



Summit Environmental Technologies, Inc.  
3310 Win St.  
Cuyahoga Falls, Ohio 44223  
TEL: (330) 253-8211 FAX: (330) 253-4489  
Website: <http://www.settek.com>

May 09, 2024

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

Order No.: 24042254

Dear Kevin Summerville:

Summit Environmental Technologies, Inc. received 9 sample(s) on 4/30/2024 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,

Holly Florea  
Project Manager  
3310 Win St.  
Cuyahoga Falls, Ohio 44223

Arkansas 88-0735, California 2943, Colorado, Connecticut PH-0108, 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#: **24042254**  
**09-May-24**

**CLIENT:** Columbiana County Health District  
**Project:** EP

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
24042254-001	PW-311		4/29/2024 11:30:00 AM	4/30/2024 12:40:00 PM	Drinking Water
24042254-001	PW-311		4/29/2024 11:30:00 AM	4/30/2024 12:40:00 PM	Drinking Water
24042254-001	PW-311		4/29/2024 11:30:00 AM	4/30/2024 12:40:00 PM	Drinking Water
24042254-001	PW-311		4/29/2024 11:30:00 AM	4/30/2024 12:40:00 PM	Drinking Water
24042254-002	PW-740		4/29/2024 3:35:00 PM	4/30/2024 12:40:00 PM	Drinking Water
24042254-002	PW-740		4/29/2024 3:35:00 PM	4/30/2024 12:40:00 PM	Drinking Water
24042254-002	PW-740		4/29/2024 3:35:00 PM	4/30/2024 12:40:00 PM	Drinking Water
24042254-002	PW-740		4/29/2024 3:35:00 PM	4/30/2024 12:40:00 PM	Drinking Water
24042254-003	PW-347 FB		4/29/2024 1:45:00 PM	4/30/2024 12:40:00 PM	Drinking Water
24042254-003	PW-347 FB		4/29/2024 1:45:00 PM	4/30/2024 12:40:00 PM	Drinking Water
24042254-003	PW-347 FB		4/29/2024 1:45:00 PM	4/30/2024 12:40:00 PM	Drinking Water
24042254-003	PW-347 FB		4/29/2024 1:45:00 PM	4/30/2024 12:40:00 PM	Drinking Water
24042254-004	PW-347		4/29/2024 2:15:00 PM	4/30/2024 12:40:00 PM	Drinking Water
24042254-004	PW-347		4/29/2024 2:15:00 PM	4/30/2024 12:40:00 PM	Drinking Water
24042254-004	PW-347		4/29/2024 2:15:00 PM	4/30/2024 12:40:00 PM	Drinking Water
24042254-004	PW-347		4/29/2024 2:15:00 PM	4/30/2024 12:40:00 PM	Drinking Water
24042254-005	PW-18		4/29/2024 9:35:00 AM	4/30/2024 12:40:00 PM	Drinking Water
24042254-005	PW-18		4/29/2024 9:35:00 AM	4/30/2024 12:40:00 PM	Drinking Water
24042254-005	PW-18		4/29/2024 9:35:00 AM	4/30/2024 12:40:00 PM	Drinking Water
24042254-005	PW-18		4/29/2024 9:35:00 AM	4/30/2024 12:40:00 PM	Drinking Water
24042254-006	Dup		4/29/2024	4/30/2024 12:40:00 PM	Drinking Water
24042254-006	Dup		4/29/2024	4/30/2024 12:40:00 PM	Drinking Water
24042254-006	Dup		4/29/2024	4/30/2024 12:40:00 PM	Drinking Water



**SUMMIT**  
 ENVIRONMENTAL TECHNOLOGIES, INC  
 Analytical Laboratories

Summit Environmental Technologies, Inc.  
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**Workorder**  
**Sample Summary**  
 WO#: 24042254  
 09-May-24

**CLIENT:** Columbiana County Health District  
**Project:** EP

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
24042254-006	Dup		4/29/2024	4/30/2024 12:40:00 PM	Drinking Water
24042254-007	Trip Blank 1			4/30/2024 12:40:00 PM	Drinking Water
24042254-007	Trip Blank 1			4/30/2024 12:40:00 PM	Drinking Water
24042254-008	Trip Blank 2			4/30/2024 12:40:00 PM	Drinking Water
24042254-008	Trip Blank 2			4/30/2024 12:40:00 PM	Drinking Water
24042254-009	Trip Blank 3			4/30/2024 12:40:00 PM	Drinking Water
24042254-009	Trip Blank 3			4/30/2024 12:40:00 PM	Drinking Water



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## Case Narrative

WO#: 24042254  
Date: 5/9/2024

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**CLIENT:** Columbiana County Health District

**Project:** EP

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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 Summit Environmental Technologies, Inc., Work Order Number assigned to this report.

Summit Environmental Technologies, Inc., 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 Summit Environmental Technologies, Inc. and that of the customer. It cannot be reproduced in any form without the consent of Summit Environmental Technologies, Inc. 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. Summit Environmental Technologies, Inc. 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:

24042254: The lab does not routinely spike for 2-Butoxyethanol; this compound is included in the instrument initial calibration and initial calibration verification.

### Analytical Sequence Sample Notes:

24042254-001 through 009 VOC\_DW(524.2): MRL exhibited high recovery for Naphthalene, indicating possible high bias. Investigative sample is non-detect for this analyte.

24042254-001 through 006 SVOC\_DW(525.3): Possible low bias due to low surrogate recovery, sample analyzed twice to confirm. Possible low bias for several analytes due to low recoveries in LCS/LCSD-75043. LCS/LCSD and sample have been analyzed twice.

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Original



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# Analytical Report

(consolidated)

WO#: 24042254

Date Reported: 5/9/2024

**CLIENT:** Columbiana County Health District **Collection Date:** 4/29/2024 11:30:00 AM  
**Project:** EP  
**Lab ID:** 24042254-001 **Matrix:** DRINKING WATER  
**Client Sample ID:** PW-311

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>DRINKING WATER ORGANIC COMPOUNDS (EPA 525)</b>				<b>E525</b>	<b>525</b>	Analyst: JDB
<b>SYNTHETIC ORGANIC COMPOUNDS BY GC/MS (EPA 525.3)</b>						

Acenaphthylene	ND	0.0962	QL-QL-	µg/L	1	5/8/2024 7:41:00 PM
Anthracene	ND	0.0962	QL-QL-	µg/L	1	5/8/2024 7:41:00 PM
Benz(a)anthracene	ND	0.0962		µg/L	1	5/8/2024 7:41:00 PM
Benzo(a)pyrene	ND	0.0962	QL-	µg/L	1	5/8/2024 7:41:00 PM
Benzo(b)fluoranthene	ND	0.0962		µg/L	1	5/8/2024 7:41:00 PM
Benzo(g,h,i)perylene	ND	0.0962	QL-QL-	µg/L	1	5/8/2024 7:41:00 PM
Benzo(k)fluoranthene	ND	0.0962	QL-	µg/L	1	5/8/2024 7:41:00 PM
Chrysene	ND	0.0962		µg/L	1	5/8/2024 7:41:00 PM
Dibenz(a,h)anthracene	ND	0.0962	QL-	µg/L	1	5/8/2024 7:41:00 PM
Fluorene	ND	0.0962	QL-	µg/L	1	5/8/2024 7:41:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.962	QL-QL-	µg/L	1	5/8/2024 7:41:00 PM
Phenanthrene	ND	0.0962		µg/L	1	5/8/2024 7:41:00 PM
Pyrene	ND	0.0962		µg/L	1	5/8/2024 7:41:00 PM
Surr: 1,3-Dimethyl-2-nitrobenzene	37.6	70 - 130	S	%Rec	1	5/8/2024 7:41:00 PM
Surr: Benzo(a)pyrene-d12	76.4	70 - 130		%Rec	1	5/8/2024 7:41:00 PM
Surr: Triphenyl phosphate	84.6	70 - 130		%Rec	1	5/8/2024 7:41:00 PM

SVOC BY SW8270E	SW8270	SW3510C	Analyst: SAM
<b>SVOC BY 8270E</b>			

1-Methylnaphthalene	ND	0.990		µg/L	1	5/2/2024 7:36:00 PM
2-Butoxyethanol	ND	29.7		µg/L	1	5/2/2024 7:36:00 PM
2-Methylnaphthalene	ND	0.990		µg/L	1	5/2/2024 7:36:00 PM
Acenaphthene	ND	0.990		µg/L	1	5/2/2024 7:36:00 PM
Fluoranthene	ND	0.990		µg/L	1	5/2/2024 7:36:00 PM
Surr: Nitrobenzene-d5	66.1	10 - 130		%Rec	1	5/2/2024 7:36:00 PM
Surr: 2-Fluorobiphenyl	60.3	10 - 130		%Rec	1	5/2/2024 7:36:00 PM
Surr: p-Terphenyl-d14	87.5	20 - 181		%Rec	1	5/2/2024 7:36:00 PM

DRINKING WATER VOCS (EPA 524.2)	E524.2	Analyst: ALS
<b>VOC-GC/MS (524.2)</b>		

1,1-Dichloropropene	ND	0.500		µg/L	1	4/30/2024 5:35:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	4/30/2024 5:35:00 PM
Benzene	ND	0.500		µg/L	1	4/30/2024 5:35:00 PM
Ethylbenzene	ND	0.500		µg/L	1	4/30/2024 5:35:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	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		



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# Analytical Report

(consolidated)

