimethyl-2-nitrobenzene	113		70-130		%Rec	1	95827	4/23/2026 12:23:00 AM
Surr: Benzo(a)pyrene-d12	100		70-130		%Rec	1	95827	4/23/2026 12:23:00 AM
Surr: Triphenyl phosphate	127		70-130		%Rec	1	95827	4/23/2026 12:23:00 AM
<b>SVOC BY 8270E</b>					<b>EPA 8270E</b>		<b>EPA 3510</b> Analyst: <b>SAM</b>	
2-Butoxyethanol	ND	0.176	29.1		µg/L	1	95811	4/24/2026 6:38:00 AM
Surr: Nitrobenzene-d5	76.0		10-130		%Rec	1	95811	4/24/2026 6:38:00 AM
Surr: 2-Fluorobiphenyl	83.2		10-130		%Rec	1	95811	4/24/2026 6:38:00 AM
Surr: p-Terphenyl-d14	116		20-181		%Rec	1	95811	4/24/2026 6:38:00 AM
<b>VOC-GC/MS (524.2)</b>					<b>EPA 524.2</b>		Analyst: <b>EC</b>	
1,1-Dichloropropene	ND	0.112	0.500		µg/L	1	R234722	4/21/2026 2:42:00 AM
1,2,4-Trimethylbenzene	ND	0.172	0.500		µg/L	1	R234722	4/21/2026 2:42:00 AM
Benzene	ND	0.0967	0.500		µg/L	1	R234722	4/21/2026 2:42:00 AM
Ethylbenzene	ND	0.192	0.500		µg/L	1	R234722	4/21/2026 2:42:00 AM
m,p-Xylene	ND	0.422	0.500		µg/L	1	R234722	4/21/2026 2:42:00 AM
Naphthalene	ND	0.206	0.500		µg/L	1	R234722	4/21/2026 2:42:00 AM
o-Xylene	ND	0.211	0.500		µg/L	1	R234722	4/21/2026 2:42:00 AM
Toluene	ND	0.160	0.500		µg/L	1	R234722	4/21/2026 2:42:00 AM
Vinyl chloride	ND	0.0841	0.200		µg/L	1	R234722	4/21/2026 2:42:00 AM
Surr: 1,2-Dichlorobenzene-d4	104		70-130		%Rec	1	R234722	4/21/2026 2:42:00 AM
Surr: 4-Bromofluorobenzene	95.6		70-130		%Rec	1	R234722	4/21/2026 2:42:00 AM

<b>Qualifiers:</b>	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	M	Manual Integration used to determine area response	ND	Not Detected
	PL	Permit Limit	R	RPD outside accepted recovery limits
	RL	Reporting Detection Limit	W	Sample container temperature is out of limit as specified at testcode
	J	Analyte detected below quantitation limits		



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# Analytical Report

(consolidated)

WO#: **26041532**

Date Reported: **4/24/2026**

**Lab ID:** 26041532-001

**Collection Date:** 4/17/2026 11:15:00 AM

**Client Sample ID** PW-470

**Matrix:** DRINKING WATER

Analysis	Result	MDL	PQL	Qual	Units	Dilution	Batch	Date Analyzed
<b>VOC BY GC/MS (8260D)</b>					<b>EPA 8260D</b>		<b>EPA 5030 B</b>	<b>Analyst: RD</b>
2-Ethylhexyl acrylate	ND	0.114	0.500		µg/L	1	R234726	4/20/2026 4:09:00 PM
n-Butyl acrylate	ND	0.114	1.00		µg/L	1	R234726	4/20/2026 4:09:00 PM
Surr: 4-Bromofluorobenzene	95.8		70-130		%Rec	1	R234726	4/20/2026 4:09:00 PM
Surr: Dibromofluoromethane	103		70-130		%Rec	1	R234726	4/20/2026 4:09:00 PM
Surr: Toluene-d8	101		70-130		%Rec	1	R234726	4/20/2026 4:09:00 PM

<b>Qualifiers:</b>	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	M	Manual Integration used to determine area response	ND	Not Detected
	PL	Permit Limit	R	RPD outside accepted recovery limits
	RL	Reporting Detection Limit	W	Sample container temperature is out of limit as specified at testcode
	J	Analyte detected below quantitation limits		



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# Analytical Report

(consolidated)

