



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

April 16, 2024

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

Order No.: 24040530

Dear Kevin Summerville:

Summit Environmental Technologies, Inc. received 8 sample(s) on 4/8/2024 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#: **24040530**  
**16-Apr-24**

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

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
24040530-001	PW-665		4/6/2024 10:50:00 AM	4/8/2024 12:15:00 PM	Drinking Water
24040530-001	PW-665		4/6/2024 10:50:00 AM	4/8/2024 12:15:00 PM	Drinking Water
24040530-001	PW-665		4/6/2024 10:50:00 AM	4/8/2024 12:15:00 PM	Drinking Water
24040530-001	PW-665		4/6/2024 10:50:00 AM	4/8/2024 12:15:00 PM	Drinking Water
24040530-002	dupe		4/6/2024	4/8/2024 12:15:00 PM	Drinking Water
24040530-002	dupe		4/6/2024	4/8/2024 12:15:00 PM	Drinking Water
24040530-002	dupe		4/6/2024	4/8/2024 12:15:00 PM	Drinking Water
24040530-002	dupe		4/6/2024	4/8/2024 12:15:00 PM	Drinking Water
24040530-003	PW-670		4/6/2024 10:00:00 AM	4/8/2024 12:15:00 PM	Drinking Water
24040530-003	PW-670		4/6/2024 10:00:00 AM	4/8/2024 12:15:00 PM	Drinking Water
24040530-003	PW-670		4/6/2024 10:00:00 AM	4/8/2024 12:15:00 PM	Drinking Water
24040530-003	PW-670		4/6/2024 10:00:00 AM	4/8/2024 12:15:00 PM	Drinking Water
24040530-004	PW-670 FB		4/6/2024 9:15:00 AM	4/8/2024 12:15:00 PM	Drinking Water
24040530-004	PW-670 FB		4/6/2024 9:15:00 AM	4/8/2024 12:15:00 PM	Drinking Water
24040530-004	PW-670 FB		4/6/2024 9:15:00 AM	4/8/2024 12:15:00 PM	Drinking Water
24040530-004	PW-670 FB		4/6/2024 9:15:00 AM	4/8/2024 12:15:00 PM	Drinking Water
24040530-005	PW-636		4/6/2024 2:10:00 PM	4/8/2024 12:15:00 PM	Drinking Water
24040530-005	PW-636		4/6/2024 2:10:00 PM	4/8/2024 12:15:00 PM	Drinking Water
24040530-005	PW-636		4/6/2024 2:10:00 PM	4/8/2024 12:15:00 PM	Drinking Water
24040530-005	PW-636		4/6/2024 2:10:00 PM	4/8/2024 12:15:00 PM	Drinking Water
24040530-006	Trip Blank 1			4/8/2024 12:15:00 PM	Drinking Water
24040530-006	Trip Blank 1			4/8/2024 12:15:00 PM	Drinking Water
24040530-007	Trip Blank 2			4/8/2024 12:15:00 PM	Drinking Water



**SUMMIT**  
ENVIRONMENTAL TECHNOLOGIES, INC  
Analytical Laboratories

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## Workorder Sample Summary

WO#: **24040530**  
**16-Apr-24**

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

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Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
24040530-007	Trip Blank 2			4/8/2024 12:15:00 PM	Drinking Water
24040530-008	Trip Blank 3			4/8/2024 12:15:00 PM	Drinking Water
24040530-008	Trip Blank 3			4/8/2024 12:15:00 PM	Drinking Water



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## Case Narrative

WO#: 24040530  
Date: 4/16/2024

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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.

### Analytical Sequence Sample Notes:

24040530-001D VOC-MSTR\_NPW(8260D): Corresponding MS exhibits outlying recovery. The method is in control as indicated by the Laboratory Control Sample (LCS)

24040530-001 through 005 SVOC\_DW(525.3): MB-74531 exhibited a detection for Acenaphthylene, confirmed by reanalysis. Sample is ND for Acenaphthylene.

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Original



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# Analytical Report

(consolidated)

WO#: 24040530

Date Reported: 4/16/2024

**CLIENT:** Columbiana County Health District **Collection Date:** 4/6/2024 10:50:00 AM  
**Project:** EP  
**Lab ID:** 24040530-001 **Matrix:** DRINKING WATER  
**Client Sample ID:** PW-665