WO#: **24042254**

Date Reported: **5/9/2024**

**CLIENT:** Columbiana County Health District

**Collection Date:** 4/29/2024 11:30:00 AM

**Project:** EP

**Lab ID:** 24042254-001

**Matrix:** DRINKING WATER

**Client Sample ID:** PW-311

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>DRINKING WATER VOCS (EPA 524.2)</b>				<b>E524.2</b>		Analyst: <b>ALS</b>
<b>VOC-GC/MS (524.2)</b>						
m,p-Xylene	ND	0.500		µg/L	1	4/30/2024 5:35:00 PM
Naphthalene	ND	0.500		µg/L	1	4/30/2024 5:35:00 PM
o-Xylene	ND	0.500		µg/L	1	4/30/2024 5:35:00 PM
Toluene	ND	0.500		µg/L	1	4/30/2024 5:35:00 PM
Vinyl chloride	ND	0.500		µg/L	1	4/30/2024 5:35:00 PM
Surr: 1,2-Dichlorobenzene-d4	85.8	70 - 130		%Rec	1	4/30/2024 5:35:00 PM
Surr: 4-Bromofluorobenzene	87.3	70 - 130		%Rec	1	4/30/2024 5:35:00 PM
<b>VOC ANALYSIS (8260D)</b>				<b>SW8260</b>		Analyst: <b>ZDA</b>
<b>VOC BY GC/MS (8260D)</b>						
2-Ethylhexyl acrylate	ND	5.00		µg/L	1	4/30/2024 4:21:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	4/30/2024 4:21:00 PM
Surr: 4-Bromofluorobenzene	94.0	70 - 130		%Rec	1	4/30/2024 4:21:00 PM
Surr: Dibromofluoromethane	93.2	70 - 130		%Rec	1	4/30/2024 4:21:00 PM
Surr: Toluene-d8	99.4	70 - 130		%Rec	1	4/30/2024 4:21:00 PM

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	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		



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# Analytical Report

(consolidated)

WO#: 24042254

Date Reported: 5/9/2024

**CLIENT:** Columbiana County Health District **Collection Date:** 4/29/2024 3:35:00 PM  
**Project:** EP  
**Lab ID:** 24042254-002 **Matrix:** DRINKING WATER  
**Client Sample ID:** PW-740

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>DRINKING WATER ORGANIC COMPOUNDS (EPA 525)</b>				<b>E525</b>	<b>525</b>	Analyst: JDB
<b>SYNTHETIC ORGANIC COMPOUNDS BY GC/MS (EPA 525.3)</b>						

Acenaphthylene	ND	0.0971	QL-QL-	µg/L	1	5/8/2024 8:14:00 PM
Anthracene	ND	0.0971	QL-QL-	µg/L	1	5/8/2024 8:14:00 PM
Benz(a)anthracene	ND	0.0971		µg/L	1	5/8/2024 8:14:00 PM
Benzo(a)pyrene	ND	0.0971	QL-	µg/L	1	5/8/2024 8:14:00 PM
Benzo(b)fluoranthene	ND	0.0971		µg/L	1	5/8/2024 8:14:00 PM
Benzo(g,h,i)perylene	ND	0.0971	QL-QL-	µg/L	1	5/8/2024 8:14:00 PM
Benzo(k)fluoranthene	ND	0.0971	QL-	µg/L	1	5/8/2024 8:14:00 PM
Chrysene	ND	0.0971		µg/L	1	5/8/2024 8:14:00 PM
Dibenz(a,h)anthracene	ND	0.0971	QL-	µg/L	1	5/8/2024 8:14:00 PM
Fluorene	ND	0.0971	QL-	µg/L	1	5/8/2024 8:14:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.971	QL-QL-	µg/L	1	5/8/2024 8:14:00 PM
Phenanthrene	ND	0.0971		µg/L	1	5/8/2024 8:14:00 PM
Pyrene	ND	0.0971		µg/L	1	5/8/2024 8:14:00 PM
Surr: 1,3-Dimethyl-2-nitrobenzene	35.8	70 - 130	S	%Rec	1	5/8/2024 8:14:00 PM
Surr: Benzo(a)pyrene-d12	73.8	70 - 130		%Rec	1	5/8/2024 8:14:00 PM
Surr: Triphenyl phosphate	71.8	70 - 130		%Rec	1	5/8/2024 8:14:00 PM

SVOC BY SW8270E	SW8270	SW3510C	Analyst: SAM
<b>SVOC BY 8270E</b>			

1-Methylnaphthalene	ND	0.971		µg/L	1	5/2/2024 8:09:00 PM
2-Butoxyethanol	ND	29.1		µg/L	1	5/2/2024 8:09:00 PM
2-Methylnaphthalene	ND	0.971		µg/L	1	5/2/2024 8:09:00 PM
Acenaphthene	ND	0.971		µg/L	1	5/2/2024 8:09:00 PM
Fluoranthene	ND	0.971		µg/L	1	5/2/2024 8:09:00 PM
Surr: Nitrobenzene-d5	76.2	10 - 130		%Rec	1	5/2/2024 8:09:00 PM
Surr: 2-Fluorobiphenyl	69.0	10 - 130		%Rec	1	5/2/2024 8:09:00 PM
Surr: p-Terphenyl-d14	96.9	20 - 181		%Rec	1	5/2/2024 8:09:00 PM

DRINKING WATER VOCS (EPA 524.2)	E524.2	Analyst: ALS
<b>VOC-GC/MS (524.2)</b>		

1,1-Dichloropropene	ND	0.500		µg/L	1	4/30/2024 6:38:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	4/30/2024 6:38:00 PM
Benzene	ND	0.500		µg/L	1	4/30/2024 6:38:00 PM
Ethylbenzene	ND	0.500		µg/L	1	4/30/2024 6:38:00 PM

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	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		



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# Analytical Report

(consolidated)

WO#: 24042254

Date Reported: 5/9/2024

**CLIENT:** Columbiana County Health District **Collection Date:** 4/29/2024 3:35:00 PM  
**Project:** EP  
**Lab ID:** 24042254-002 **Matrix:** DRINKING WATER  
**Client Sample ID:** PW-740

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>DRINKING WATER VOCS (EPA 524.2)</b>				<b>E524.2</b>	Analyst: ALS	
<b>VOC-GC/MS (524.2)</b>						
m,p-Xylene	ND	0.500		µg/L	1	4/30/2024 6:38:00 PM
Naphthalene	ND	0.500		µg/L	1	4/30/2024 6:38:00 PM
o-Xylene	ND	0.500		µg/L	1	4/30/2024 6:38:00 PM
Toluene	ND	0.500		µg/L	1	4/30/2024 6:38:00 PM
Vinyl chloride	ND	0.500		µg/L	1	4/30/2024 6:38:00 PM
Surr: 1,2-Dichlorobenzene-d4	90.8	70 - 130		%Rec	1	4/30/2024 6:38:00 PM
Surr: 4-Bromofluorobenzene	87.8	70 - 130		%Rec	1	4/30/2024 6:38:00 PM
<b>VOC ANALYSIS (8260D)</b>				<b>SW8260</b>	Analyst: ZDA	
<b>VOC BY GC/MS (8260D)</b>						
2-Ethylhexyl acrylate	ND	5.00		µg/L	1	4/30/2024 4:43:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	4/30/2024 4:43:00 PM
Surr: 4-Bromofluorobenzene	96.7	70 - 130		%Rec	1	4/30/2024 4:43:00 PM
Surr: Dibromofluoromethane	96.4	70 - 130		%Rec	1	4/30/2024 4:43:00 PM
Surr: Toluene-d8	102	70 - 130		%Rec	1	4/30/2024 4:43:00 PM

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	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		





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# Analytical Report

(consolidated)

WO#: 24042254

Date Reported: 5/9/2024

**CLIENT:** Columbiana County Health District **Collection Date:** 4/29/2024 1:45:00 PM  
**Project:** EP  
**Lab ID:** 24042254-003 **Matrix:** DRINKING WATER  
**Client Sample ID:** PW-347 FB

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>DRINKING WATER ORGANIC COMPOUNDS (EPA 525)</b>				<b>E525</b>	<b>525</b>	Analyst: <b>JDB</b>
<b>SYNTHETIC ORGANIC COMPOUNDS BY GC/MS (EPA 525.3)</b>						
Acenaphthylene	ND	0.0980	QL-QL-	µg/L	1	5/8/2024 8:47:00 PM
Anthracene	ND	0.0980	QL-QL-	µg/L	1	5/8/2024 8:47:00 PM
Benz(a)anthracene	ND	0.0980		µg/L	1	5/8/2024 8:47:00 PM
Benzo(a)pyrene	ND	0.0980	QL-	µg/L	1	5/8/2024 8:47:00 PM
Benzo(b)fluoranthene	ND	0.0980		µg/L	1	5/8/2024 8:47:00 PM
Benzo(g,h,i)perylene	ND	0.0980	QL-	µg/L	1	5/8/2024 8:47:00 PM
Benzo(k)fluoranthene	ND	0.0980	QL-	µg/L	1	5/8/2024 8:47:00 PM
Chrysene	ND	0.0980		µg/L	1	5/8/2024 8:47:00 PM
Dibenz(a,h)anthracene	ND	0.0980	QL-	µg/L	1	5/8/2024 8:47:00 PM
Fluorene	ND	0.0980	QL-	µg/L	1	5/8/2024 8:47:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.980	QL-QL-	µg/L	1	5/8/2024 8:47:00 PM
Phenanthrene	ND	0.0980		µg/L	1	5/8/2024 8:47:00 PM
Pyrene	ND	0.0980		µg/L	1	5/8/2024 8:47:00 PM
Surr: 1,3-Dimethyl-2-nitrobenzene	54.8	70 - 130	S	%Rec	1	5/8/2024 8:47:00 PM
Surr: Benzo(a)pyrene-d12	76.6	70 - 130		%Rec	1	5/8/2024 8:47:00 PM
Surr: Triphenyl phosphate	82.6	70 - 130		%Rec	1	5/8/2024 8:47:00 PM
<b>SVOC BY SW8270E</b>				<b>SW8270</b>	<b>SW3510C</b>	Analyst: <b>SAM</b>
<b>SVOC BY 8270E</b>						
1-Methylnaphthalene	ND	0.980		µg/L	1	5/2/2024 8:41:00 PM
2-Butoxyethanol	ND	29.4		µg/L	1	5/2/2024 8:41:00 PM
2-Methylnaphthalene	ND	0.980		µg/L	1	5/2/2024 8:41:00 PM
Acenaphthene	ND	0.980		µg/L	1	5/2/2024 8:41:00 PM
Fluoranthene	ND	0.980		µg/L	1	5/2/2024 8:41:00 PM
Surr: Nitrobenzene-d5	75.4	10 - 130		%Rec	1	5/2/2024 8:41:00 PM
Surr: 2-Fluorobiphenyl	69.4	10 - 130		%Rec	1	5/2/2024 8:41:00 PM
Surr: p-Terphenyl-d14	106	20 - 181		%Rec	1	5/2/2024 8:41:00 PM
<b>DRINKING WATER VOCS (EPA 524.2)</b>				<b>E524.2</b>		Analyst: <b>ALS</b>
<b>VOC-GC/MS (524.2)</b>						
1,1-Dichloropropene	ND	0.500		µg/L	1	4/30/2024 7:10:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	4/30/2024 7:10:00 PM
Benzene	ND	0.500		µg/L	1	4/30/2024 7:10:00 PM
Ethylbenzene	ND	0.500		µg/L	1	4/30/2024 7:10:00 PM