WO#: 26041532

Date Reported: 4/24/2026

Lab ID: 26041532-002

Collection Date: 4/17/2026 10:50:00 AM

Client Sample ID FB-470

Matrix: DRINKING WATER

Analysis	Result	MDL	PQL	Qual	Units	Dilution	Batch	Date Analyzed
<b>SYNTHETIC ORGANIC COMPOUNDS BY GC/MS (EPA 525.3)</b>					<b>EPA 525.3</b>		<b>EPA 525.3</b>	Analyst: <b>JDB</b>
1-Methylnaphthalene	ND	0.00360	0.0990		µg/L	1	95827	4/23/2026 12:56:00 AM
2-Methylnaphthalene	ND	0.00528	0.0990		µg/L	1	95827	4/23/2026 12:56:00 AM
Acenaphthene	ND	0.00468	0.0990		µg/L	1	95827	4/23/2026 12:56:00 AM
Acenaphthylene	ND	0.00321	0.0990		µg/L	1	95827	4/23/2026 12:56:00 AM
Anthracene	ND	0.00943	0.0990		µg/L	1	95827	4/23/2026 12:56:00 AM
Benz(a)anthracene	ND	0.00390	0.0990		µg/L	1	95827	4/23/2026 12:56:00 AM
Benzo(a)pyrene	ND	0.00389	0.0990		µg/L	1	95827	4/23/2026 12:56:00 AM
Benzo(b)fluoranthene	ND	0.00456	0.0990		µg/L	1	95827	4/23/2026 12:56:00 AM
Benzo(g,h,i)perylene	ND	0.00412	0.0990		µg/L	1	95827	4/23/2026 12:56:00 AM
Benzo(k)fluoranthene	ND	0.00515	0.0990		µg/L	1	95827	4/23/2026 12:56:00 AM
Chrysene	ND	0.00436	0.0990		µg/L	1	95827	4/23/2026 12:56:00 AM
Dibenz(a,h)anthracene	ND	0.00362	0.0990		µg/L	1	95827	4/23/2026 12:56:00 AM
Fluoranthene	ND	0.0305	0.0990		µg/L	1	95827	4/23/2026 12:56:00 AM
Fluorene	ND	0.00381	0.0990		µg/L	1	95827	4/23/2026 12:56:00 AM
Indeno(1,2,3-cd)pyrene	ND	0.00433	0.0990		µg/L	1	95827	4/23/2026 12:56:00 AM
Naphthalene	ND	0.0454	0.0990		µg/L	1	95827	4/23/2026 12:56:00 AM
Phenanthrene	ND	0.00387	0.0990		µg/L	1	95827	4/23/2026 12:56:00 AM
Pyrene	ND	0.00636	0.0990		µg/L	1	95827	4/23/2026 12:56:00 AM
Surr: 1,3-Dimethyl-2-nitrobenzene	92.4		70-130		%Rec	1	95827	4/23/2026 12:56:00 AM
Surr: Benzo(a)pyrene-d12	91.6		70-130		%Rec	1	95827	4/23/2026 12:56:00 AM
Surr: Triphenyl phosphate	103		70-130		%Rec	1	95827	4/23/2026 12:56:00 AM
<b>SVOC BY 8270E</b>					<b>EPA 8270E</b>		<b>EPA 3510</b>	Analyst: <b>SAM</b>
2-Butoxyethanol	ND	0.181	30.0		µg/L	1	95811	4/24/2026 7:11:00 AM
Surr: Nitrobenzene-d5	76.0		10-130		%Rec	1	95811	4/24/2026 7:11:00 AM
Surr: 2-Fluorobiphenyl	84.6		10-130		%Rec	1	95811	4/24/2026 7:11:00 AM
Surr: p-Terphenyl-d14	107		20-181		%Rec	1	95811	4/24/2026 7:11:00 AM
<b>VOC-GC/MS (524.2)</b>					<b>EPA 524.2</b>			Analyst: <b>EC</b>
1,1-Dichloropropene	ND	0.112	0.500		µg/L	1	R234722	4/21/2026 3:10:00 AM
1,2,4-Trimethylbenzene	ND	0.172	0.500		µg/L	1	R234722	4/21/2026 3:10:00 AM
Benzene	ND	0.0967	0.500		µg/L	1	R234722	4/21/2026 3:10:00 AM
Ethylbenzene	ND	0.192	0.500		µg/L	1	R234722	4/21/2026 3:10:00 AM
m,p-Xylene	ND	0.422	0.500		µg/L	1	R234722	4/21/2026 3:10:00 AM
Naphthalene	ND	0.206	0.500		µg/L	1	R234722	4/21/2026 3:10:00 AM
o-Xylene	ND	0.211	0.500		µg/L	1	R234722	4/21/2026 3:10:00 AM
Toluene	ND	0.160	0.500		µg/L	1	R234722	4/21/2026 3:10:00 AM
Vinyl chloride	ND	0.0841	0.200		µg/L	1	R234722	4/21/2026 3:10:00 AM
Surr: 1,2-Dichlorobenzene-d4	109		70-130		%Rec	1	R234722	4/21/2026 3:10:00 AM
Surr: 4-Bromofluorobenzene	95.9		70-130		%Rec	1	R234722	4/21/2026 3:10:00 AM

<b>Qualifiers:</b>	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	M	Manual Integration used to determine area response	ND	Not Detected
	PL	Permit Limit	R	RPD outside accepted recovery limits
	RL	Reporting Detection Limit	W	Sample container temperature is out of limit as specified at testcode
	J	Analyte detected below quantitation limits		



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# Analytical Report

(consolidated)

WO#: **26041532**

Date Reported: **4/24/2026**

**Lab ID:** 26041532-002

**Collection Date:** 4/17/2026 10:50:00 AM

**Client Sample ID** FB-470

**Matrix:** DRINKING WATER

Analysis	Result	MDL	PQL	Qual	Units	Dilution	Batch	Date Analyzed
<b>VOC BY GC/MS (8260D)</b>					<b>EPA 8260D</b>		<b>EPA 5030 B</b>	<b>Analyst: RD</b>
2-Ethylhexyl acrylate	ND	0.114	0.500		µg/L	1	R234726	4/20/2026 4:36:00 PM
n-Butyl acrylate	ND	0.114	1.00		µg/L	1	R234726	4/20/2026 4:36:00 PM
Surr: 4-Bromofluorobenzene	90.6		70-130		%Rec	1	R234726	4/20/2026 4:36:00 PM
Surr: Dibromofluoromethane	102		70-130		%Rec	1	R234726	4/20/2026 4:36:00 PM
Surr: Toluene-d8	102		70-130		%Rec	1	R234726	4/20/2026 4:36:00 PM

<b>Qualifiers:</b>	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	M	Manual Integration used to determine area response	ND	Not Detected
	PL	Permit Limit	R	RPD outside accepted recovery limits
	RL	Reporting Detection Limit	W	Sample container temperature is out of limit as specified at testcode
	J	Analyte detected below quantitation limits		



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# Analytical Report

(consolidated)

WO#: **26041532**

Date Reported: **4/24/2026**

**Lab ID:** 26041532-003

**Collection Date:**

**Client Sample ID** Trip Blank

**Matrix:** DRINKING WATER

Analysis	Result	MDL	PQL	Qual	Units	Dilution	Batch	Date Analyzed
<b>VOC-GC/MS (524.2)</b>				<b>EPA 524.2</b>				<b>Analyst: EC</b>
1,1-Dichloropropene	ND	0.112	0.500		µg/L	1	R234722	4/20/2026 11:27:00 PM
1,2,4-Trimethylbenzene	ND	0.172	0.500		µg/L	1	R234722	4/20/2026 11:27:00 PM
Benzene	ND	0.0967	0.500		µg/L	1	R234722	4/20/2026 11:27:00 PM
Ethylbenzene	ND	0.192	0.500		µg/L	1	R234722	4/20/2026 11:27:00 PM
m,p-Xylene	ND	0.422	0.500		µg/L	1	R234722	4/20/2026 11:27:00 PM
Naphthalene	ND	0.206	0.500		µg/L	1	R234722	4/20/2026 11:27:00 PM
o-Xylene	ND	0.211	0.500		µg/L	1	R234722	4/20/2026 11:27:00 PM
Toluene	ND	0.160	0.500		µg/L	1	R234722	4/20/2026 11:27:00 PM
Vinyl chloride	ND	0.0841	0.200		µg/L	1	R234722	4/20/2026 11:27:00 PM
Surr: 1,2-Dichlorobenzene-d4	98.1		70-130		%Rec	1	R234722	4/20/2026 11:27:00 PM
Surr: 4-Bromofluorobenzene	97.5		70-130		%Rec	1	R234722	4/20/2026 11:27:00 PM
<b>VOC BY GC/MS (8260D)</b>				<b>EPA 8260D</b>		<b>EPA 5030 B Analyst: RD</b>		
2-Ethylhexyl acrylate	ND	0.114	0.500		µg/L	1	R234726	4/20/2026 5:04:00 PM
n-Butyl acrylate	ND	0.114	1.00		µg/L	1	R234726	4/20/2026 5:04:00 PM
Surr: 4-Bromofluorobenzene	97.0		70-130		%Rec	1	R234726	4/20/2026 5:04:00 PM
Surr: Dibromofluoromethane	101		70-130		%Rec	1	R234726	4/20/2026 5:04:00 PM
Surr: Toluene-d8	100		70-130		%Rec	1	R234726	4/20/2026 5:04:00 PM