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	MB+	µg/L	1	4/15/2024 5:33:00 AM
Anthracene	ND	0.0980		µg/L	1	4/15/2024 5:33:00 AM
Benz(a)anthracene	ND	0.0980		µg/L	1	4/15/2024 5:33:00 AM
Benzo(a)pyrene	ND	0.0980		µg/L	1	4/15/2024 5:33:00 AM
Benzo(b)fluoranthene	ND	0.0980		µg/L	1	4/15/2024 5:33:00 AM
Benzo(g,h,i)perylene	ND	0.0980		µg/L	1	4/15/2024 5:33:00 AM
Benzo(k)fluoranthene	ND	0.0980		µg/L	1	4/15/2024 5:33:00 AM
Chrysene	ND	0.0980		µg/L	1	4/15/2024 5:33:00 AM
Dibenz(a,h)anthracene	ND	0.0980		µg/L	1	4/15/2024 5:33:00 AM
Fluorene	ND	0.0980		µg/L	1	4/15/2024 5:33:00 AM
Indeno(1,2,3-cd)pyrene	ND	0.980		µg/L	1	4/15/2024 5:33:00 AM
Phenanthrene	ND	0.0980		µg/L	1	4/15/2024 5:33:00 AM
Pyrene	ND	0.0980		µg/L	1	4/15/2024 5:33:00 AM
Surr: 1,3-Dimethyl-2-nitrobenzene	94.2	70 - 130		%Rec	1	4/15/2024 5:33:00 AM
Surr: Benzo(a)pyrene-d12	91.8	70 - 130		%Rec	1	4/15/2024 5:33:00 AM
Surr: Triphenyl phosphate	114	70 - 130		%Rec	1	4/15/2024 5:33:00 AM
<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	4/13/2024 1:23:00 AM
2-Butoxyethanol	ND	29.4		µg/L	1	4/13/2024 1:23:00 AM
2-Methylnaphthalene	ND	0.980		µg/L	1	4/13/2024 1:23:00 AM
Acenaphthene	ND	0.980		µg/L	1	4/13/2024 1:23:00 AM
Fluoranthene	ND	0.980		µg/L	1	4/13/2024 1:23:00 AM
Surr: Nitrobenzene-d5	74.0	10 - 130		%Rec	1	4/13/2024 1:23:00 AM
Surr: 2-Fluorobiphenyl	82.2	10 - 130		%Rec	1	4/13/2024 1:23:00 AM
Surr: p-Terphenyl-d14	94.3	20 - 181		%Rec	1	4/13/2024 1:23:00 AM
<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	4/9/2024 9:24:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	4/9/2024 9:24:00 PM
Benzene	ND	0.500		µg/L	1	4/9/2024 9:24:00 PM
Ethylbenzene	ND	0.500		µg/L	1	4/9/2024 9:24:00 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#: 24040530

Date Reported: 4/16/2024

**CLIENT:** Columbiana County Health District **Collection Date:** 4/6/2024 10:50:00 AM  
**Project:** EP  
**Lab ID:** 24040530-001 **Matrix:** DRINKING WATER  
**Client Sample ID:** PW-665

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	4/9/2024 9:24:00 PM
Naphthalene	ND	0.500		µg/L	1	4/9/2024 9:24:00 PM
o-Xylene	ND	0.500		µg/L	1	4/9/2024 9:24:00 PM
Toluene	ND	0.500		µg/L	1	4/9/2024 9:24:00 PM
Vinyl chloride	ND	0.500		µg/L	1	4/9/2024 9:24:00 PM
Surr: 1,2-Dichlorobenzene-d4	97.5	70 - 130		%Rec	1	4/9/2024 9:24:00 PM
Surr: 4-Bromofluorobenzene	95.3	70 - 130		%Rec	1	4/9/2024 9:24:00 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	4/9/2024 12:17:00 PM
n-Butyl acrylate	ND	5.00	QM+	µg/L	1	4/9/2024 12:17:00 PM
Surr: 4-Bromofluorobenzene	104	70 - 130		%Rec	1	4/9/2024 12:17:00 PM
Surr: Dibromofluoromethane	98.9	70 - 130		%Rec	1	4/9/2024 12:17:00 PM
Surr: Toluene-d8	98.0	70 - 130		%Rec	1	4/9/2024 12:17:00 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#: 24040530

Date Reported: 4/16/2024

**CLIENT:** Columbiana County Health District

**Collection Date:** 4/6/2024

**Project:** EP

**Lab ID:** 24040530-002

**Matrix:** DRINKING WATER

**Client Sample ID:** dupe

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

Acenaphthylene	ND	0.0966	MB+	µg/L	1	4/15/2024 6:06:00 AM
Anthracene	ND	0.0966		µg/L	1	4/15/2024 6:06:00 AM
Benz(a)anthracene	ND	0.0966		µg/L	1	4/15/2024 6:06:00 AM
Benzo(a)pyrene	ND	0.0966		µg/L	1	4/15/2024 6:06:00 AM
Benzo(b)fluoranthene	ND	0.0966		µg/L	1	4/15/2024 6:06:00 AM
Benzo(g,h,i)perylene	ND	0.0966		µg/L	1	4/15/2024 6:06:00 AM
Benzo(k)fluoranthene	ND	0.0966		µg/L	1	4/15/2024 6:06:00 AM
Chrysene	ND	0.0966		µg/L	1	4/15/2024 6:06:00 AM
Dibenz(a,h)anthracene	ND	0.0966		µg/L	1	4/15/2024 6:06:00 AM
Fluorene	ND	0.0966		µg/L	1	4/15/2024 6:06:00 AM
Indeno(1,2,3-cd)pyrene	ND	0.966		µg/L	1	4/15/2024 6:06:00 AM
Phenanthrene	ND	0.0966		µg/L	1	4/15/2024 6:06:00 AM
Pyrene	ND	0.0966		µg/L	1	4/15/2024 6:06:00 AM
Surr: 1,3-Dimethyl-2-nitrobenzene	89.2	70 - 130		%Rec	1	4/15/2024 6:06:00 AM
Surr: Benzo(a)pyrene-d12	93.2	70 - 130		%Rec	1	4/15/2024 6:06:00 AM
Surr: Triphenyl phosphate	110	70 - 130		%Rec	1	4/15/2024 6:06:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>SVOC BY SW8270E</b>					<b>SW8270</b>	<b>SW3510C</b>
<b>SVOC BY 8270E</b>						Analyst: <b>SAM</b>