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	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		



Summit Environmental Technologies, Inc.  
 3310 Win St.  
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 Website: <http://www.settek.com>

# Analytical Report

(consolidated)

WO#: 24042254

Date Reported: 5/9/2024

**CLIENT:** Columbiana County Health District **Collection Date:** 4/29/2024 1:45:00 PM  
**Project:** EP  
**Lab ID:** 24042254-003 **Matrix:** DRINKING WATER  
**Client Sample ID:** PW-347 FB

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>DRINKING WATER VOCS (EPA 524.2)</b>				<b>E524.2</b>		Analyst: ALS
<b>VOC-GC/MS (524.2)</b>						
m,p-Xylene	ND	0.500		µg/L	1	4/30/2024 7:10:00 PM
Naphthalene	ND	0.500		µg/L	1	4/30/2024 7:10:00 PM
o-Xylene	ND	0.500		µg/L	1	4/30/2024 7:10:00 PM
Toluene	ND	0.500		µg/L	1	4/30/2024 7:10:00 PM
Vinyl chloride	ND	0.500		µg/L	1	4/30/2024 7:10:00 PM
Surr: 1,2-Dichlorobenzene-d4	90.5	70 - 130		%Rec	1	4/30/2024 7:10:00 PM
Surr: 4-Bromofluorobenzene	85.5	70 - 130		%Rec	1	4/30/2024 7:10:00 PM
<b>VOC ANALYSIS (8260D)</b>				<b>SW8260</b>		Analyst: ZDA
<b>VOC BY GC/MS (8260D)</b>						
2-Ethylhexyl acrylate	ND	5.00		µg/L	1	4/30/2024 5:06:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	4/30/2024 5:06:00 PM
Surr: 4-Bromofluorobenzene	95.6	70 - 130		%Rec	1	4/30/2024 5:06:00 PM
Surr: Dibromofluoromethane	94.6	70 - 130		%Rec	1	4/30/2024 5:06:00 PM
Surr: Toluene-d8	98.2	70 - 130		%Rec	1	4/30/2024 5:06:00 PM

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	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		



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# Analytical Report

(consolidated)

WO#: 24042254

Date Reported: 5/9/2024

**CLIENT:** Columbiana County Health District **Collection Date:** 4/29/2024 2:15:00 PM  
**Project:** EP  
**Lab ID:** 24042254-004 **Matrix:** DRINKING WATER  
**Client Sample ID:** PW-347

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>DRINKING WATER ORGANIC COMPOUNDS (EPA 525)</b>				<b>E525</b>	<b>525</b>	Analyst: <b>JDB</b>
<b>SYNTHETIC ORGANIC COMPOUNDS BY GC/MS (EPA 525.3)</b>						
Acenaphthylene	ND	0.0971	QL-QL-	µg/L	1	5/8/2024 9:21:00 PM
Anthracene	ND	0.0971	QL-QL-	µg/L	1	5/8/2024 9:21:00 PM
Benz(a)anthracene	ND	0.0971		µg/L	1	5/8/2024 9:21:00 PM
Benzo(a)pyrene	ND	0.0971	QL-	µg/L	1	5/8/2024 9:21:00 PM
Benzo(b)fluoranthene	ND	0.0971		µg/L	1	5/8/2024 9:21:00 PM
Benzo(g,h,i)perylene	ND	0.0971	QL-	µg/L	1	5/8/2024 9:21:00 PM
Benzo(k)fluoranthene	ND	0.0971	QL-	µg/L	1	5/8/2024 9:21:00 PM
Chrysene	ND	0.0971		µg/L	1	5/8/2024 9:21:00 PM
Dibenz(a,h)anthracene	ND	0.0971	QL-	µg/L	1	5/8/2024 9:21:00 PM
Fluorene	ND	0.0971	QL-	µg/L	1	5/8/2024 9:21:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.971	QL-QL-	µg/L	1	5/8/2024 9:21:00 PM
Phenanthrene	ND	0.0971		µg/L	1	5/8/2024 9:21:00 PM
Pyrene	ND	0.0971		µg/L	1	5/8/2024 9:21:00 PM
Surr: 1,3-Dimethyl-2-nitrobenzene	40.4	70 - 130	S	%Rec	1	5/8/2024 9:21:00 PM
Surr: Benzo(a)pyrene-d12	82.2	70 - 130		%Rec	1	5/8/2024 9:21:00 PM
Surr: Triphenyl phosphate	80.0	70 - 130		%Rec	1	5/8/2024 9:21:00 PM
<b>SVOC BY SW8270E</b>				<b>SW8270</b>	<b>SW3510C</b>	Analyst: <b>SAM</b>
<b>SVOC BY 8270E</b>						
1-Methylnaphthalene	ND	0.971		µg/L	1	5/2/2024 9:13:00 PM
2-Butoxyethanol	ND	29.1		µg/L	1	5/2/2024 9:13:00 PM
2-Methylnaphthalene	ND	0.971		µg/L	1	5/2/2024 9:13:00 PM
Acenaphthene	ND	0.971		µg/L	1	5/2/2024 9:13:00 PM
Fluoranthene	ND	0.971		µg/L	1	5/2/2024 9:13:00 PM
Surr: Nitrobenzene-d5	64.9	10 - 130		%Rec	1	5/2/2024 9:13:00 PM
Surr: 2-Fluorobiphenyl	60.6	10 - 130		%Rec	1	5/2/2024 9:13:00 PM
Surr: p-Terphenyl-d14	88.7	20 - 181		%Rec	1	5/2/2024 9:13:00 PM
<b>DRINKING WATER VOCs (EPA 524.2)</b>				<b>E524.2</b>		Analyst: <b>ALS</b>
<b>VOC-GC/MS (524.2)</b>						
1,1-Dichloropropene	ND	0.500		µg/L	1	4/30/2024 7:41:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	4/30/2024 7:41:00 PM
Benzene	ND	0.500		µg/L	1	4/30/2024 7:41:00 PM
Ethylbenzene	ND	0.500		µg/L	1	4/30/2024 7:41:00 PM

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	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		



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# Analytical Report

(consolidated)

WO#: 24042254

Date Reported: 5/9/2024

**CLIENT:** Columbiana County Health District **Collection Date:** 4/29/2024 2:15:00 PM  
**Project:** EP  
**Lab ID:** 24042254-004 **Matrix:** DRINKING WATER  
**Client Sample ID:** PW-347

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>DRINKING WATER VOCS (EPA 524.2)</b>				<b>E524.2</b>	Analyst: ALS	
<b>VOC-GC/MS (524.2)</b>						
m,p-Xylene	ND	0.500		µg/L	1	4/30/2024 7:41:00 PM
Naphthalene	ND	0.500		µg/L	1	4/30/2024 7:41:00 PM
o-Xylene	ND	0.500		µg/L	1	4/30/2024 7:41:00 PM
Toluene	ND	0.500		µg/L	1	4/30/2024 7:41:00 PM
Vinyl chloride	ND	0.500		µg/L	1	4/30/2024 7:41:00 PM
Surr: 1,2-Dichlorobenzene-d4	84.9	70 - 130		%Rec	1	4/30/2024 7:41:00 PM
Surr: 4-Bromofluorobenzene	87.3	70 - 130		%Rec	1	4/30/2024 7:41:00 PM
<b>VOC ANALYSIS (8260D)</b>				<b>SW8260</b>	Analyst: ZDA	
<b>VOC BY GC/MS (8260D)</b>						
2-Ethylhexyl acrylate	ND	5.00		µg/L	1	4/30/2024 5:29:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	4/30/2024 5:29:00 PM
Surr: 4-Bromofluorobenzene	99.0	70 - 130		%Rec	1	4/30/2024 5:29:00 PM
Surr: Dibromofluoromethane	92.9	70 - 130		%Rec	1	4/30/2024 5:29:00 PM
Surr: Toluene-d8	99.1	70 - 130		%Rec	1	4/30/2024 5:29:00 PM

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	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		



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# Analytical Report

(consolidated)

WO#: 24042254

Date Reported: 5/9/2024

**CLIENT:** Columbiana County Health District **Collection Date:** 4/29/2024 9:35:00 AM  
**Project:** EP  
**Lab ID:** 24042254-005 **Matrix:** DRINKING WATER  
**Client Sample ID:** PW-18

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>DRINKING WATER ORGANIC COMPOUNDS (EPA 525)</b>				<b>E525</b>	<b>525</b>	Analyst: <b>JDB</b>
<b>SYNTHETIC ORGANIC COMPOUNDS BY GC/MS (EPA 525.3)</b>						

Acenaphthylene	ND	0.0971	QL-QL-	µg/L	1	5/8/2024 9:54:00 PM
Anthracene	ND	0.0971	QL-QL-	µg/L	1	5/8/2024 9:54:00 PM
Benz(a)anthracene	ND	0.0971		µg/L	1	5/8/2024 9:54:00 PM
Benzo(a)pyrene	ND	0.0971	QL-	µg/L	1	5/8/2024 9:54:00 PM
Benzo(b)fluoranthene	ND	0.0971		µg/L	1	5/8/2024 9:54:00 PM
Benzo(g,h,i)perylene	ND	0.0971	QL-QL-	µg/L	1	5/8/2024 9:54:00 PM
Benzo(k)fluoranthene	ND	0.0971	QL-	µg/L	1	5/8/2024 9:54:00 PM
Chrysene	ND	0.0971		µg/L	1	5/8/2024 9:54:00 PM
Dibenz(a,h)anthracene	ND	0.0971	QL-	µg/L	1	5/8/2024 9:54:00 PM
Fluorene	ND	0.0971	QL-	µg/L	1	5/8/2024 9:54:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.971	QL-QL-	µg/L	1	5/8/2024 9:54:00 PM
Phenanthrene	ND	0.0971		µg/L	1	5/8/2024 9:54:00 PM
Pyrene	ND	0.0971		µg/L	1	5/8/2024 9:54:00 PM
Surr: 1,3-Dimethyl-2-nitrobenzene	41.6	70 - 130	S	%Rec	1	5/8/2024 9:54:00 PM
Surr: Benzo(a)pyrene-d12	85.6	70 - 130		%Rec	1	5/8/2024 9:54:00 PM
Surr: Triphenyl phosphate	84.8	70 - 130		%Rec	1	5/8/2024 9:54:00 PM