**Qualifiers:**

- |    |  |    |   |
|----|--|----|---|
| E  | Value above quantitation range                     | H  | Holding times for preparation or analysis exceeded                    |
| M  | Manual Integration used to determine area response | ND | Not Detected  |
| PL | Permit Limit                                       | R  | RPD outside accepted recovery limits                                  |
| RL | Reporting Detection Limit                          | W  | Sample container temperature is out of limit as specified at testcode |
| J  | Analyte detected below quantitation limits         |    |   |



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# QC SUMMARY REPORT

WO#: 26041532

24-Apr-26

**Client:** Columbiana County Health District  
**Project:** East Palestine

**BatchID:** 95811

Sample ID: <b>MB-95811</b>	SampType: <b>MBLK</b>	TestCode: <b>SVOC-MSTR</b>	Units: <b>µg/L</b>	Prep Date: <b>4/20/2026</b>	RunNo: <b>234942</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>95811</b>	TestNo: <b>SW8270</b>	<b>SW3510C</b>	Analysis Date: <b>4/22/2026</b>	SeqNo: <b>6161875</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Butoxyethanol	ND	30.0		0	0						
Surr: 2-Fluorophenol	0.0242		0.05000		48.4	10	130				
Surr: Phenol-d6	0.0160		0.05000		31.9	10	130				
Surr: Nitrobenzene-d5	0.0434		0.05000		86.9	10	130				
Surr: 2,4,6-Tribromophenol	0.0381		0.05000		76.2	16	151				
Surr: 2-Fluorobiphenyl	0.0407		0.05000		81.4	10	130				
Surr: p-Terphenyl-d14	0.0531		0.05000		106	20	181				

Sample ID: <b>LCS-95811</b>	SampType: <b>LCS</b>	TestCode: <b>SVOC-MSTR</b>	Units: <b>%Rec</b>	Prep Date: <b>4/20/2026</b>	RunNo: <b>234942</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>95811</b>	TestNo: <b>SW8270</b>	<b>SW3510C</b>	Analysis Date: <b>4/22/2026</b>	SeqNo: <b>6161876</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 2-Fluorophenol	0.0313		0.05000		62.5	10	130				
Surr: Phenol-d6	0.0202		0.05000		40.5	10	130				
Surr: Nitrobenzene-d5	0.0486		0.05000		97.2	10	130				
Surr: 2,4,6-Tribromophenol	0.0494		0.05000		98.7	16	151				
Surr: 2-Fluorobiphenyl	0.0481		0.05000		96.3	10	130				
Surr: p-Terphenyl-d14	0.0565		0.05000		113	20	181				

Sample ID: <b>26041406-004BMS</b>	SampType: <b>MS</b>	TestCode: <b>SVOC-MSTR</b>	Units: <b>%Rec</b>	Prep Date: <b>4/20/2026</b>	RunNo: <b>234942</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>95811</b>	TestNo: <b>SW8270</b>	<b>SW3510C</b>	Analysis Date: <b>4/23/2026</b>	SeqNo: <b>6161893</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

**Qualifiers:**

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area respor
ND	Not Detected	PL	Permit Limit	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	W	Sample container temperature is out of limit as specified at testcode	J	Analyte detected below quantitation limits

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 Website: <http://www.settek.com>

# QC SUMMARY REPORT

WO#: 26041532  
 24-Apr-26

**Client:** Columbiana County Health District

**Project:** East Palestine

**BatchID:** 95811

Sample ID: <b>26041406-004BMS</b>	SampType: <b>MS</b>	TestCode: <b>SVOC-MSTR</b>	Units: <b>%Rec</b>	Prep Date: <b>4/20/2026</b>	RunNo: <b>234942</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>95811</b>	TestNo: <b>SW8270</b>	<b>SW3510C</b>	Analysis Date: <b>4/23/2026</b>	SeqNo: <b>6161893</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 2-Fluorophenol	0.0203		0.04854		41.8	10	130				
Surr: Phenol-d6	0.0130		0.04854		26.7	10	130				
Surr: Nitrobenzene-d5	0.0341		0.04854		70.3	10	130				
Surr: 2,4,6-Tribromophenol	0.0354		0.04854		73.0	16	151				
Surr: 2-Fluorobiphenyl	0.0341		0.04854		70.3	10	130				
Surr: p-Terphenyl-d14	0.0385		0.04854		79.3	20	181				

Sample ID: <b>26041406-004BMSD</b>	SampType: <b>MSD</b>	TestCode: <b>SVOC-MSTR</b>	Units: <b>%Rec</b>	Prep Date: <b>4/20/2026</b>	RunNo: <b>234942</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>95811</b>	TestNo: <b>SW8270</b>	<b>SW3510C</b>	Analysis Date: <b>4/23/2026</b>	SeqNo: <b>6161894</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 2-Fluorophenol	0.0227		0.04854		46.7	10	130		0		
Surr: Phenol-d6	0.0147		0.04854		30.3	10	130		0		
Surr: Nitrobenzene-d5	0.0367		0.04854		75.5	10	130		0		
Surr: 2,4,6-Tribromophenol	0.0406		0.04854		83.6	16	151		0		
Surr: 2-Fluorobiphenyl	0.0373		0.04854		76.7	10	130		0		
Surr: p-Terphenyl-d14	0.0435		0.04854		89.7	20	181		0		

<b>Qualifiers:</b>	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area respor
	ND	Not Detected	PL	Permit Limit	R	RPD outside accepted recovery limits
	RL	Reporting Detection Limit	W	Sample container temperature is out of limit as specified at testcode	J	Analyte detected below quantitation limits

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# QC SUMMARY REPORT

WO#: 26041532  
 24-Apr-26

**Client:** Columbiana County Health District  
**Project:** East Palestine

**BatchID:** 95827

Sample ID: <b>MB-95827</b>	SampType: <b>MBLK</b>	TestCode: <b>SVOC_DW(52)</b>	Units: <b>µg/L</b>	Prep Date: <b>4/21/2026</b>	RunNo: <b>234965</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>95827</b>	TestNo: <b>E525</b>	<b>525</b>	Analysis Date: <b>4/22/2026</b>	SeqNo: <b>6162257</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	ND	0.100									
2-Methylnaphthalene	ND	0.100									
Acenaphthene	ND	0.100									
Acenaphthylene	ND	0.100									
Anthracene	ND	0.100									
Benz(a)anthracene	ND	0.100									
Benzo(a)pyrene	ND	0.100									
Benzo(b)fluoranthene	ND	0.100									
Benzo(g,h,i)perylene	ND	0.100									
Benzo(k)fluoranthene	ND	0.100									
Chrysene	ND	0.100									
Dibenz(a,h)anthracene	ND	0.100									
Fluoranthene	ND	0.100									
Fluorene	ND	0.100									
Indeno(1,2,3-cd)pyrene	ND	1.00									
Naphthalene	ND	0.100									
Phenanthrene	ND	0.100									
Pyrene	ND	0.100									
Surr: 1,3-Dimethyl-2-nitrobenzene	4.70		5.000		94.0	70	130				
Surr: Benzo(a)pyrene-d12	4.92		5.000		98.4	70	130				
Surr: Triphenyl phosphate	5.40		5.000		108	70	130				