1-Methylnaphthalene	ND	0.980		µg/L	1	4/13/2024 1:54:00 AM
2-Butoxyethanol	ND	29.4		µg/L	1	4/13/2024 1:54:00 AM
2-Methylnaphthalene	ND	0.980		µg/L	1	4/13/2024 1:54:00 AM
Acenaphthene	ND	0.980		µg/L	1	4/13/2024 1:54:00 AM
Fluoranthene	ND	0.980		µg/L	1	4/13/2024 1:54:00 AM
Surr: Nitrobenzene-d5	76.6	10 - 130		%Rec	1	4/13/2024 1:54:00 AM
Surr: 2-Fluorobiphenyl	85.8	10 - 130		%Rec	1	4/13/2024 1:54:00 AM
Surr: p-Terphenyl-d14	105	20 - 181		%Rec	1	4/13/2024 1:54:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>DRINKING WATER VOCS (EPA 524.2)</b>					<b>E524.2</b>	<b>Analyst: ALS</b>
<b>VOC-GC/MS (524.2)</b>						

1,1-Dichloropropene	ND	0.500		µg/L	1	4/9/2024 9:56:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	4/9/2024 9:56:00 PM
Benzene	ND	0.500		µg/L	1	4/9/2024 9:56:00 PM
Ethylbenzene	ND	0.500		µg/L	1	4/9/2024 9:56:00 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#: **24040530**

Date Reported: **4/16/2024**

**CLIENT:** Columbiana County Health District

**Collection Date:** 4/6/2024

**Project:** EP

**Lab ID:** 24040530-002

**Matrix:** DRINKING WATER

**Client Sample ID:** dupe

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	4/9/2024 9:56:00 PM
Naphthalene	ND	0.500		µg/L	1	4/9/2024 9:56:00 PM
o-Xylene	ND	0.500		µg/L	1	4/9/2024 9:56:00 PM
Toluene	ND	0.500		µg/L	1	4/9/2024 9:56:00 PM
Vinyl chloride	ND	0.500		µg/L	1	4/9/2024 9:56:00 PM
Surr: 1,2-Dichlorobenzene-d4	94.6	70 - 130		%Rec	1	4/9/2024 9:56:00 PM
Surr: 4-Bromofluorobenzene	96.7	70 - 130		%Rec	1	4/9/2024 9:56:00 PM

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

**SW8260**

Analyst: **ZDA**

2-Ethylhexyl acrylate	ND	5.00		µg/L	1	4/9/2024 1:53:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	4/9/2024 1:53:00 PM
Surr: 4-Bromofluorobenzene	104	70 - 130		%Rec	1	4/9/2024 1:53:00 PM
Surr: Dibromofluoromethane	99.5	70 - 130		%Rec	1	4/9/2024 1:53:00 PM
Surr: Toluene-d8	98.8	70 - 130		%Rec	1	4/9/2024 1:53:00 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#: 24040530

Date Reported: 4/16/2024

**CLIENT:** Columbiana County Health District **Collection Date:** 4/6/2024 10:00:00 AM  
**Project:** EP  
**Lab ID:** 24040530-003 **Matrix:** DRINKING WATER  
**Client Sample ID:** PW-670

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	MB+	µg/L	1	4/15/2024 6:39:00 AM
Anthracene	ND	0.0980		µg/L	1	4/15/2024 6:39:00 AM
Benz(a)anthracene	ND	0.0980		µg/L	1	4/15/2024 6:39:00 AM
Benzo(a)pyrene	ND	0.0980		µg/L	1	4/15/2024 6:39:00 AM
Benzo(b)fluoranthene	ND	0.0980		µg/L	1	4/15/2024 6:39:00 AM
Benzo(g,h,i)perylene	ND	0.0980		µg/L	1	4/15/2024 6:39:00 AM
Benzo(k)fluoranthene	ND	0.0980		µg/L	1	4/15/2024 6:39:00 AM
Chrysene	ND	0.0980		µg/L	1	4/15/2024 6:39:00 AM
Dibenz(a,h)anthracene	ND	0.0980		µg/L	1	4/15/2024 6:39:00 AM
Fluorene	ND	0.0980		µg/L	1	4/15/2024 6:39:00 AM
Indeno(1,2,3-cd)pyrene	ND	0.980		µg/L	1	4/15/2024 6:39:00 AM
Phenanthrene	ND	0.0980		µg/L	1	4/15/2024 6:39:00 AM
Pyrene	ND	0.0980		µg/L	1	4/15/2024 6:39:00 AM
Surr: 1,3-Dimethyl-2-nitrobenzene	92.8	70 - 130		%Rec	1	4/15/2024 6:39:00 AM
Surr: Benzo(a)pyrene-d12	88.6	70 - 130		%Rec	1	4/15/2024 6:39:00 AM
Surr: Triphenyl phosphate	113	70 - 130		%Rec	1	4/15/2024 6:39:00 AM
<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	4/13/2024 2:26:00 AM
2-Butoxyethanol	ND	29.4		µg/L	1	4/13/2024 2:26:00 AM
2-Methylnaphthalene	ND	0.980		µg/L	1	4/13/2024 2:26:00 AM
Acenaphthene	ND	0.980		µg/L	1	4/13/2024 2:26:00 AM
Fluoranthene	ND	0.980		µg/L	1	4/13/2024 2:26:00 AM
Surr: Nitrobenzene-d5	72.3	10 - 130		%Rec	1	4/13/2024 2:26:00 AM
Surr: 2-Fluorobiphenyl	82.8	10 - 130		%Rec	1	4/13/2024 2:26:00 AM
Surr: p-Terphenyl-d14	102	20 - 181		%Rec	1	4/13/2024 2:26:00 AM
<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	4/9/2024 10:28:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	4/9/2024 10:28:00 PM
Benzene	ND	0.500		µg/L	1	4/9/2024 10:28:00 PM
Ethylbenzene	ND	0.500		µg/L	1	4/9/2024 10:28:00 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#: 24040530