<b>SVOC BY SW8270E</b>				<b>SW8270</b>	<b>SW3510C</b>	Analyst: <b>SAM</b>
<b>SVOC BY 8270E</b>						

1-Methylnaphthalene	ND	0.971		µg/L	1	5/2/2024 9:44:00 PM
2-Butoxyethanol	ND	29.1		µg/L	1	5/2/2024 9:44:00 PM
2-Methylnaphthalene	ND	0.971		µg/L	1	5/2/2024 9:44:00 PM
Acenaphthene	ND	0.971		µg/L	1	5/2/2024 9:44:00 PM
Fluoranthene	ND	0.971		µg/L	1	5/2/2024 9:44:00 PM
Surr: Nitrobenzene-d5	84.5	10 - 130		%Rec	1	5/2/2024 9:44:00 PM
Surr: 2-Fluorobiphenyl	79.4	10 - 130		%Rec	1	5/2/2024 9:44:00 PM
Surr: p-Terphenyl-d14	114	20 - 181		%Rec	1	5/2/2024 9:44:00 PM

<b>DRINKING WATER VOCs (EPA 524.2)</b>				<b>E524.2</b>	Analyst: <b>ALS</b>
<b>VOC-GC/MS (524.2)</b>					

1,1-Dichloropropene	ND	0.500		µg/L	1	4/30/2024 8:13:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	4/30/2024 8:13:00 PM
Benzene	ND	0.500		µg/L	1	4/30/2024 8:13:00 PM
Ethylbenzene	ND	0.500		µg/L	1	4/30/2024 8:13:00 PM

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	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		



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# Analytical Report

(consolidated)

WO#: 24042254

Date Reported: 5/9/2024

**CLIENT:** Columbiana County Health District **Collection Date:** 4/29/2024 9:35:00 AM  
**Project:** EP  
**Lab ID:** 24042254-005 **Matrix:** DRINKING WATER  
**Client Sample ID:** PW-18

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**DRINKING WATER VOCS (EPA 524.2)**  
**VOC-GC/MS (524.2)**

**E524.2**

Analyst: ALS

m,p-Xylene	ND	0.500		µg/L	1	4/30/2024 8:13:00 PM
Naphthalene	ND	0.500		µg/L	1	4/30/2024 8:13:00 PM
o-Xylene	ND	0.500		µg/L	1	4/30/2024 8:13:00 PM
Toluene	ND	0.500		µg/L	1	4/30/2024 8:13:00 PM
Vinyl chloride	ND	0.500		µg/L	1	4/30/2024 8:13:00 PM
Surr: 1,2-Dichlorobenzene-d4	86.6	70 - 130		%Rec	1	4/30/2024 8:13:00 PM
Surr: 4-Bromofluorobenzene	87.3	70 - 130		%Rec	1	4/30/2024 8:13:00 PM

**VOC ANALYSIS (8260D)**  
**VOC BY GC/MS (8260D)**

**SW8260**

Analyst: ZDA

2-Ethylhexyl acrylate	ND	5.00		µg/L	1	4/30/2024 5:52:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	4/30/2024 5:52:00 PM
Surr: 4-Bromofluorobenzene	94.3	70 - 130		%Rec	1	4/30/2024 5:52:00 PM
Surr: Dibromofluoromethane	97.9	70 - 130		%Rec	1	4/30/2024 5:52:00 PM
Surr: Toluene-d8	99.6	70 - 130		%Rec	1	4/30/2024 5:52:00 PM

Qualifiers:			
B	Analyte detected in the associated Method Blank	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		



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# Analytical Report

(consolidated)

WO#: 24042254

Date Reported: 5/9/2024

**CLIENT:** Columbiana County Health District

**Collection Date:** 4/29/2024

**Project:** EP

**Lab ID:** 24042254-006

**Matrix:** DRINKING WATER

**Client Sample ID:** Dup

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>DRINKING WATER ORGANIC COMPOUNDS (EPA 525)</b>				<b>E525</b>	<b>525</b>	Analyst: <b>JDB</b>
<b>SYNTHETIC ORGANIC COMPOUNDS BY GC/MS (EPA 525.3)</b>						
Acenaphthylene	ND	0.0962	QL-QL-	µg/L	1	5/8/2024 10:27:00 PM
Anthracene	ND	0.0962	QL-QL-	µg/L	1	5/8/2024 10:27:00 PM
Benz(a)anthracene	ND	0.0962		µg/L	1	5/8/2024 10:27:00 PM
Benzo(a)pyrene	ND	0.0962	QL-	µg/L	1	5/8/2024 10:27:00 PM
Benzo(b)fluoranthene	ND	0.0962		µg/L	1	5/8/2024 10:27:00 PM
Benzo(g,h,i)perylene	ND	0.0962	QL-QL-	µg/L	1	5/8/2024 10:27:00 PM
Benzo(k)fluoranthene	ND	0.0962	QL-	µg/L	1	5/8/2024 10:27:00 PM
Chrysene	ND	0.0962		µg/L	1	5/8/2024 10:27:00 PM
Dibenz(a,h)anthracene	ND	0.0962	QL-	µg/L	1	5/8/2024 10:27:00 PM
Fluorene	ND	0.0962	QL-	µg/L	1	5/8/2024 10:27:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.962	QL-QL-	µg/L	1	5/8/2024 10:27:00 PM
Phenanthrene	ND	0.0962		µg/L	1	5/8/2024 10:27:00 PM
Pyrene	ND	0.0962		µg/L	1	5/8/2024 10:27:00 PM
Surr: 1,3-Dimethyl-2-nitrobenzene	30.8	70 - 130	S	%Rec	1	5/8/2024 10:27:00 PM
Surr: Benzo(a)pyrene-d12	76.0	70 - 130		%Rec	1	5/8/2024 10:27:00 PM
Surr: Triphenyl phosphate	71.8	70 - 130		%Rec	1	5/8/2024 10:27:00 PM
<b>SVOC BY SW8270E</b>				<b>SW8270</b>	<b>SW3510C</b>	Analyst: <b>SAM</b>
<b>SVOC BY 8270E</b>						
1-Methylnaphthalene	ND	0.980		µg/L	1	5/2/2024 10:16:00 PM
2-Butoxyethanol	ND	29.4		µg/L	1	5/2/2024 10:16:00 PM
2-Methylnaphthalene	ND	0.980		µg/L	1	5/2/2024 10:16:00 PM
Acenaphthene	ND	0.980		µg/L	1	5/2/2024 10:16:00 PM
Fluoranthene	ND	0.980		µg/L	1	5/2/2024 10:16:00 PM
Surr: Nitrobenzene-d5	85.4	10 - 130		%Rec	1	5/2/2024 10:16:00 PM
Surr: 2-Fluorobiphenyl	84.0	10 - 130		%Rec	1	5/2/2024 10:16:00 PM
Surr: p-Terphenyl-d14	111	20 - 181		%Rec	1	5/2/2024 10:16:00 PM
<b>DRINKING WATER VOCs (EPA 524.2)</b>				<b>E524.2</b>		Analyst: <b>ALS</b>
<b>VOC-GC/MS (524.2)</b>						
1,1-Dichloropropene	ND	0.500		µg/L	1	4/30/2024 8:44:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	4/30/2024 8:44:00 PM
Benzene	ND	0.500		µg/L	1	4/30/2024 8:44:00 PM
Ethylbenzene	ND	0.500		µg/L	1	4/30/2024 8:44:00 PM

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	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		





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# Analytical Report

(consolidated)

WO#: 24042254

Date Reported: 5/9/2024

**CLIENT:** Columbiana County Health District

**Collection Date:** 4/29/2024

**Project:** EP

**Lab ID:** 24042254-006

**Matrix:** DRINKING WATER

**Client Sample ID:** Dup

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>DRINKING WATER VOCS (EPA 524.2)</b>				<b>E524.2</b>		Analyst: ALS
<b>VOC-GC/MS (524.2)</b>						
m,p-Xylene	ND	0.500		µg/L	1	4/30/2024 8:44:00 PM
Naphthalene	ND	0.500		µg/L	1	4/30/2024 8:44:00 PM
o-Xylene	ND	0.500		µg/L	1	4/30/2024 8:44:00 PM
Toluene	ND	0.500		µg/L	1	4/30/2024 8:44:00 PM
Vinyl chloride	ND	0.500		µg/L	1	4/30/2024 8:44:00 PM
Surr: 1,2-Dichlorobenzene-d4	90.7	70 - 130		%Rec	1	4/30/2024 8:44:00 PM
Surr: 4-Bromofluorobenzene	87.6	70 - 130		%Rec	1	4/30/2024 8:44:00 PM
<b>VOC ANALYSIS (8260D)</b>				<b>SW8260</b>		Analyst: ZDA
<b>VOC BY GC/MS (8260D)</b>						
2-Ethylhexyl acrylate	ND	5.00		µg/L	1	4/30/2024 6:14:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	4/30/2024 6:14:00 PM
Surr: 4-Bromofluorobenzene	93.0	70 - 130		%Rec	1	4/30/2024 6:14:00 PM
Surr: Dibromofluoromethane	97.4	70 - 130		%Rec	1	4/30/2024 6:14:00 PM
Surr: Toluene-d8	98.4	70 - 130		%Rec	1	4/30/2024 6:14:00 PM

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	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		





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

# Analytical Report

(consolidated)