<b>Qualifiers:</b>	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area respo
	ND	Not Detected	PL	Permit Limit	R	RPD outside accepted recovery limits
	RL	Reporting Detection Limit	W	Sample container temperature is out of limit as specified at testcode	J	Analyte detected below quantitation limits

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# QC SUMMARY REPORT

WO#: 26041532  
 24-Apr-26

**Client:** Columbiana County Health District  
**Project:** East Palestine

**BatchID:** 95827

Sample ID: <b>LCS-95827</b>	SampType: <b>LCS</b>	TestCode: <b>SVOC_DW(52</b>	Units: <b>µg/L</b>	Prep Date: <b>4/21/2026</b>	RunNo: <b>234965</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>95827</b>	TestNo: <b>E525</b>	<b>525</b>	Analysis Date: <b>4/22/2026</b>	SeqNo: <b>6162259</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	4.09	0.100	5.000	0	81.8	70	130				
2-Methylnaphthalene	4.19	0.100	5.000	0	83.8	70	130				
Acenaphthene	4.17	0.100	5.000	0	83.4	70	130				
Acenaphthylene	4.15	0.100	5.000	0	83.0	70	130				
Anthracene	4.38	0.100	5.000	0	87.6	70	130				
Benz(a)anthracene	4.43	0.100	5.000	0	88.6	70	130				
Benzo(a)pyrene	4.13	0.100	5.000	0	82.6	70	130				
Benzo(b)fluoranthene	4.18	0.100	5.000	0	83.6	70	130				
Benzo(g,h,i)perylene	4.24	0.100	5.000	0	84.8	70	130				
Benzo(k)fluoranthene	4.58	0.100	5.000	0	91.6	70	130				
Chrysene	4.91	0.100	5.000	0	98.2	70	130				
Dibenz(a,h)anthracene	4.03	0.100	5.000	0	80.6	70	130				
Fluoranthene	4.28	0.100	5.000	0	85.6	70	130				
Fluorene	4.40	0.100	5.000	0	88.0	70	130				
Indeno(1,2,3-cd)pyrene	3.99	1.00	5.000	0	79.8	70	130				m
Naphthalene	3.93	0.100	5.000	0	78.6	70	130				
Phenanthrene	4.36	0.100	5.000	0	87.2	70	130				
Pyrene	4.28	0.100	5.000	0	85.6	70	130				
Surr: 1,3-Dimethyl-2-nitrobenzene	4.52		5.000		90.4	70	130				
Surr: Benzo(a)pyrene-d12	4.53		5.000		90.6	70	130				
Surr: Triphenyl phosphate	4.65		5.000		93.0	70	130				

**Qualifiers:**

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area respo
ND	Not Detected	PL	Permit Limit	R	RPD outside accepted recovery limits
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# QC SUMMARY REPORT

WO#: 26041532

24-Apr-26

**Client:** Columbiana County Health District

**Project:** East Palestine

**BatchID:** 95827

Sample ID: <b>LCSD-95827</b>	SampType: <b>LCSD</b>	TestCode: <b>SVOC_DW(52</b>	Units: <b>µg/L</b>	Prep Date: <b>4/21/2026</b>	RunNo: <b>234965</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>95827</b>	TestNo: <b>E525</b>	<b>525</b>	Analysis Date: <b>4/22/2026</b>	SeqNo: <b>6162261</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	4.41	0.100	5.000	0	88.2	70	130	4.040	8.76	30	
2-Methylnaphthalene	4.60	0.100	5.000	0	92.0	70	130	4.170	9.81	30	
Acenaphthene	4.44	0.100	5.000	0	88.8	70	130	4.170	6.27	30	
Acenaphthylene	4.38	0.100	5.000	0	87.6	70	130	4.150	5.39	30	
Anthracene	4.66	0.100	5.000	0	93.2	70	130	4.370	6.42	30	
Benz(a)anthracene	4.62	0.100	5.000	0	92.4	70	130	4.420	4.42	30	
Benzo(a)pyrene	4.27	0.100	5.000	0	85.4	70	130	4.140	3.09	30	
Benzo(b)fluoranthene	4.32	0.100	5.000	0	86.4	70	130	4.200	2.82	30	
Benzo(g,h,i)perylene	4.34	0.100	5.000	0	86.8	70	130	4.240	2.33	30	
Benzo(k)fluoranthene	4.76	0.100	5.000	0	95.2	70	130	4.670	1.91	30	
Chrysene	5.10	0.100	5.000	0	102	70	130	4.940	3.19	30	
Dibenz(a,h)anthracene	4.09	0.100	5.000	0	81.8	70	130	4.030	1.48	30	
Fluoranthene	5.09	0.100	5.000	0	102	70	130	4.720	7.54	30	
Fluorene	4.65	0.100	5.000	0	93.0	70	130	4.370	6.21	30	
Indeno(1,2,3-cd)pyrene	4.13	1.00	5.000	0	82.6	70	130	4.100	0.729	30	m
Naphthalene	4.25	0.100	5.000	0	85.0	70	130	3.900	8.59	30	
Phenanthrene	4.62	0.100	5.000	0	92.4	70	130	4.380	5.33	30	
Pyrene	5.18	0.100	5.000	0	104	70	130	4.790	7.82	30	
Surr: 1,3-Dimethyl-2-nitrobenzene	4.76		5.000		95.2	70	130		0	30	
Surr: Benzo(a)pyrene-d12	4.52		5.000		90.4	70	130		0	30	
Surr: Triphenyl phosphate	4.82		5.000		96.4	70	130		0	30	

**Qualifiers:**

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area respo
ND	Not Detected	PL	Permit Limit	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	W	Sample container temperature is out of limit as specified at testcode	J	Analyte detected below quantitation limits

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 Website: <http://www.settek.com>