Date Reported: 4/16/2024

**CLIENT:** Columbiana County Health District **Collection Date:** 4/6/2024 10:00:00 AM  
**Project:** EP  
**Lab ID:** 24040530-003 **Matrix:** DRINKING WATER  
**Client Sample ID:** PW-670

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	4/9/2024 10:28:00 PM
Naphthalene	ND	0.500		µg/L	1	4/9/2024 10:28:00 PM
o-Xylene	ND	0.500		µg/L	1	4/9/2024 10:28:00 PM
Toluene	ND	0.500		µg/L	1	4/9/2024 10:28:00 PM
Vinyl chloride	ND	0.500		µg/L	1	4/9/2024 10:28:00 PM
Surr: 1,2-Dichlorobenzene-d4	97.3	70 - 130		%Rec	1	4/9/2024 10:28:00 PM
Surr: 4-Bromofluorobenzene	97.7	70 - 130		%Rec	1	4/9/2024 10:28:00 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	4/9/2024 2:17:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	4/9/2024 2:17:00 PM
Surr: 4-Bromofluorobenzene	99.4	70 - 130		%Rec	1	4/9/2024 2:17:00 PM
Surr: Dibromofluoromethane	100	70 - 130		%Rec	1	4/9/2024 2:17:00 PM
Surr: Toluene-d8	97.6	70 - 130		%Rec	1	4/9/2024 2:17:00 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#: 24040530

Date Reported: 4/16/2024

**CLIENT:** Columbiana County Health District **Collection Date:** 4/6/2024 9:15:00 AM  
**Project:** EP  
**Lab ID:** 24040530-004 **Matrix:** DRINKING WATER  
**Client Sample ID:** PW-670 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	0.0971	MB+	µg/L	1	4/15/2024 7:12:00 AM
Anthracene	ND	0.0971		µg/L	1	4/15/2024 7:12:00 AM
Benz(a)anthracene	ND	0.0971		µg/L	1	4/15/2024 7:12:00 AM
Benzo(a)pyrene	ND	0.0971		µg/L	1	4/15/2024 7:12:00 AM
Benzo(b)fluoranthene	ND	0.0971		µg/L	1	4/15/2024 7:12:00 AM
Benzo(g,h,i)perylene	ND	0.0971		µg/L	1	4/15/2024 7:12:00 AM
Benzo(k)fluoranthene	ND	0.0971		µg/L	1	4/15/2024 7:12:00 AM
Chrysene	ND	0.0971		µg/L	1	4/15/2024 7:12:00 AM
Dibenz(a,h)anthracene	ND	0.0971		µg/L	1	4/15/2024 7:12:00 AM
Fluorene	ND	0.0971		µg/L	1	4/15/2024 7:12:00 AM
Indeno(1,2,3-cd)pyrene	ND	0.971		µg/L	1	4/15/2024 7:12:00 AM
Phenanthrene	ND	0.0971		µg/L	1	4/15/2024 7:12:00 AM
Pyrene	ND	0.0971		µg/L	1	4/15/2024 7:12:00 AM
Surr: 1,3-Dimethyl-2-nitrobenzene	93.2	70 - 130		%Rec	1	4/15/2024 7:12:00 AM
Surr: Benzo(a)pyrene-d12	94.8	70 - 130		%Rec	1	4/15/2024 7:12:00 AM
Surr: Triphenyl phosphate	115	70 - 130		%Rec	1	4/15/2024 7:12:00 AM
<b>SVOC BY SW8270E</b>				<b>SW8270</b>	<b>SW3510C</b>	Analyst: <b>SAM</b>
<b>SVOC BY 8270E</b>						
1-Methylnaphthalene	ND	0.990		µg/L	1	4/13/2024 2:57:00 AM
2-Butoxyethanol	ND	29.7		µg/L	1	4/13/2024 2:57:00 AM
2-Methylnaphthalene	ND	0.990		µg/L	1	4/13/2024 2:57:00 AM
Acenaphthene	ND	0.990		µg/L	1	4/13/2024 2:57:00 AM
Fluoranthene	ND	0.990		µg/L	1	4/13/2024 2:57:00 AM
Surr: Nitrobenzene-d5	70.8	10 - 130		%Rec	1	4/13/2024 2:57:00 AM
Surr: 2-Fluorobiphenyl	79.3	10 - 130		%Rec	1	4/13/2024 2:57:00 AM
Surr: p-Terphenyl-d14	92.9	20 - 181		%Rec	1	4/13/2024 2:57:00 AM
<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	4/10/2024 1:21:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	4/10/2024 1:21:00 PM
Benzene	ND	0.500		µg/L	1	4/10/2024 1:21:00 PM
Ethylbenzene	ND	0.500		µg/L	1	4/10/2024 1:21:00 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#: **24040530**

Date Reported: **4/16/2024**

**CLIENT:** Columbiana County Health District **Collection Date:** 4/6/2024 9:15:00 AM  
**Project:** EP  
**Lab ID:** 24040530-004 **Matrix:** DRINKING WATER  
**Client Sample ID:** PW-670 FB