WO#: 24042254

Date Reported: 5/9/2024

**CLIENT:** Columbiana County Health District

**Collection Date:**

**Project:** EP

**Lab ID:** 24042254-007

**Matrix:** DRINKING WATER

**Client Sample ID:** Trip Blank 1

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>DRINKING WATER VOCS (EPA 524.2)</b>				<b>E524.2</b>	Analyst: ALS	
<b>VOC-GC/MS (524.2)</b>						
1,1-Dichloropropene	ND	0.500		µg/L	1	4/30/2024 4:00:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	4/30/2024 4:00:00 PM
Benzene	ND	0.500		µg/L	1	4/30/2024 4:00:00 PM
Ethylbenzene	ND	0.500		µg/L	1	4/30/2024 4:00:00 PM
m,p-Xylene	ND	0.500		µg/L	1	4/30/2024 4:00:00 PM
Naphthalene	ND	0.500		µg/L	1	4/30/2024 4:00:00 PM
o-Xylene	ND	0.500		µg/L	1	4/30/2024 4:00:00 PM
Toluene	ND	0.500		µg/L	1	4/30/2024 4:00:00 PM
Vinyl chloride	ND	0.500		µg/L	1	4/30/2024 4:00:00 PM
Surr: 1,2-Dichlorobenzene-d4	89.0	70 - 130		%Rec	1	4/30/2024 4:00:00 PM
Surr: 4-Bromofluorobenzene	89.4	70 - 130		%Rec	1	4/30/2024 4:00:00 PM
<b>VOC ANALYSIS (8260D)</b>				<b>SW8260</b>	Analyst: ZDA	
<b>VOC BY GC/MS (8260D)</b>						
2-Ethylhexyl acrylate	ND	5.00		µg/L	1	4/30/2024 6:37:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	4/30/2024 6:37:00 PM
Surr: 4-Bromofluorobenzene	101	70 - 130		%Rec	1	4/30/2024 6:37:00 PM
Surr: Dibromofluoromethane	92.7	70 - 130		%Rec	1	4/30/2024 6:37:00 PM
Surr: Toluene-d8	97.2	70 - 130		%Rec	1	4/30/2024 6:37:00 PM

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	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		



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# Analytical Report

(consolidated)

WO#: 24042254

Date Reported: 5/9/2024

**CLIENT:** Columbiana County Health District

**Collection Date:**

**Project:** EP

**Lab ID:** 24042254-008

**Matrix:** DRINKING WATER

**Client Sample ID:** Trip Blank 2

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**DRINKING WATER VOCS (EPA 524.2)**  
**VOC-GC/MS (524.2)**

**E524.2**

Analyst: ALS

1,1-Dichloropropene	ND	0.500		µg/L	1	4/30/2024 4:32:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	4/30/2024 4:32:00 PM
Benzene	ND	0.500		µg/L	1	4/30/2024 4:32:00 PM
Ethylbenzene	ND	0.500		µg/L	1	4/30/2024 4:32:00 PM
m,p-Xylene	ND	0.500		µg/L	1	4/30/2024 4:32:00 PM
Naphthalene	ND	0.500		µg/L	1	4/30/2024 4:32:00 PM
o-Xylene	ND	0.500		µg/L	1	4/30/2024 4:32:00 PM
Toluene	ND	0.500		µg/L	1	4/30/2024 4:32:00 PM
Vinyl chloride	ND	0.500		µg/L	1	4/30/2024 4:32:00 PM
Surr: 1,2-Dichlorobenzene-d4	90.2	70 - 130		%Rec	1	4/30/2024 4:32:00 PM
Surr: 4-Bromofluorobenzene	87.5	70 - 130		%Rec	1	4/30/2024 4:32:00 PM

**VOC ANALYSIS (8260D)**  
**VOC BY GC/MS (8260D)**

**SW8260**

Analyst: ZDA

2-Ethylhexyl acrylate	ND	5.00		µg/L	1	4/30/2024 7:00:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	4/30/2024 7:00:00 PM
Surr: 4-Bromofluorobenzene	96.4	70 - 130		%Rec	1	4/30/2024 7:00:00 PM
Surr: Dibromofluoromethane	99.1	70 - 130		%Rec	1	4/30/2024 7:00:00 PM
Surr: Toluene-d8	98.1	70 - 130		%Rec	1	4/30/2024 7:00:00 PM

Qualifiers:			
B	Analyte detected in the associated Method Blank	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		



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# Analytical Report

(consolidated)

WO#: 24042254

Date Reported: 5/9/2024

**CLIENT:** Columbiana County Health District

**Collection Date:**

**Project:** EP

**Lab ID:** 24042254-009

**Matrix:** DRINKING WATER

**Client Sample ID:** Trip Blank 3

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**DRINKING WATER VOCS (EPA 524.2)**  
**VOC-GC/MS (524.2)**

**E524.2**

Analyst: ALS

1,1-Dichloropropene	ND	0.500		µg/L	1	4/30/2024 5:03:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	4/30/2024 5:03:00 PM
Benzene	ND	0.500		µg/L	1	4/30/2024 5:03:00 PM
Ethylbenzene	ND	0.500		µg/L	1	4/30/2024 5:03:00 PM
m,p-Xylene	ND	0.500		µg/L	1	4/30/2024 5:03:00 PM
Naphthalene	ND	0.500		µg/L	1	4/30/2024 5:03:00 PM
o-Xylene	ND	0.500		µg/L	1	4/30/2024 5:03:00 PM
Toluene	ND	0.500		µg/L	1	4/30/2024 5:03:00 PM
Vinyl chloride	ND	0.500		µg/L	1	4/30/2024 5:03:00 PM
Surr: 1,2-Dichlorobenzene-d4	93.2	70 - 130		%Rec	1	4/30/2024 5:03:00 PM
Surr: 4-Bromofluorobenzene	88.7	70 - 130		%Rec	1	4/30/2024 5:03:00 PM

**VOC ANALYSIS (8260D)**  
**VOC BY GC/MS (8260D)**

**SW8260**

Analyst: ZDA

2-Ethylhexyl acrylate	ND	5.00		µg/L	1	4/30/2024 7:23:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	4/30/2024 7:23:00 PM
Surr: 4-Bromofluorobenzene	92.6	70 - 130		%Rec	1	4/30/2024 7:23:00 PM
Surr: Dibromofluoromethane	95.7	70 - 130		%Rec	1	4/30/2024 7:23:00 PM
Surr: Toluene-d8	99.1	70 - 130		%Rec	1	4/30/2024 7:23:00 PM

**Qualifiers:**

B	Analyte detected in the associated Method Blank	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		



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# QC SUMMARY REPORT

WO#: 24042254

09-May-24

**Client:** Columbiana County Health District

**Project:** EP

**BatchID:** 74993

Sample ID: <b>LCS-74993</b>	SampType: <b>LCS</b>	TestCode: <b>SVOC-MSTR</b>	Units: <b>µg/L</b>	Prep Date: <b>4/30/2024</b>	RunNo: <b>184865</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>74993</b>	TestNo: <b>SW8270</b>	<b>SW3510C</b>	Analysis Date: <b>5/2/2024</b>	SeqNo: <b>5009993</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	70	130				
1-Methylnaphthalene	37.5	5.00	40.0	0	93.8	33	130				
2-Methylnaphthalene	47.7	5.00	40.0	0	119	32	130				
Acenaphthene	43.2	5.00	40.0	0	108	44	130				
Fluoranthene	51.7	5.00	40.0	0	129	63	130				
Surr: 2-Fluorophenol	0.0224		0.05000		44.8	10	130				
Surr: Phenol-d6	0.0162		0.05000		32.4	10	130				
Surr: Nitrobenzene-d5	0.0449		0.05000		89.8	10	130				
Surr: 2,4,6-Tribromophenol	0.0480		0.05000		96.1	19	151				
Surr: 2-Fluorobiphenyl	0.0488		0.05000		97.5	10	130				
Surr: p-Terphenyl-d14	0.0485		0.05000		96.9	20	181				

Sample ID: <b>LCSD-74993</b>	SampType: <b>LCSD</b>	TestCode: <b>SVOC-MSTR</b>	Units: <b>µg/L</b>	Prep Date: <b>4/30/2024</b>	RunNo: <b>184865</b>						
Client ID: <b>LCSS02</b>	Batch ID: <b>74993</b>	TestNo: <b>SW8270</b>	<b>SW3510C</b>	Analysis Date: <b>5/2/2024</b>	SeqNo: <b>5009994</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	70	130	0	0	30	
1-Methylnaphthalene	35.2	5.00	40.0	0	87.9	33	130	37.5	6.44	30	
2-Methylnaphthalene	44.3	5.00	40.0	0	111	32	130	47.7	7.41	30	
Acenaphthene	40.7	5.00	40.0	0	102	44	130	43.2	6.10	30	
Fluoranthene	46.7	5.00	40.0	0	117	63	130	51.7	10.2	30	
Surr: 2-Fluorophenol	0.0207		0.05000		41.5	10	130		0		
Surr: Phenol-d6	0.0151		0.05000		30.2	10	130		0		
Surr: Nitrobenzene-d5	0.0428		0.05000		85.6	10	130		0		
Surr: 2,4,6-Tribromophenol	0.0445		0.05000		88.9	19	151		0		

**Qualifiers:**  
 B Analyte detected in the associated Method Blank  
 M Manual Integration used to determine area response  
 R RPD outside accepted recovery limits  
 W Sample container temperature is out of limit as specified at testcode

E Value above quantitation range  
 ND Not Detected  
 RL Reporting Detection Limit

H Holding times for preparation or analysis exceeds  
 PL Permit Limit  
 S Spike Recovery outside accepted recovery limits



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# QC SUMMARY REPORT

WO#: 24042254  
 09-May-24

**Client:** Columbiana County Health District  
**Project:** EP

**BatchID:** 74993

Sample ID: <b>LCSD-74993</b>	SampType: <b>LCSD</b>	TestCode: <b>SVOC-MSTR</b>	Units: <b>µg/L</b>	Prep Date: <b>4/30/2024</b>	RunNo: <b>184865</b>						
Client ID: <b>LCSS02</b>	Batch ID: <b>74993</b>	TestNo: <b>SW8270</b>	<b>SW3510C</b>	Analysis Date: <b>5/2/2024</b>	SeqNo: <b>5009994</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 2-Fluorobiphenyl	0.0441		0.05000		88.2	10	130		0		
Surr: p-Terphenyl-d14	0.0464		0.05000		92.8	20	181		0		