# QC SUMMARY REPORT

WO#: 26041532  
 24-Apr-26

**Client:** Columbiana County Health District  
**Project:** East Palestine

**BatchID:** 95827

Sample ID: <b>26041406-004AMS</b>	SampType: <b>MS</b>	TestCode: <b>SVOC_DW(52)</b>	Units: <b>µg/L</b>	Prep Date: <b>4/21/2026</b>	RunNo: <b>234965</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>95827</b>	TestNo: <b>E525</b>	<b>525</b>	Analysis Date: <b>4/22/2026</b>	SeqNo: <b>6162266</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	5.02	0.0962	4.808	0	104	70	130				
2-Methylnaphthalene	5.29	0.0962	4.808	0	110	70	130				
Acenaphthene	5.07	0.0962	4.808	0	105	70	130				
Acenaphthylene	5.01	0.0962	4.808	0	104	70	130				
Anthracene	5.27	0.0962	4.808	0	110	70	130				
Benz(a)anthracene	4.67	0.0962	4.808	0	97.2	70	130				
Benzo(a)pyrene	4.06	0.0962	4.808	0	84.4	70	130				
Benzo(b)fluoranthene	4.12	0.0962	4.808	0	85.8	70	130				
Benzo(g,h,i)perylene	3.97	0.0962	4.808	0	82.6	70	130				
Benzo(k)fluoranthene	4.48	0.0962	4.808	0	93.2	70	130				
Chrysene	5.10	0.0962	4.808	0	106	70	130				
Dibenz(a,h)anthracene	3.93	0.0962	4.808	0	81.8	70	130				
Fluoranthene	5.25	0.0962	4.808	0	109	70	130				
Fluorene	5.33	0.0962	4.808	0	111	70	130				
Indeno(1,2,3-cd)pyrene	3.85	0.962	4.808	0	80.0	70	130				m
Naphthalene	4.83	0.0962	4.808	0	100	70	130				
Phenanthrene	5.26	0.0962	4.808	0	109	70	130				
Pyrene	5.21	0.0962	4.808	0	108	70	130				
Surr: 1,3-Dimethyl-2-nitrobenzene	5.23		4.808		109	70	130				
Surr: Benzo(a)pyrene-d12	4.00		4.808		83.2	70	130				
Surr: Triphenyl phosphate	5.42		4.808		113	70	130				

**Qualifiers:**

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area respo
ND	Not Detected	PL	Permit Limit	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	W	Sample container temperature is out of limit as specified at testcode	J	Analyte detected below quantitation limits

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# QC SUMMARY REPORT

WO#: 26041532  
 24-Apr-26

**Client:** Columbiana County Health District  
**Project:** East Palestine

**BatchID:** 95827

Sample ID: 26041406-004AMSD	SampType: MSD	TestCode: SVOC_DW(52)	Units: µg/L	Prep Date: 4/21/2026	RunNo: 234965						
Client ID: BatchQC	Batch ID: 95827	TestNo: E525	525	Analysis Date: 4/22/2026	SeqNo: 6162267						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	4.71	0.0971	4.854	0	97.0	70	130	5.019	6.38	30	
2-Methylnaphthalene	4.89	0.0971	4.854	0	101	70	130	5.288	7.76	30	
Acenaphthene	4.75	0.0971	4.854	0	97.8	70	130	5.067	6.52	30	
Acenaphthylene	4.71	0.0971	4.854	0	97.0	70	130	5.010	6.19	30	
Anthracene	5.02	0.0971	4.854	0	103	70	130	5.269	4.86	30	
Benz(a)anthracene	4.29	0.0971	4.854	0	88.4	70	130	4.673	8.52	30	
Benzo(a)pyrene	3.67	0.0971	4.854	0	75.6	70	130	4.058	10.0	30	
Benzo(b)fluoranthene	3.71	0.0971	4.854	0	76.4	70	130	4.125	10.6	30	
Benzo(g,h,i)perylene	3.52	0.0971	4.854	0	72.6	70	130	3.971	11.9	30	
Benzo(k)fluoranthene	4.02	0.0971	4.854	0	82.8	70	130	4.481	10.9	30	
Chrysene	4.67	0.0971	4.854	0	96.2	70	130	5.096	8.73	30	
Dibenz(a,h)anthracene	3.38	0.0971	4.854	0	69.6	70	130	3.933	15.2	30	S
Fluoranthene	4.94	0.0971	4.854	0	102	70	130	5.250	6.05	30	
Fluorene	5.01	0.0971	4.854	0	103	70	130	5.327	6.14	30	
Indeno(1,2,3-cd)pyrene	3.36	0.0971	4.854	0	69.2	70	130	3.846	13.5	30	Sm
Naphthalene	4.51	0.0971	4.854	0	93.0	70	130	4.827	6.69	30	
Phenanthrene	4.98	0.0971	4.854	0	103	70	130	5.260	5.45	30	
Pyrene	4.91	0.0971	4.854	0	101	70	130	5.212	5.91	30	
Surr: 1,3-Dimethyl-2-nitrobenzene	5.02		4.854		103	70	130		0	0	
Surr: Benzo(a)pyrene-d12	3.61		4.854		74.4	70	130		0	0	
Surr: Triphenyl phosphate	5.19		4.854		107	70	130		0	0	

**Qualifiers:**

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	W	Sample container temperature is out of limit as specified at testcode	J	Analyte detected below quantitation limits

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# QC SUMMARY REPORT

WO#: 26041532  
 24-Apr-26

**Client:** Columbiana County Health District  
**Project:** East Palestine

**BatchID:** R232523

Sample ID: <b>26031296-001ADUP</b>	SampType: <b>DUP</b>	TestCode: <b>VOC_DW(524)</b>	Units: <b>%Rec</b>	Prep Date:	RunNo: <b>232523</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>R232523</b>	TestNo: <b>E524.2</b>	Analysis Date: <b>3/19/2026</b>	SeqNo: <b>6107885</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 1,2-Dichlorobenzene-d4	8.64		10.00		86.4	70	130		0	20	
Surr: 4-Bromofluorobenzene	8.84		10.00		88.4	70	130		0	20	

Sample ID: <b>LCS-R232523</b>	SampType: <b>LCS</b>	TestCode: <b>VOC_DW(524)</b>	Units: <b>%Rec</b>	Prep Date:	RunNo: <b>232523</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>R232523</b>	TestNo: <b>E524.2</b>	Analysis Date: <b>3/19/2026</b>	SeqNo: <b>6108629</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 1,2-Dichlorobenzene-d4	9.62		10.00		96.2	70	130				
Surr: 4-Bromofluorobenzene	9.97		10.00		99.7	70	130				

Sample ID: <b>MB-R232523</b>	SampType: <b>MBLK</b>	TestCode: <b>VOC_DW(524)</b>	Units: <b>%Rec</b>	Prep Date:	RunNo: <b>232523</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>R232523</b>	TestNo: <b>E524.2</b>	Analysis Date: <b>3/19/2026</b>	SeqNo: <b>6108631</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 1,2-Dichlorobenzene-d4	8.94		10.00		89.4	70	130				
Surr: 4-Bromofluorobenzene	9.48		10.00		94.8	70	130				