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	4/10/2024 1:21:00 PM
Naphthalene	ND	0.500		µg/L	1	4/10/2024 1:21:00 PM
o-Xylene	ND	0.500		µg/L	1	4/10/2024 1:21:00 PM
Toluene	ND	0.500		µg/L	1	4/10/2024 1:21:00 PM
Vinyl chloride	ND	0.500		µg/L	1	4/10/2024 1:21:00 PM
Surr: 1,2-Dichlorobenzene-d4	92.3	70 - 130		%Rec	1	4/10/2024 1:21:00 PM
Surr: 4-Bromofluorobenzene	95.1	70 - 130		%Rec	1	4/10/2024 1:21:00 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	4/9/2024 2:42:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	4/9/2024 2:42:00 PM
Surr: 4-Bromofluorobenzene	100	70 - 130		%Rec	1	4/9/2024 2:42:00 PM
Surr: Dibromofluoromethane	102	70 - 130		%Rec	1	4/9/2024 2:42:00 PM
Surr: Toluene-d8	99.4	70 - 130		%Rec	1	4/9/2024 2:42:00 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#: 24040530

Date Reported: 4/16/2024

**CLIENT:** Columbiana County Health District **Collection Date:** 4/6/2024 2:10:00 PM  
**Project:** EP  
**Lab ID:** 24040530-005 **Matrix:** DRINKING WATER  
**Client Sample ID:** PW-636

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	MB+	µg/L	1	4/15/2024 7:45:00 AM
Anthracene	ND	0.0971		µg/L	1	4/15/2024 7:45:00 AM
Benz(a)anthracene	ND	0.0971		µg/L	1	4/15/2024 7:45:00 AM
Benzo(a)pyrene	ND	0.0971		µg/L	1	4/15/2024 7:45:00 AM
Benzo(b)fluoranthene	ND	0.0971		µg/L	1	4/15/2024 7:45:00 AM
Benzo(g,h,i)perylene	ND	0.0971		µg/L	1	4/15/2024 7:45:00 AM
Benzo(k)fluoranthene	ND	0.0971		µg/L	1	4/15/2024 7:45:00 AM
Chrysene	ND	0.0971		µg/L	1	4/15/2024 7:45:00 AM
Dibenz(a,h)anthracene	ND	0.0971		µg/L	1	4/15/2024 7:45:00 AM
Fluorene	ND	0.0971		µg/L	1	4/15/2024 7:45:00 AM
Indeno(1,2,3-cd)pyrene	ND	0.971		µg/L	1	4/15/2024 7:45:00 AM
Phenanthrene	ND	0.0971		µg/L	1	4/15/2024 7:45:00 AM
Pyrene	ND	0.0971		µg/L	1	4/15/2024 7:45:00 AM
Surr: 1,3-Dimethyl-2-nitrobenzene	93.2	70 - 130		%Rec	1	4/15/2024 7:45:00 AM
Surr: Benzo(a)pyrene-d12	93.2	70 - 130		%Rec	1	4/15/2024 7:45:00 AM
Surr: Triphenyl phosphate	114	70 - 130		%Rec	1	4/15/2024 7:45:00 AM
<b>SVOC BY SW8270E</b>				<b>SW8270</b>	<b>SW3510C</b>	Analyst: <b>SAM</b>
<b>SVOC BY 8270E</b>						
1-Methylnaphthalene	ND	0.962		µg/L	1	4/13/2024 3:29:00 AM
2-Butoxyethanol	ND	28.8		µg/L	1	4/13/2024 3:29:00 AM
2-Methylnaphthalene	ND	0.962		µg/L	1	4/13/2024 3:29:00 AM
Acenaphthene	ND	0.962		µg/L	1	4/13/2024 3:29:00 AM
Fluoranthene	ND	0.962		µg/L	1	4/13/2024 3:29:00 AM
Surr: Nitrobenzene-d5	69.1	10 - 130		%Rec	1	4/13/2024 3:29:00 AM
Surr: 2-Fluorobiphenyl	77.8	10 - 130		%Rec	1	4/13/2024 3:29:00 AM
Surr: p-Terphenyl-d14	91.6	20 - 181		%Rec	1	4/13/2024 3:29:00 AM
<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	4/10/2024 1:53:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	4/10/2024 1:53:00 PM
Benzene	ND	0.500		µg/L	1	4/10/2024 1:53:00 PM
Ethylbenzene	ND	0.500		µg/L	1	4/10/2024 1:53:00 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#: 24040530

Date Reported: 4/16/2024

**CLIENT:** Columbiana County Health District **Collection Date:** 4/6/2024 2:10:00 PM  
**Project:** EP  
**Lab ID:** 24040530-005 **Matrix:** DRINKING WATER  
**Client Sample ID:** PW-636

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	4/10/2024 1:53:00 PM
Naphthalene	ND	0.500		µg/L	1	4/10/2024 1:53:00 PM
o-Xylene	ND	0.500		µg/L	1	4/10/2024 1:53:00 PM
Toluene	ND	0.500		µg/L	1	4/10/2024 1:53:00 PM
Vinyl chloride	ND	0.500		µg/L	1	4/10/2024 1:53:00 PM
Surr: 1,2-Dichlorobenzene-d4	98.9	70 - 130		%Rec	1	4/10/2024 1:53:00 PM
Surr: 4-Bromofluorobenzene	97.1	70 - 130		%Rec	1	4/10/2024 1:53:00 PM