Sample ID: <b>MB-74993</b>	SampType: <b>MBLK</b>	TestCode: <b>SVOC-MSTR</b>	Units: <b>µg/L</b>	Prep Date: <b>4/30/2024</b>	RunNo: <b>184865</b>						
Client ID: <b>PBW</b>	Batch ID: <b>74993</b>	TestNo: <b>SW8270</b>	<b>SW3510C</b>	Analysis Date: <b>5/2/2024</b>	SeqNo: <b>5010007</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						
1-Methylnaphthalene	ND	5.00		0	0						
2-Methylnaphthalene	ND	5.00		0	0						
Acenaphthene	ND	5.00		0	0						
Fluoranthene	ND	5.00		0	0						
Surr: 2-Fluorophenol	0.0179		0.05000		35.9	10	130				
Surr: Phenol-d6	0.0114		0.05000		22.7	10	130				
Surr: Nitrobenzene-d5	0.0361		0.05000		72.2	10	130				
Surr: 2,4,6-Tribromophenol	0.0376		0.05000		75.2	19	151				
Surr: 2-Fluorobiphenyl	0.0381		0.05000		76.1	10	130				
Surr: p-Terphenyl-d14	0.0453		0.05000		90.7	20	181				

**Qualifiers:**  
 B Analyte detected in the associated Method Blank  
 M Manual Integration used to determine area response  
 R RPD outside accepted recovery limits  
 W Sample container temperature is out of limit as specified at testcode

E Value above quantitation range  
 ND Not Detected  
 RL Reporting Detection Limit

H Holding times for preparation or analysis exceeds  
 PL Permit Limit  
 S Spike Recovery outside accepted recovery limits



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# QC SUMMARY REPORT

WO#: 24042254  
 09-May-24

**Client:** Columbiana County Health District  
**Project:** EP

**BatchID:** 75043

Sample ID: <b>MB-75043</b>	SampType: <b>MBLK</b>	TestCode: <b>SVOC_DW(52</b>	Units: <b>µg/L</b>	Prep Date: <b>5/2/2024</b>	RunNo: <b>185155</b>						
Client ID: <b>PBW</b>	Batch ID: <b>75043</b>	TestNo: <b>E525</b>	<b>525</b>	Analysis Date: <b>5/7/2024</b>	SeqNo: <b>5017901</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
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									
Fluorene	ND	0.100									
Indeno(1,2,3-cd)pyrene	ND	1.00									
Phenanthrene	ND	0.100									
Pyrene	ND	0.100									
Surr: 1,3-Dimethyl-2-nitrobenzene	2.40		5.000		48.0	70	130				S
Surr: Benzo(a)pyrene-d12	3.74		5.000		74.8	70	130				
Surr: Triphenyl phosphate	3.73		5.000		74.6	70	130				

Sample ID: <b>LCS-75043</b>	SampType: <b>LCS</b>	TestCode: <b>SVOC_DW(52</b>	Units: <b>µg/L</b>	Prep Date: <b>5/2/2024</b>	RunNo: <b>185155</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>75043</b>	TestNo: <b>E525</b>	<b>525</b>	Analysis Date: <b>5/7/2024</b>	SeqNo: <b>5017903</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthylene	3.31	0.100	5.000	0	66.2	70	130				S
Anthracene	3.44	0.100	5.000	0	68.8	70	130				S
Benz(a)anthracene	4.18	0.100	5.000	0	83.6	70	130				
Benzo(a)pyrene	3.62	0.100	5.000	0	72.4	70	130				

**Qualifiers:**  
 B Analyte detected in the associated Method Blank  
 M Manual Integration used to determine area response  
 R RPD outside accepted recovery limits  
 W Sample container temperature is out of limit as specified at testcode

E Value above quantitation range  
 ND Not Detected  
 RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded  
 PL Permit Limit  
 S Spike Recovery outside accepted recovery limits



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# QC SUMMARY REPORT

WO#: 24042254

09-May-24

**Client:** Columbiana County Health District

**Project:** EP

**BatchID:** 75043

Sample ID: LCS-75043	SampType: LCS	TestCode: SVOC_DW(52	Units: µg/L	Prep Date: 5/2/2024	RunNo: 185155						
Client ID: LCSW	Batch ID: 75043	TestNo: E525	525	Analysis Date: 5/7/2024	SeqNo: 5017903						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(b)fluoranthene	3.60	0.100	5.000	0	72.0	70	130				
Benzo(g,h,i)perylene	3.49	0.100	5.000	0	69.8	70	130				S
Benzo(k)fluoranthene	3.97	0.100	5.000	0	79.4	70	130				
Chrysene	4.17	0.100	5.000	0	83.4	70	130				
Dibenz(a,h)anthracene	3.51	0.100	5.000	0	70.2	70	130				
Fluorene	3.90	0.100	5.000	0	78.0	70	130				
Indeno(1,2,3-cd)pyrene	3.45	1.00	5.000	0	69.0	70	130				S
Phenanthrene	3.83	0.100	5.000	0	76.6	70	130				
Pyrene	3.75	0.100	5.000	0	75.0	70	130				
Surr: 1,3-Dimethyl-2-nitrobenz...	2.83		5.000		56.6	70	130				S
Surr: Benzo(a)pyrene-d12	3.53		5.000		70.6	70	130				
Surr: Triphenyl phosphate	3.08		5.000		61.6	70	130				S

Sample ID: LCSD-75043	SampType: LCSD	TestCode: SVOC_DW(52	Units: µg/L	Prep Date: 5/2/2024	RunNo: 185155						
Client ID: LCSS02	Batch ID: 75043	TestNo: E525	525	Analysis Date: 5/7/2024	SeqNo: 5017905						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthylene	2.95	0.100	5.000	0	59.0	70	130	3.150	6.56	30	S
Anthracene	3.25	0.100	5.000	0	65.0	70	130	3.520	7.98	30	S
Benz(a)anthracene	3.98	0.100	5.000	0	79.6	70	130	4.150	4.18	30	
Benzo(a)pyrene	3.45	0.100	5.000	0	69.0	70	130	3.560	3.14	30	S
Benzo(b)fluoranthene	3.54	0.100	5.000	0	70.8	70	130	3.720	4.96	30	
Benzo(g,h,i)perylene	3.28	0.100	5.000	0	65.6	70	130	3.510	6.77	30	S
Benzo(k)fluoranthene	3.59	0.100	5.000	0	71.8	70	130	3.780	5.16	30	
Chrysene	3.91	0.100	5.000	0	78.2	70	130	4.170	6.44	30	

**Qualifiers:**  
 B Analyte detected in the associated Method Blank  
 M Manual Integration used to determine area response  
 R RPD outside accepted recovery limits  
 W Sample container temperature is out of limit as specified at testcode

E Value above quantitation range  
 ND Not Detected  
 RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded  
 PL Permit Limit  
 S Spike Recovery outside accepted recovery limits



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# QC SUMMARY REPORT

WO#: **24042254**  
**09-May-24**

**Client:** Columbiana County Health District  
**Project:** EP

**BatchID:** 75043

Sample ID: <b>LCSD-75043</b>	SampType: <b>LCSD</b>	TestCode: <b>SVOC_DW(52</b>	Units: <b>µg/L</b>	Prep Date: <b>5/2/2024</b>	RunNo: <b>185155</b>						
Client ID: <b>LCSS02</b>	Batch ID: <b>75043</b>	TestNo: <b>E525</b>	<b>525</b>	Analysis Date: <b>5/7/2024</b>	SeqNo: <b>5017905</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dibenz(a,h)anthracene	3.32	0.100	5.000	0	66.4	70	130	3.440	3.55	30	S
Fluorene	3.48	0.100	5.000	0	69.6	70	130	3.790	8.53	30	S
Indeno(1,2,3-cd)pyrene	3.21	1.00	5.000	0	64.2	70	130	3.360	4.57	30	S
Phenanthrene	3.50	0.100	5.000	0	70.0	70	130	3.850	9.52	30	
Pyrene	3.55	0.100	5.000	0	71.0	70	130	3.750	5.48	30	
Surr: 1,3-Dimethyl-2-nitrobenz...	2.11		5.000		42.2	70	130		0	30	S
Surr: Benzo(a)pyrene-d12	3.29		5.000		65.8	70	130		0	30	S
Surr: Triphenyl phosphate	2.86		5.000		57.2	70	130		0	30	S

**Qualifiers:**  
 B Analyte detected in the associated Method Blank  
 M Manual Integration used to determine area response  
 R RPD outside accepted recovery limits  
 W Sample container temperature is out of limit as specified at testcode

E Value above quantitation range  
 ND Not Detected  
 RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded  
 PL Permit Limit  
 S Spike Recovery outside accepted recovery limits





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

# QC SUMMARY REPORT

WO#: 24042254  
 09-May-24

**Client:** Columbiana County Health District  
**Project:** EP

**BatchID:** R184714

Sample ID: <b>LCS-R184714</b>	SampType: <b>LCS</b>	TestCode: <b>VOC-MSTR_</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>184714</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>R184714</b>	TestNo: <b>SW8260</b>	Analysis Date: <b>4/30/2024</b>	SeqNo: <b>5006459</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Ethylhexyl acrylate	21.1	5.00	20.00	0	106	70	130				
n-Butyl acrylate	20.3	5.00	20.00	0	102	70	130				
Surr: 4-Bromofluorobenzene	46.7		50.00		93.4	70	130				
Surr: Dibromofluoromethane	48.6		50.00		97.2	70	130				
Surr: Toluene-d8	48.1		50.00		96.2	70	130				

Sample ID: <b>MB-R184714</b>	SampType: <b>MBLK</b>	TestCode: <b>VOC-MSTR_</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>184714</b>						
Client ID: <b>PBW</b>	Batch ID: <b>R184714</b>	TestNo: <b>SW8260</b>	Analysis Date: <b>4/30/2024</b>	SeqNo: <b>5006462</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	44.5		50.00		89.0	70	130				
Surr: Dibromofluoromethane	48.1		50.00		96.2	70	130				
Surr: Toluene-d8	50.1		50.00		100	70	130				

Sample ID: <b>24042098-014AMS</b>	SampType: <b>MS</b>	TestCode: <b>VOC-MSTR_</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>184714</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>R184714</b>	TestNo: <b>SW8260</b>	Analysis Date: <b>4/30/2024</b>	SeqNo: <b>5006468</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Ethylhexyl acrylate	177	50.0	200.0	0	88.5	70	130				
n-Butyl acrylate	207	50.0	200.0	0	104	70	130				
Surr: 4-Bromofluorobenzene	504		500.0		101	70	130				