**Qualifiers:**

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area respo
ND	Not Detected	PL	Permit Limit	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	W	Sample container temperature is out of limit as specified at testcode	J	Analyte detected below quantitation limits

Original



Alliance Technical Group - Akron  
 3310 Win St.  
 Cuyahoga Falls, Ohio 44223  
 TEL: (330) 253-8211 FAX: (330) 253-4489  
 Website: <http://www.settek.com>

# QC SUMMARY REPORT

WO#: 26041532  
 24-Apr-26

**Client:** Columbiana County Health District

**Project:** East Palestine

**BatchID:** R234722

Sample ID: <b>LCS-R234722</b>	SampType: <b>LCS</b>	TestCode: <b>VOC_DW(524)</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>234722</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>R234722</b>	TestNo: <b>E524.2</b>	Analysis Date: <b>4/20/2026</b>	SeqNo: <b>6156997</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloropropene	4.89	0.500	5.000	0	97.8	70	130				
1,2,4-Trimethylbenzene	5.50	0.500	5.000	0	110	70	130				
Benzene	5.22	0.500	5.000	0	104	70	130				
Ethylbenzene	5.27	0.500	5.000	0	105	70	130				
m,p-Xylene	10.3	0.500	10.00	0	103	70	130				
Naphthalene	5.96	0.500	5.000	0	119	70	130				
o-Xylene	5.50	0.500	5.000	0	110	70	130				
Toluene	5.17	0.500	5.000	0	103	70	130				
Vinyl chloride	4.00	0.500	5.000	0	80.1	70	130				
Surr: 1,2-Dichlorobenzene-d4	12.7		10.00		127	70	130				
Surr: 4-Bromofluorobenzene	11.5		10.00		115	70	130				

Sample ID: <b>MB-R234722</b>	SampType: <b>MBLK</b>	TestCode: <b>VOC_DW(524)</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>234722</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>R234722</b>	TestNo: <b>E524.2</b>	Analysis Date: <b>4/20/2026</b>	SeqNo: <b>6156999</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloropropene	ND	0.500									
1,2,4-Trimethylbenzene	ND	0.500									
Benzene	ND	0.500									
Ethylbenzene	ND	0.500									
m,p-Xylene	ND	0.500									
Naphthalene	ND	0.500									
o-Xylene	ND	0.500									
Toluene	ND	0.500									
Vinyl chloride	ND	0.500									

**Qualifiers:**

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area respor
ND	Not Detected	PL	Permit Limit	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	W	Sample container temperature is out of limit as specified at testcode	J	Analyte detected below quantitation limits

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# QC SUMMARY REPORT

WO#: 26041532

24-Apr-26

**Client:** Columbiana County Health District

**Project:** East Palestine

**BatchID:** R234722

Sample ID: <b>MB-R234722</b>	SampType: <b>MBLK</b>	TestCode: <b>VOC_DW(524)</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>234722</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>R234722</b>	TestNo: <b>E524.2</b>	Analysis Date: <b>4/20/2026</b>	SeqNo: <b>6156999</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 1,2-Dichlorobenzene-d4	10.0		10.00		100	70	130				
Surr: 4-Bromofluorobenzene	9.36		10.00		93.6	70	130				

Sample ID: <b>26041406-004CMS</b>	SampType: <b>MS</b>	TestCode: <b>VOC_DW(524)</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>234722</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>R234722</b>	TestNo: <b>E524.2</b>	Analysis Date: <b>4/20/2026</b>	SeqNo: <b>6157002</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1-Dichloropropene	6.55	0.500	5.000	0	131	70	130				S
1,2,4-Trimethylbenzene	5.49	0.500	5.000	0	110	70	130				
Benzene	6.42	0.500	5.000	0	128	70	130				
Ethylbenzene	5.64	0.500	5.000	0	113	70	130				
m,p-Xylene	11.3	0.500	10.00	0	113	70	130				
Naphthalene	5.25	0.500	5.000	0	105	70	130				
o-Xylene	5.33	0.500	5.000	0	107	70	130				
Toluene	5.31	0.500	5.000	0	106	70	130				
Vinyl chloride	3.98	0.500	5.000	0	79.5	70	130				
Surr: 1,2-Dichlorobenzene-d4	9.95		10.00		99.5	70	130				
Surr: 4-Bromofluorobenzene	9.10		10.00		91.0	70	130				

Sample ID: <b>26041406-004CMSD</b>	SampType: <b>MSD</b>	TestCode: <b>VOC_DW(524)</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>234722</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>R234722</b>	TestNo: <b>E524.2</b>	Analysis Date: <b>4/20/2026</b>	SeqNo: <b>6157003</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

<b>Qualifiers:</b>	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area respor
	ND	Not Detected	PL	Permit Limit	R	RPD outside accepted recovery limits
	RL	Reporting Detection Limit	W	Sample container temperature is out of limit as specified at testcode	J	Analyte detected below quantitation limits

Original



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# QC SUMMARY REPORT

WO#: 26041532  
 24-Apr-26

**Client:** Columbiana County Health District  
**Project:** East Palestine

**BatchID:** R234722

Sample ID: 26041406-004CMSD	SampType: MSD	TestCode: VOC_DW(524)	Units: µg/L	Prep Date:	RunNo: 234722						
Client ID: BatchQC	Batch ID: R234722	TestNo: E524.2	Analysis Date: 4/20/2026	SeqNo: 6157003							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloropropene	6.82	0.500	5.000	0	136	70	130	6.552	4.07	25	S
1,2,4-Trimethylbenzene	5.81	0.500	5.000	0	116	70	130	5.489	5.61	25	
Benzene	6.78	0.500	5.000	0	136	70	130	6.422	5.41	25	S
Ethylbenzene	5.78	0.500	5.000	0	116	70	130	5.640	2.37	25	
m,p-Xylene	11.2	0.500	10.00	0	112	70	130	11.27	0.463	25	
Naphthalene	5.24	0.500	5.000	0	105	70	130	5.249	0.248	25	
o-Xylene	5.72	0.500	5.000	0	114	70	130	5.326	7.10	25	
Toluene	5.39	0.500	5.000	0	108	70	130	5.307	1.55	25	
Vinyl chloride	4.29	0.500	5.000	0	85.8	70	130	3.977	7.55	25	
Surr: 1,2-Dichlorobenzene-d4	9.68		10.00		96.8	70	130		0	25	
Surr: 4-Bromofluorobenzene	8.69		10.00		86.9	70	130		0	25	

**Qualifiers:**

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area respon
ND	Not Detected	PL	Permit Limit	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	W	Sample container temperature is out of limit as specified at testcode	J	Analyte detected below quantitation limits