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

**SW8260**

Analyst: ZDA

2-Ethylhexyl acrylate	ND	5.00		µg/L	1	4/9/2024 3:06:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	4/9/2024 3:06:00 PM
Surr: 4-Bromofluorobenzene	101	70 - 130		%Rec	1	4/9/2024 3:06:00 PM
Surr: Dibromofluoromethane	99.9	70 - 130		%Rec	1	4/9/2024 3:06:00 PM
Surr: Toluene-d8	98.3	70 - 130		%Rec	1	4/9/2024 3:06:00 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#: **24040530**

Date Reported: **4/16/2024**

**CLIENT:** Columbiana County Health District

**Collection Date:**

**Project:** EP

**Lab ID:** 24040530-006

**Matrix:** DRINKING WATER

**Client Sample ID:** Trip Blank 1

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	4/9/2024 7:48:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	4/9/2024 7:48:00 PM
Benzene	ND	0.500		µg/L	1	4/9/2024 7:48:00 PM
Ethylbenzene	ND	0.500		µg/L	1	4/9/2024 7:48:00 PM
m,p-Xylene	ND	0.500		µg/L	1	4/9/2024 7:48:00 PM
Naphthalene	ND	0.500		µg/L	1	4/9/2024 7:48:00 PM
o-Xylene	ND	0.500		µg/L	1	4/9/2024 7:48:00 PM
Toluene	ND	0.500		µg/L	1	4/9/2024 7:48:00 PM
Vinyl chloride	ND	0.500		µg/L	1	4/9/2024 7:48:00 PM
Surr: 1,2-Dichlorobenzene-d4	92.1	70 - 130		%Rec	1	4/9/2024 7:48:00 PM
Surr: 4-Bromofluorobenzene	95.5	70 - 130		%Rec	1	4/9/2024 7:48:00 PM

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

**SW8260**

Analyst: **ZDA**

2-Ethylhexyl acrylate	ND	5.00		µg/L	1	4/9/2024 3:30:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	4/9/2024 3:30:00 PM
Surr: 4-Bromofluorobenzene	101	70 - 130		%Rec	1	4/9/2024 3:30:00 PM
Surr: Dibromofluoromethane	100	70 - 130		%Rec	1	4/9/2024 3:30:00 PM
Surr: Toluene-d8	99.0	70 - 130		%Rec	1	4/9/2024 3:30:00 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#: 24040530

Date Reported: 4/16/2024

**CLIENT:** Columbiana County Health District

**Collection Date:**

**Project:** EP

**Lab ID:** 24040530-007

**Matrix:** DRINKING WATER

**Client Sample ID:** Trip Blank 2

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	4/9/2024 8:20:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	4/9/2024 8:20:00 PM
Benzene	ND	0.500		µg/L	1	4/9/2024 8:20:00 PM
Ethylbenzene	ND	0.500		µg/L	1	4/9/2024 8:20:00 PM
m,p-Xylene	ND	0.500		µg/L	1	4/9/2024 8:20:00 PM
Naphthalene	ND	0.500		µg/L	1	4/9/2024 8:20:00 PM
o-Xylene	ND	0.500		µg/L	1	4/9/2024 8:20:00 PM
Toluene	ND	0.500		µg/L	1	4/9/2024 8:20:00 PM
Vinyl chloride	ND	0.500		µg/L	1	4/9/2024 8:20:00 PM
Surr: 1,2-Dichlorobenzene-d4	91.4	70 - 130		%Rec	1	4/9/2024 8:20:00 PM
Surr: 4-Bromofluorobenzene	93.6	70 - 130		%Rec	1	4/9/2024 8:20:00 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	4/9/2024 3:54:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	4/9/2024 3:54:00 PM
Surr: 4-Bromofluorobenzene	106	70 - 130		%Rec	1	4/9/2024 3:54:00 PM
Surr: Dibromofluoromethane	101	70 - 130		%Rec	1	4/9/2024 3:54:00 PM
Surr: Toluene-d8	97.6	70 - 130		%Rec	1	4/9/2024 3:54:00 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#: 24040530

Date Reported: 4/16/2024

**CLIENT:** Columbiana County Health District

**Collection Date:**

**Project:** EP

**Lab ID:** 24040530-008

**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	4/9/2024 8:52:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	4/9/2024 8:52:00 PM
Benzene	ND	0.500		µg/L	1	4/9/2024 8:52:00 PM
Ethylbenzene	ND	0.500		µg/L	1	4/9/2024 8:52:00 PM
m,p-Xylene	ND	0.500		µg/L	1	4/9/2024 8:52:00 PM
Naphthalene	ND	0.500		µg/L	1	4/9/2024 8:52:00 PM
o-Xylene	ND	0.500		µg/L	1	4/9/2024 8:52:00 PM
Toluene	ND	0.500		µg/L	1	4/9/2024 8:52:00 PM
Vinyl chloride	ND	0.500		µg/L	1	4/9/2024 8:52:00 PM
Surr: 1,2-Dichlorobenzene-d4	92.3	70 - 130		%Rec	1	4/9/2024 8:52:00 PM
Surr: 4-Bromofluorobenzene	92.5	70 - 130		%Rec	1	4/9/2024 8:52:00 PM

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

**SW8260**

Analyst: ZDA

2-Ethylhexyl acrylate	ND	5.00		µg/L	1	4/9/2024 4:18:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	4/9/2024 4:18:00 PM
Surr: 4-Bromofluorobenzene	101	70 - 130		%Rec	1	4/9/2024 4:18:00 PM
Surr: Dibromofluoromethane	96.5	70 - 130		%Rec	1	4/9/2024 4:18:00 PM
Surr: Toluene-d8	98.0	70 - 130		%Rec	1	4/9/2024 4:18:00 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#: 24040530