**Qualifiers:**  
 B Analyte detected in the associated Method Blank  
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 R RPD outside accepted recovery limits  
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E Value above quantitation range  
 ND Not Detected  
 RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded  
 PL Permit Limit  
 S Spike Recovery outside accepted recovery limits



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# QC SUMMARY REPORT

WO#: 24042254

09-May-24

**Client:** Columbiana County Health District

**Project:** EP

**BatchID:** R184714

Sample ID: <b>24042098-014AMS</b>	SampType: <b>MS</b>	TestCode: <b>VOC-MSTR_</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>184714</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>R184714</b>	TestNo: <b>SW8260</b>	Analysis Date: <b>4/30/2024</b>	SeqNo: <b>5006468</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	468		500.0		93.6	70	130				
Surr: Toluene-d8	493		500.0		98.6	46.1	154				

Sample ID: <b>24042098-014AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>VOC-MSTR_</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>184714</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>R184714</b>	TestNo: <b>SW8260</b>	Analysis Date: <b>4/30/2024</b>	SeqNo: <b>5006469</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Ethylhexyl acrylate	175	50.0	200.0	0	87.7	70	130	177.1	0.913	20	
n-Butyl acrylate	198	50.0	200.0	0	99.2	70	130	207.1	4.33	20	
Surr: 4-Bromofluorobenzene	492		500.0		98.4	70	130		0	20	
Surr: Dibromofluoromethane	488		500.0		97.6	70	130		0	20	
Surr: Toluene-d8	495		500.0		99.0	46.1	154		0	20	

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- M Manual Integration used to determine area response
- R RPD outside accepted recovery limits
- W Sample container temperature is out of limit as specified at testcode

- E Value above quantitation range
- ND Not Detected
- RL Reporting Detection Limit

- H Holding times for preparation or analysis exceeded
- PL Permit Limit
- S Spike Recovery outside accepted recovery limits



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# QC SUMMARY REPORT

WO#: 24042254  
09-May-24

**Client:** Columbiana County Health District  
**Project:** EP

**BatchID:** R184733

Sample ID: <b>LCS-R184733</b>	SampType: <b>LCS</b>	TestCode: <b>VOC_DW(524)</b> Units: <b>µg/L</b>	Prep Date:	RunNo: <b>184733</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>R184733</b>	TestNo: <b>E524.2</b>	Analysis Date: <b>4/30/2024</b>	SeqNo: <b>5007001</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloropropene	4.79	0.500	5.000	0	95.8	70	130				
1,2,4-Trimethylbenzene	4.49	0.500	5.000	0	89.8	70	130				
Benzene	4.63	0.500	5.000	0	92.5	70	130				
Ethylbenzene	4.42	0.500	5.000	0	88.5	70	130				
m,p-Xylene	9.42	0.500	10.00	0	94.2	70	130				
Naphthalene	4.22	0.500	5.000	0	84.3	70	130				
o-Xylene	4.49	0.500	5.000	0	89.7	70	130				
Toluene	4.58	0.500	5.000	0	91.6	70	130				
Vinyl chloride	4.65	0.500	5.000	0	92.9	70	130				
Surr: 1,2-Dichlorobenzene-d4	10.0		10.00		101	70	130				
Surr: 4-Bromofluorobenzene	10.1		10.00		101	70	130				

Sample ID: <b>MB-R184733</b>	SampType: <b>MBLK</b>	TestCode: <b>VOC_DW(524)</b> Units: <b>µg/L</b>	Prep Date:	RunNo: <b>184733</b>							
Client ID: <b>PBW</b>	Batch ID: <b>R184733</b>	TestNo: <b>E524.2</b>	Analysis Date: <b>4/30/2024</b>	SeqNo: <b>5007005</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:**  
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 R RPD outside accepted recovery limits  
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E Value above quantitation range  
 ND Not Detected  
 RL Reporting Detection Limit

H Holding times for preparation or analysis exceeds  
 PL Permit Limit  
 S Spike Recovery outside accepted recovery limits



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# QC SUMMARY REPORT

WO#: 24042254  
 09-May-24

**Client:** Columbiana County Health District  
**Project:** EP

**BatchID:** R184733

Sample ID: <b>MB-R184733</b>	SampType: <b>MBLK</b>	TestCode: <b>VOC_DW(524)</b> Units: <b>µg/L</b>	Prep Date:	RunNo: <b>184733</b>							
Client ID: <b>PBW</b>	Batch ID: <b>R184733</b>	TestNo: <b>E524.2</b>	Analysis Date: <b>4/30/2024</b>	SeqNo: <b>5007005</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 1,2-Dichlorobenzene-d4	9.36		10.00		93.6	70	130				
Surr: 4-Bromofluorobenzene	8.97		10.00		89.7	70	130				

Sample ID: <b>24042254-001CDUP</b>	SampType: <b>DUP</b>	TestCode: <b>VOC_DW(524)</b> Units: <b>µg/L</b>	Prep Date:	RunNo: <b>184733</b>							
Client ID: <b>PW-311</b>	Batch ID: <b>R184733</b>	TestNo: <b>E524.2</b>	Analysis Date: <b>4/30/2024</b>	SeqNo: <b>5007010</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1-Dichloropropene	ND	0.500						0	0	20	
1,2,4-Trimethylbenzene	ND	0.500						0	0	20	
Benzene	ND	0.500						0	0	20	
Ethylbenzene	ND	0.500						0	0	20	
m,p-Xylene	ND	0.500						0	0	20	
Naphthalene	ND	0.500						0	0	20	
o-Xylene	ND	0.500						0	0	20	
Toluene	ND	0.500						0	0	20	
Vinyl chloride	ND	0.500						0	0	20	
Surr: 1,2-Dichlorobenzene-d4	9.01		10.00		90.1	70	130		0	20	
Surr: 4-Bromofluorobenzene	8.99		10.00		89.9	70	130		0	20	

**Qualifiers:**  
 B Analyte detected in the associated Method Blank  
 M Manual Integration used to determine area response  
 R RPD outside accepted recovery limits  
 W Sample container temperature is out of limit as specified at testcode

E Value above quantitation range  
 ND Not Detected  
 RL Reporting Detection Limit

H Holding times for preparation or analysis exceeds  
 PL Permit Limit  
 S Spike Recovery outside accepted recovery limits



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#: **24042254**  
**09-May-24**

**Client:** Columbiana County Health District  
**Project:** EP

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
24042254-001A	PW-311	4/29/2024 11:30:00 AM	Drinking Water	Synthetic Organic Compounds by GC/ (EPA 525.3)		5/2/2024 8:20:00 AM	5/8/2024 4:41:00 AM
				Synthetic Organic Compounds by GC/ (EPA 525.3)		5/2/2024 8:20:00 AM	5/8/2024 7:41:00 PM
24042254-001B				SVOC by 8270E		4/30/2024 9:10:00 AM	5/2/2024 7:36:00 PM
24042254-001C				VOC-GC/MS (524.2)			4/30/2024 5:35:00 PM
24042254-001D				VOC by GC/MS (8260D)			4/30/2024 4:21:00 PM
24042254-002A	PW-740	4/29/2024 3:35:00 PM		Synthetic Organic Compounds by GC/ (EPA 525.3)		5/2/2024 8:20:00 AM	5/8/2024 8:14:00 PM
				Synthetic Organic Compounds by GC/ (EPA 525.3)		5/2/2024 8:20:00 AM	5/8/2024 5:14:00 AM
24042254-002B				SVOC by 8270E		4/30/2024 9:10:00 AM	5/2/2024 8:09:00 PM
24042254-002C				VOC-GC/MS (524.2)			4/30/2024 6:38:00 PM
24042254-002D				VOC by GC/MS (8260D)			4/30/2024 4:43:00 PM
24042254-003A	PW-347 FB	4/29/2024 1:45:00 PM		Synthetic Organic Compounds by GC/ (EPA 525.3)		5/2/2024 8:20:00 AM	5/8/2024 5:47:00 AM
				Synthetic Organic Compounds by GC/ (EPA 525.3)		5/2/2024 8:20:00 AM	5/8/2024 8:47:00 PM
24042254-003B				SVOC by 8270E		4/30/2024 9:10:00 AM	5/2/2024 8:41:00 PM
24042254-003C				VOC-GC/MS (524.2)			4/30/2024 7:10:00 PM
24042254-003D				VOC by GC/MS (8260D)			4/30/2024 5:06:00 PM
24042254-004A	PW-347	4/29/2024 2:15:00 PM		Synthetic Organic Compounds by GC/ (EPA 525.3)		5/2/2024 8:20:00 AM	5/8/2024 9:21:00 PM
				Synthetic Organic Compounds by GC/ (EPA 525.3)		5/2/2024 8:20:00 AM	5/8/2024 6:20:00 AM
24042254-004B				SVOC by 8270E		4/30/2024 9:10:00 AM	5/2/2024 9:13:00 PM
24042254-004C				VOC-GC/MS (524.2)			4/30/2024 7:41:00 PM
24042254-004D				VOC by GC/MS (8260D)			4/30/2024 5:29:00 PM

Original



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# DATES REPORT

WO#: **24042254**

**09-May-24**

**Client:** Columbiana County Health District

**Project:** EP

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
24042254-005A	PW-18	4/29/2024 9:35:00 AM	Drinking Water	Synthetic Organic Compounds by GC/ (EPA 525.3)		5/2/2024 8:20:00 AM	5/8/2024 9:54:00 PM
				Synthetic Organic Compounds by GC/ (EPA 525.3)		5/2/2024 8:20:00 AM	5/8/2024 6:54:00 AM
24042254-005B				SVOC by 8270E		4/30/2024 9:10:00 AM	5/2/2024 9:44:00 PM
24042254-005C				VOC-GC/MS (524.2)			4/30/2024 8:13:00 PM
24042254-005D				VOC by GC/MS (8260D)			4/30/2024 5:52:00 PM
24042254-006A	Dup	4/29/2024		Synthetic Organic Compounds by GC/ (EPA 525.3)		5/2/2024 8:20:00 AM	5/8/2024 10:27:00 PM
				Synthetic Organic Compounds by GC/ (EPA 525.3)		5/2/2024 8:20:00 AM	5/8/2024 7:27:00 AM
24042254-006B				SVOC by 8270E		4/30/2024 9:10:00 AM	5/2/2024 10:16:00 PM
24042254-006C				VOC-GC/MS (524.2)			4/30/2024 8:44:00 PM
24042254-006D				VOC by GC/MS (8260D)			4/30/2024 6:14:00 PM
24042254-007A	Trip Blank 1			VOC-GC/MS (524.2)			4/30/2024 4:00:00 PM
24042254-007B				VOC by GC/MS (8260D)			4/30/2024 6:37:00 PM
24042254-008A	Trip Blank 2			VOC-GC/MS (524.2)			4/30/2024 4:32:00 PM
24042254-008B				VOC by GC/MS (8260D)			4/30/2024 7:00:00 PM
24042254-009A	Trip Blank 3			VOC-GC/MS (524.2)			4/30/2024 5:03:00 PM
24042254-009B				VOC by GC/MS (8260D)			4/30/2024 7:23:00 PM