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# QC SUMMARY REPORT

WO#: 26041532  
 24-Apr-26

**Client:** Columbiana County Health District  
**Project:** East Palestine

**BatchID:** R234726

Sample ID: <b>LCS-R234726</b>	SampType: <b>LCS</b>	TestCode: <b>VOC-MSTR_</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>234726</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>R234726</b>	TestNo: <b>SW8260</b>	Analysis Date: <b>4/20/2026</b>	SeqNo: <b>6157219</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Ethylhexyl acrylate	20.3	5.00	20.00	0	101	70	190				
n-Butyl acrylate	18.5	5.00	20.00	0	92.5	60	133				
Surr: 4-Bromofluorobenzene	48.2		50.00		96.5	70	130				
Surr: Dibromofluoromethane	50.7		50.00		101	70	130				
Surr: Toluene-d8	50.0		50.00		100	70	130				

Sample ID: <b>MB-R234726</b>	SampType: <b>MBLK</b>	TestCode: <b>VOC-MSTR_</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>234726</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>R234726</b>	TestNo: <b>SW8260</b>	Analysis Date: <b>4/20/2026</b>	SeqNo: <b>6157222</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Ethylhexyl acrylate	ND	5.00									
n-Butyl acrylate	ND	5.00									
Surr: 4-Bromofluorobenzene	46.4		50.00		92.7	70	130				
Surr: Dibromofluoromethane	49.8		50.00		99.5	70	130				
Surr: Toluene-d8	50.2		50.00		100	70	130				

Sample ID: <b>26041415-001AMS</b>	SampType: <b>MS</b>	TestCode: <b>VOC-MSTR_</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>234726</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>R234726</b>	TestNo: <b>SW8260</b>	Analysis Date: <b>4/20/2026</b>	SeqNo: <b>6157225</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Ethylhexyl acrylate	2040	500	2000	0	102	70	190				
n-Butyl acrylate	1780	500	2000	0	89.1	18.8	188				
Surr: 4-Bromofluorobenzene	4920		5000		98.5	70	130				

**Qualifiers:**

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area respo
ND	Not Detected	PL	Permit Limit	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	W	Sample container temperature is out of limit as specified at testcode	J	Analyte detected below quantitation limits

Original



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# QC SUMMARY REPORT

WO#: 26041532  
 24-Apr-26

**Client:** Columbiana County Health District

**Project:** East Palestine

**BatchID:** R234726

Sample ID: <b>26041415-001AMS</b>	SampType: <b>MS</b>	TestCode: <b>VOC-MSTR_</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>234726</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>R234726</b>	TestNo: <b>SW8260</b>		Analysis Date: <b>4/20/2026</b>	SeqNo: <b>6157225</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: Dibromofluoromethane	5090		5000		102	70	130				
Surr: Toluene-d8	4980		5000		99.6	46.1	154				

Sample ID: <b>26041415-001AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>VOC-MSTR_</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>234726</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>R234726</b>	TestNo: <b>SW8260</b>		Analysis Date: <b>4/20/2026</b>	SeqNo: <b>6157226</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

2-Ethylhexyl acrylate	2260	500	2000	0	113	70	190	2043	10.0	20	
n-Butyl acrylate	1960	500	2000	0	97.8	18.8	188	1783	9.30	20	
Surr: 4-Bromofluorobenzene	4820		5000		96.5	70	130		0	20	
Surr: Dibromofluoromethane	5090		5000		102	70	130		0	20	
Surr: Toluene-d8	4960		5000		99.2	46.1	154		0	20	

<b>Qualifiers:</b>	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area respo
	ND	Not Detected	PL	Permit Limit	R	RPD outside accepted recovery limits
	RL	Reporting Detection Limit	W	Sample container temperature is out of limit as specified at testcode	J	Analyte detected below quantitation limits

Original

These commonly used Qualifiers and Acronyms may or may not be present in this report.

**Qualifiers**

- U** The compound was analyzed for but was not detected above the MDL.
- J** The reported value is greater than the Method Detection Limit but less than the Reporting Limit.
- H** The hold time for sample preparation and/or analysis was exceeded. Not Clean Water Act compliant.
- D** The result is reported from a dilution.
- E** The result exceeded the linear range of the calibration or is estimated due to interference.
- MC** The result is below the Minimum Compound Limit.
- \*** The result exceeds the Regulatory Limit or Maximum Contamination Limit.
- m** Manual integration was used to determine the area response.
- d** Manual integration in which peak was deleted
- N** The result is presumptive based on a Mass Spectral library search assuming a 1:1 response.
- P** The second column confirmation exceeded 25% difference.
- C** The result has been confirmed by GC/MS.
- X** The result was not confirmed when GC/MS Analysis was performed.
- B** The analyte was detected in the Method Blank at a concentration greater than the RL.
- MB+** The analyte was detected in the Method Blank at a concentration greater than the MDL.
- G** The ICB or CCB contained reportable amounts of analyte.
- QC-/+** The CCV recovery failed low (-) or high (+).
- R/QDR** The RPD was outside of accepted recovery limits.
- QL-/+** The LCS or LCSD recovery failed low (-) or high (+).
- QLR** The LCS/LCSD RPD was outside of accepted recovery limits.
- QM-/+** The MS or MSD recovery failed low (-) or high (+).
- QMR** The MS/MSD RPD was outside of accepted recovery limits.
- QV-/+** The ICV recovery failed low (-) or high (+).
- S** The spike result was outside of accepted recovery limits.
- W** Samples were received outside temperature limits (0° – 6° C). Not Clean Water Act compliant.
- Z** Deviation; A deviation from the method was performed; Please refer to the Case Narrative for additional information

**Acronyms**

- |             |                                     |               |                                      |
|-------------|-------------------------------------|---------------|--------------------------------------|
| <b>ND</b>   | Not Detected                        | <b>RL</b>     | Reporting Limit                      |
| <b>QC</b>   | Quality Control                     | <b>MDL</b>    | Method Detection Limit               |
| <b>MB</b>   | Method Blank                        | <b>LOD</b>    | Level of Detection                   |
| <b>LCS</b>  | Laboratory Control Sample           | <b>LOQ</b>    | Level of Quantitation                |
| <b>LCSD</b> | Laboratory Control Sample Duplicate | <b>PQL</b>    | Practical Quantitation Limit         |
| <b>QCS</b>  | Quality Control Sample              | <b>CRQL</b>   | Contract Required Quantitation Limit |
| <b>DUP</b>  | Duplicate                           | <b>PL</b>     | Permit Limit                         |
| <b>MS</b>   | Matrix Spike                        | <b>RegLvl</b> | Regulatory Limit                     |
| <b>MSD</b>  | Matrix Spike Duplicate              | <b>MCL</b>    | Maximum Contamination Limit          |
| <b>RPD</b>  | Relative Percent Different          | <b>MinCL</b>  | Minimum Compound Limit               |
| <b>ICV</b>  | Initial Calibration Verification    | <b>RA</b>     | Reanalysis                           |
| <b>ICB</b>  | Initial Calibration Blank           | <b>RE</b>     | Reextraction                         |
| <b>CCV</b>  | Continuing Calibration Verification | <b>TIC</b>    | Tentatively Identified Compound      |
| <b>CCB</b>  | Continuing Calibration Blank        | <b>RT</b>     | Retention Time                       |
| <b>RLC</b>  | Reporting Limit Check               | <b>CF</b>     | Calibration Factor                   |