16-Apr-24

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

**BatchID:** 74527

Sample ID: <b>MB-74527</b>	SampType: <b>MBLK</b>	TestCode: <b>SVOC-MSTR</b>	Units: <b>µg/L</b>	Prep Date: <b>4/11/2024</b>	RunNo: <b>183700</b>						
Client ID: <b>PBW</b>	Batch ID: <b>74527</b>	TestNo: <b>SW8270</b>	<b>SW3510C</b>	Analysis Date: <b>4/12/2024</b>	SeqNo: <b>4981158</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	0.0210		0.05000		41.9	10	130				
Surr: Phenol-d6	0.0134		0.05000		26.7	10	130				
Surr: Nitrobenzene-d5	0.0343		0.05000		68.7	10	130				
Surr: 2,4,6-Tribromophenol	0.0437		0.05000		87.4	19	151				
Surr: 2-Fluorobiphenyl	0.0376		0.05000		75.1	10	130				
Surr: p-Terphenyl-d14	0.0476		0.05000		95.2	20	181				

Sample ID: <b>LCS-74527</b>	SampType: <b>LCS</b>	TestCode: <b>SVOC-MSTR</b>	Units: <b>µg/L</b>	Prep Date: <b>4/11/2024</b>	RunNo: <b>183700</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>74527</b>	TestNo: <b>SW8270</b>	<b>SW3510C</b>	Analysis Date: <b>4/12/2024</b>	SeqNo: <b>4981159</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	38.8	5.00	40.0	0	97.1	33	130				
2-Methylnaphthalene	41.2	5.00	40.0	0	103	32	130				
Acenaphthene	39.9	5.00	40.0	0	99.8	44	130				
Fluoranthene	46.9	5.00	40.0	0	117	63	130				
Surr: 2-Fluorophenol	0.0276		0.05000		55.1	10	130				
Surr: Phenol-d6	0.0196		0.05000		39.3	10	130				
Surr: Nitrobenzene-d5	0.0422		0.05000		84.4	10	130				
Surr: 2,4,6-Tribromophenol	0.0519		0.05000		104	19	151				

**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#: 24040530

16-Apr-24

**Client:** Columbiana County Health District

**Project:** EP

**BatchID:** 74527

Sample ID: <b>LCS-74527</b>	SampType: <b>LCS</b>	TestCode: <b>SVOC-MSTR</b>	Units: <b>µg/L</b>	Prep Date: <b>4/11/2024</b>	RunNo: <b>183700</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>74527</b>	TestNo: <b>SW8270</b>	<b>SW3510C</b>	Analysis Date: <b>4/12/2024</b>	SeqNo: <b>4981159</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 2-Fluorobiphenyl	0.0456		0.05000		91.2	10	130				
Surr: p-Terphenyl-d14	0.0463		0.05000		92.6	20	181				

Sample ID: <b>LCSD-74527</b>	SampType: <b>LCSD</b>	TestCode: <b>SVOC-MSTR</b>	Units: <b>µg/L</b>	Prep Date: <b>4/11/2024</b>	RunNo: <b>183700</b>						
Client ID: <b>LCSS02</b>	Batch ID: <b>74527</b>	TestNo: <b>SW8270</b>	<b>SW3510C</b>	Analysis Date: <b>4/12/2024</b>	SeqNo: <b>4981160</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	33.6	5.00	40.0	0	84.0	33	130	38.8	14.5	30	
2-Methylnaphthalene	36.0	5.00	40.0	0	90.0	32	130	41.2	13.4	30	
Acenaphthene	38.0	5.00	40.0	0	95.1	44	130	39.9	4.82	30	
Fluoranthene	46.7	5.00	40.0	0	117	63	130	46.9	0.363	30	
Surr: 2-Fluorophenol	0.0203		0.05000		40.7	10	130		0		
Surr: Phenol-d6	0.0152		0.05000		30.5	10	130		0		
Surr: Nitrobenzene-d5	0.0352		0.05000		70.5	10	130		0		
Surr: 2,4,6-Tribromophenol	0.0522		0.05000		104	19	151		0		
Surr: 2-Fluorobiphenyl	0.0403		0.05000		80.7	10	130		0		
Surr: p-Terphenyl-d14	0.0467		0.05000		93.4	20	181		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#: 24040530

16-Apr-24

**Client:** Columbiana County Health District

**Project:** EP

**BatchID:** 74531

Sample ID: <b>MB-74531</b>	SampType: <b>MBLK</b>	TestCode: <b>SVOC_DW(52</b> Units: <b>µg/L</b>	Prep Date: <b>4/11/2024</b>	RunNo: <b>183711</b>							
Client ID: <b>PBW</b>	Batch ID: <b>74531</b>	TestNo: <b>E525 525</b>	Analysis Date: <b>4/14/2024</b>	SeqNo: <b>4981340</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	3.95		5.000		79.0	70	130				
Surr: Benzo(a)pyrene-d12	4.08		5.000		81.6	70	130				
Surr: Triphenyl phosphate	5.21		5.000		104	70	130				

Sample ID: <b>LCS-74531</b>	SampType: <b>LCS</b>	TestCode: <b>SVOC_DW(52</b> Units: <b>µg/L</b>	Prep Date: <b>4/11/2024</b>	RunNo: <b>183711</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>74531</b>	TestNo: <b>E525 525</b>	Analysis Date: <b>4/14/2024</b>	SeqNo: <b>4981342</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthylene	3.88	0.100	5.000	0	77.6	70	130				MB+
Anthracene	3.57	0.100	5.000	0	71.4	70	130				
Benz(a)anthracene	4.50	0.100	5.000	0	90.0	70	130				
Benzo(a)pyrene	4.04	0.100	5.000	0	80.8	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#: 24040530