Original



Analysis Request / Chain of Custody

Refer to Terms and Conditions at www.settek.com

24042259

Client Name <b>CCHD</b>		Project Identification <b>FP</b>			Analytical Parameters and Methods Requested										
Client Phone <b>330-424-0272</b>		Report To <b>CCHD</b>													
Contact Person <b>Kevin Summerville</b>		PO #		Quote Number		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)									
Client Email Address <b>ksummerville@columbiana-health.org</b>		PWS ID <b>PW-311</b>		Facility ID											
Sampled By (Print Name and Provide Signature) <b>Kevin Summerville</b>		Reporting/Accreditation Requirements: <input type="checkbox"/> Ohio VAP <input type="checkbox"/> Ohio EPA Pb, Cu <input checked="" type="checkbox"/> Drinking Water Compliance <input type="checkbox"/> Other Compliance (List State/ Program):													
Sign: <b>[Signature]</b>		For DW only, results to be reported to state by lab? If yes, lab fee may apply: <input type="checkbox"/> Y <input type="checkbox"/> N													
#	Sample Point ID	Sample Identification	Date Collected	Time Collected	Grab Sample	Composite Sample	Matrix	Preservation	Number of Containers per Sample					For DW Only: Special Compliance or Routine (S/R)	
	PW-311	kitchen faucet	4/29/24	1130	✓		DW	8	10	X	X	X	X		
Relinquished by:		Date	Time	Received by:		Date	Time	Notes / Comments:							
<b>[Signature]</b>		4/30/24	8:00 am	<b>[Signature]</b>		4/30	7:55	524-HCl, 8260-HCl, 525.2-unknown 2.3-0.2 CS intact 4/29/24 Kevin Sullivan							
		4/30	12:40					Sufficient volume provided to run QC? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO				Cooler? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			
Received at Summit by:		Date	Time	Carrier		Rush Requested: _____ Day(s)		Received Temp.:		Other Container:					
<b>[Signature]</b>		APR 30 2024	12 40	SET		Must be approved by Lab Manager		2.1 °C		Ice Present? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> MELTED					





### Analysis Request / Chain of Custody

Refer to Terms and Conditions at www.settek.com

SET WO NO.:	For Summit Environmental Technologies, Inc. use only
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Client Name <b>CC+D</b>		Project Identification <b>EP</b>		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									
Client Phone <b>330-424-0272</b>		Report To <b>CC+D</b>							524	8278	525.2	8260						
Contact Person <b>Kevin Summerville</b>		PO #																
Client Email Address <b>ksummerville@columbiana-health.com</b>		PWS ID <b>PW-740</b>							Facility ID									
Sampled By (Print Name and Provide Signature) <b>Kevin Summerville</b>		Reporting/Accreditation Requirements:																
Print: <b>Kevin Summerville</b>		<input type="checkbox"/> Ohio VAP		<input type="checkbox"/> Ohio EPA Pb, Cu														
Sign: <b>Kevin Summerville</b>		<input type="checkbox"/> Drinking Water Compliance		<input type="checkbox"/> Other Compliance (List State/ Program):														
For DW only, results to be reported to state by lab? If yes, lab fee may apply: <input type="checkbox"/> Y <input type="checkbox"/> N																		
#	Sample Point ID	Sample Identification	Date Collected	Time Collected	Grab Sample	Composite Sample	Matrix	Preservation	Number of Containers per Sample	524	8278	525.2	8260	For DW Only: Special Compliance or Routine (S/R)				
	PW-740	Outside Spigot	4/29/24	1535	✓		DW	8	10	X	X	X	X					
Relinquished by:										Notes / Comments:								
Date		Time		Received by:		Date		Time		CS intact - 4/29/24 - Kevin Sullivan								
4/30/24		6:00 AM		<i>[Signature]</i>		4/30		7:55		524-HCl, 8260-HCl, 525.2-unknown								
7/30		12:45								Bottle of Ortho Ground Clear Concentrate 2ft from sample tap								
Received at Summit by:										Received Temp.:		Other Container:						
Date		Time		Carrier		Rush Requested:		Day(s)		4.5 °C		Ice Present? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> MELTED						
APR 30 2024		12 40		SET		Must be approved by Lab Manager				4.7-0.2								



Analysis Request / Chain of Custody

Refer to Terms and Conditions at www.settek.com

SET WO NO.: For Summit Environmental Technologies, Inc. use only

Client Name: **CC HD**  
 Project Identification: **FP**

Client Phone: **330-424-0272**  
 Report To: **CC HD**  
 Contact Person: **Kevin Summerville**  
 PO #:   
 Quote Number:   
 Client Email Address: **ksummerville@columbiana-health.org**  
 PWS ID: **PW-347**  
 Facility ID:   
 Sampled By (Print Name and Provide Signature): **Kevin Summerville**  
 Reporting/Accreditation Requirements:  
 Ohio VAP  Ohio EPA Pb, Cu  
 Drinking Water Compliance  
 Other Compliance (List State/ Program):  
 For DW only, results to be reported to state by lab? If yes, lab fee may apply:  Y  N

#	Sample Point ID	Sample Identification	Date Collected	Time Collected	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
	PW-347	Field Blank	4/29/24	1345	✓	L		8	10
	PW-347	Outside Spigot	4/29/24	1415	✓	DW		8	10

Analytical Parameters and Methods Requested										
524	8270	525.2	8260							For DW Only: Special Compliance or Routine (SIR)
X	X	X	X							

Relinquished by:	Date	Time	Received by:	Date	Time
<i>[Signature]</i>	4/30/24	8:00 am	<i>[Signature]</i>	4/30	7:58
<i>[Signature]</i>	4/30	12:40			

Notes / Comments:  
 524-HCl, 8260-HCl, 525.2-unknown  
 4.7-0.2, 2.1-0.2  
 CS intact - 4/29/24 - Kevin Sullivan

Sufficient volume provided to run QC?  YES  NO  
 Cooler?  YES  NO

Received at Summit by: **Anthony B. [Signature]** Date: **APR 30 2024** Time: **12 40** Carrier: **SET**

Rush Requested: \_\_\_\_\_ Day(s)  
 Must be received by \_\_\_\_\_ Lab Manager  
 Received Temp.: **4.5, 1.9 °C**  
 Other Container: \_\_\_\_\_  
 Ice Present?  YES  NO  MELTED



### Analysis Request / Chain of Custody

Refer to Terms and Conditions at [www.settek.com](http://www.settek.com)

SET WO NO.:	For Summit Environmental Technologies, Inc. use only
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Client Name <b>CC HD</b>	Project Identification <b>EP</b>	<b>Analytical Parameters and Methods Requested</b>										
Client Phone <b>330-424-0272</b>	Report to <b>CC HD</b>											
Contact Person <b>Kevin Summerville</b>	PO #											Quote Number
Client Email Address <b>ksummerville@columbiana-health.org</b>	PWS ID <b>PW-18</b>											Facility ID
Print: <b>Kevin Summerville</b>	Reporting/Accreditation Requirements:		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 524 828 525.2 828	Analytical Parameters and Methods Requested						For DW Only: Special Compliance or Routine (S/R)	
Sign: <b>Kevin Summerville</b>	<input type="checkbox"/> Ohio VAP	<input type="checkbox"/> Ohio EPA Pb, Cu										
For DW only, results to be reported to state by lab? If yes, lab fee may apply: <input type="checkbox"/> Y <input type="checkbox"/> N												

#	Sample Point ID	Sample Identification	Date Collected	Time Collected	Grab Sample	Composite Sample	Matrix	Preservation	Number of Containers per Sample	Analytical Parameters and Methods Requested						For DW Only: Special Compliance or Routine (S/R)		
	PW-18	Outside spigot	4/29/24	9:35	✓		DW	8	10	X	X	X	X					

Relinquished by:	Date	Time	Received by:	Date	Time	Notes / Comments: 524-HCl, 8260-HCl, 525.2-unknown 2.1-0.2 CS intact 4/29/24 Kevin Sullivan	
<i>[Signature]</i>	4/30	12:40	<i>[Signature]</i>	4/30	7:55		
Sufficient volume provided to run QC? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						Cooler? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
Received at Summit by:	Date	Time	Carrier	Rush Requested:	Day(s)	Received Temp.:	Other Container:
<i>[Signature]</i>	APR 30	2024	SET	Must be by	3:30	1.9 °C	Ice Present? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> MELTED





Summit Environmental Technologies, Inc.  
 3310 Win St.  
 Cuyahoga Falls, Ohio 44223  
 TEL: (330) 253-8211 FAX: (330) 253-4489  
 Website: http://www.settek.com

# Sample Log-In Check List

Client Name: COL-OH-44432      Work Order Number: 24042254      RcptNo: 1

Logged by:	Anthony W. Britton	4/30/2024 12:40:00 PM	<i>Anthony Britton</i>
Completed By:	Anthony W. Britton	4/30/2024 3:09:40 PM	<i>Anthony Britton</i>
Reviewed By:	Holly Florea	5/1/2024 7:18:50 AM	<i>Holly Florea</i>

**Chain of Custody**

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

**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   
 No. N/A      Seal Date: 4/29/2024      Signed By: Kevin Summerville  
 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:

**Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.5	Good	Yes	N/A	4/29/2024	Kevin Summe
2	2.1	Good	Yes	N/A	4/29/2024	Kevin Summe
3	1.9	Good	Yes	N/A	4/29/2024	Kevin Summe