**This list of Qualifiers and Acronyms reflects the most commonly utilized Qualifiers and Acronyms for reporting. Please refer to the Analytical Notes in the Case Narrative for any Qualifiers or Acronyms that do not appear in this list or for additional information regarding the use of these Qualifiers on reported data.**



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## DATES REPORT

WO#: 26041532  
24-Apr-26

**Client:** Columbiana County Health District

**Project:** East Palestine

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
26041532-001A	PW-470	4/17/2026 11:15:00 AM	Drinking Water	Synthetic Organic Compounds by GC/ (EPA 525.3)		4/21/2026 10:15:00 AM	4/23/2026 12:23:00 AM
26041532-001B				SVOC by 8270E		4/21/2026 9:45:00 AM	4/24/2026 6:38:00 AM
26041532-001C				VOC-GC/MS (524.2)			4/21/2026 2:42:00 AM
26041532-001D				VOC by GC/MS (8260D)			4/20/2026 4:09:00 PM
26041532-002A	FB-470	4/17/2026 10:50:00 AM		Synthetic Organic Compounds by GC/ (EPA 525.3)		4/21/2026 10:15:00 AM	4/23/2026 12:56:00 AM
26041532-002B				SVOC by 8270E		4/21/2026 9:45:00 AM	4/24/2026 7:11:00 AM
26041532-002C				VOC-GC/MS (524.2)			4/21/2026 3:10:00 AM
26041532-002D				VOC by GC/MS (8260D)			4/20/2026 4:36:00 PM
26041532-003A	Trip Blank			VOC-GC/MS (524.2)			4/20/2026 11:27:00 PM
26041532-003B				VOC by GC/MS (8260D)			4/20/2026 5:04:00 PM

Original



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Analysis Request / Chain of Custody

https://www.alliancetg.com/services/environmental https://setek.com/

LAB NO:	For Alliance Technical Group, LLC-Akron use only <b>26041532</b>
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Client Name CCHD		Project Identification [REDACTED]		Grab Sample	Composite Sample	Matrix: S = Solid, SL = Sludge, L = Liquid, O = Oil, A = Air, NPW = Non-Potable Water, DW = Drinking Water	Preservation: 1) HNO3; 2) H2SO4; 3) HCl; 4) Zinc Acetate; 5) NaOH; 6) EDA; 7) none; 8) other (specify in comments)	Number of Containers per Sample	Analytical Parameters and Methods Requested						For DW Only: Special Compliance or Routine (S/R)
Client Street Address 7360 SR 45 City: Lisbon OH Zip: 44432		Client Phone 330-424-0272							524	8270	525	8260			
Contact Person Kevin Summerville		Quote Number													
Client Email Address ksummerville@columbiana-health.org		PWS ID													
Sampled By (Print Name and Provide Signature) Print: <i>Emma Kelly</i> Sign: <i>Emma Kelly</i>		Reporting/Accreditation Requirements: <input type="checkbox"/> Ohio VAP <input type="checkbox"/> Ohio EPA Pb, Cu <input type="checkbox"/> Drinking Water Compliance <input type="checkbox"/> BUSTER													
For DW only, results to be reported to state by lab if yes, lab fee may apply: <input type="checkbox"/> Yes <input type="checkbox"/> No		Other Compliance (List State/ Program):													
#	Sample Vial ID	Sample Identification	Date Collected	Time Collected	Grab Sample	Composite Sample	Matrix	Preservation	Number of Containers per Sample	524	8270	525	8260		
	DW-470	Outside Spigot	4/20/26	11:15	✓		DW	8	10	X	X	X	X		
	FB-470	FB	4/17/26	10:50	X		DW	8	10	X	X	X	X		
Relinquished by:		Date	Time	Received by:	Date	Time	Notes / Comments: 524: HCl, 8260: HCl, 525: Sodium Sulfite								
<i>[Signature]</i>		4/20/26	8:55	<i>[Signature]</i>	4/20	8:55	1.1-0.1=1.0 C.S. INTACT 4/20/26								
		4/20	1:00				Sufficient volume for analysis?		YES NO		Cooler? YES NO N/A				
Received at ATG-Akron by:		Date	Time	Carrier	RUSH Requested: ___ Day(s) Please provide advanced notice of rush requests whenever possible.			Receipt Temperature:		Cooler Seals? INTACT NOT INTACT N/A		Sample Seals? INTACT NOT INTACT N/A		Ice Present? YES NO MELTED N/A	
<i>[Signature]</i>		4/20/26	13:00	ATG				1.0 °C		INTACT		INTACT		YES	




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## Sample Log-In Check List

Client Name: **COL-OH-44432**

Work Order Number: **26041532**

RcptNo: **1**

Logged by:	<b>Nick Rigby</b>	<b>4/20/2026 1:00:00 PM</b>	
Completed By:	<b>Nick Rigby</b>	<b>4/20/2026 3:25:33 PM</b>	
Reviewed By:	<b>Holly Florea</b>	<b>4/21/2026 10:55:01 AM</b>	

### Chain of Custody

1. Is Chain of Custody complete? Yes  No  Not Present   
 2. How was the sample delivered? Alliance

### Log In

3. Coolers are present? Yes  No  NA   
 4. Shipping container/cooler in good condition? Yes  No   
 Custody seals intact on shipping container/cooler? Yes  No  Not Present  NA   
 No. Seal Date: 4/20/2026 Signed By:  
 5. Was an attempt made to cool the samples? Yes  No  NA   
 6. Were all samples received at a temperature of >0° C to 6.0°C Yes  No  NA   
 7. Sample(s) in proper container(s)? Yes  No   
 8. Sufficient sample volume for indicated test(s)? Yes  No   
 9. Are samples (except VOA and ONG) properly preserved? Yes  No   
 10. Was preservative added to bottles? Yes  No  NA   
 11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes  No  No VOA Vials   
 12. Were any sample containers received broken? Yes  No   
 13. Does paperwork match bottle labels? Yes  No   
 (Note discrepancies on chain of custody)  
 14. Are matrices correctly identified on Chain of Custody? Yes  No   
 15. Is it clear what analyses were requested? Yes  No   
 16. Were all holding times able to be met? Yes  No   
 (If no, notify customer for authorization.)

### Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes  No  NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

18. Additional remarks:

Sample PW-470 1 VOC 524 vial half full.

### Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes		4/20/2026	