16-Apr-24

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

**BatchID:** 74531

Sample ID: <b>LCS-74531</b>	SampType: <b>LCS</b>	TestCode: <b>SVOC_DW(52</b> Units: <b>µg/L</b>	Prep Date: <b>4/11/2024</b>	RunNo: <b>183711</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>74531</b>	TestNo: <b>E525 525</b>	Analysis Date: <b>4/14/2024</b>	SeqNo: <b>4981342</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(b)fluoranthene	4.19	0.100	5.000	0	83.8	70	130				
Benzo(g,h,i)perylene	4.26	0.100	5.000	0	85.2	70	130				
Benzo(k)fluoranthene	4.37	0.100	5.000	0	87.4	70	130				
Chrysene	4.46	0.100	5.000	0	89.2	70	130				
Dibenz(a,h)anthracene	4.21	0.100	5.000	0	84.2	70	130				
Fluorene	4.33	0.100	5.000	0	86.6	70	130				
Indeno(1,2,3-cd)pyrene	3.84	1.00	5.000	0	76.8	70	130				
Phenanthrene	4.01	0.100	5.000	0	80.2	70	130				
Pyrene	3.76	0.100	5.000	0	75.2	70	130				
Surr: 1,3-Dimethyl-2-nitrobenz...	4.48		5.000		89.6	70	130				
Surr: Benzo(a)pyrene-d12	3.94		5.000		78.8	70	130				
Surr: Triphenyl phosphate	4.66		5.000		93.2	70	130				

Sample ID: <b>24040475-004AMS</b>	SampType: <b>MS</b>	TestCode: <b>SVOC_DW(52</b> Units: <b>µg/L</b>	Prep Date: <b>4/11/2024</b>	RunNo: <b>183711</b>							
Client ID: <b>BatchQC</b>	Batch ID: <b>74531</b>	TestNo: <b>E525 525</b>	Analysis Date: <b>4/14/2024</b>	SeqNo: <b>4981347</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthylene	4.00	0.0971	4.854	0	82.4	70	130				MB+
Anthracene	3.68	0.0971	4.854	0	75.8	70	130				
Benz(a)anthracene	4.66	0.0971	4.854	0	96.0	70	130				
Benzo(a)pyrene	4.16	0.0971	4.854	0	85.6	70	130				
Benzo(b)fluoranthene	4.34	0.0971	4.854	0	89.4	70	130				
Benzo(g,h,i)perylene	4.39	0.0971	4.854	0	90.4	70	130				
Benzo(k)fluoranthene	4.42	0.0971	4.854	0	91.0	70	130				
Chrysene	4.50	0.0971	4.854	0	92.8	70	130				

**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      | S  | Spike Recovery outside accepted recovery limits    |
| W | Sample container temperature is out of limit as specified at testcode |    |                                |    |  |



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# QC SUMMARY REPORT

WO#: 24040530

16-Apr-24

**Client:** Columbiana County Health District

**Project:** EP

**BatchID:** 74531

Sample ID: <b>24040475-004AMS</b>	SampType: <b>MS</b>	TestCode: <b>SVOC_DW(52</b>	Units: <b>µg/L</b>	Prep Date: <b>4/11/2024</b>	RunNo: <b>183711</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>74531</b>	TestNo: <b>E525</b>	<b>525</b>	Analysis Date: <b>4/14/2024</b>	SeqNo: <b>4981347</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dibenz(a,h)anthracene	4.35	0.0971	4.854	0	89.6	70	130				
Fluorene	4.56	0.0971	4.854	0	94.0	70	130				
Indeno(1,2,3-cd)pyrene	4.03	0.971	4.854	0	83.0	70	130				
Phenanthrene	4.08	0.0971	4.854	0	84.0	70	130				
Pyrene	3.84	0.0971	4.854	0	79.2	70	130				
Surr: 1,3-Dimethyl-2-nitrobe...	4.53		4.854		93.4	70	130				
Surr: Benzo(a)pyrene-d12	4.76		4.854		98.0	70	130				
Surr: Triphenyl phosphate	5.31		4.854		109	70	130				

Sample ID: <b>24040475-004AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>SVOC_DW(52</b>	Units: <b>µg/L</b>	Prep Date: <b>4/11/2024</b>	RunNo: <b>183711</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>74531</b>	TestNo: <b>E525</b>	<b>525</b>	Analysis Date: <b>4/14/2024</b>	SeqNo: <b>4981348</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthylene	3.78	0.0980	4.902	0	77.2	70	130	4.000	5.54	30	MB+
Anthracene	3.54	0.0980	4.902	0	72.2	70	130	3.680	3.89	30	
Benz(a)anthracene	4.56	0.0980	4.902	0	93.0	70	130	4.660	2.20	30	
Benzo(a)pyrene	4.03	0.0980	4.902	0	82.2	70	130	4.155	3.08	30	
Benzo(b)fluoranthene	4.23	0.0980	4.902	0	86.2	70	130	4.340	2.67	30	
Benzo(g,h,i)perylene	4.20	0.0980	4.902	0	85.6	70	130	4.388	4.48	30	
Benzo(k)fluoranthene	4.25	0.0980	4.902	0	86.6	70	130	4.417	3.98	30	
Chrysene	4.39	0.0980	4.902	0	89.6	70	130	4.505	2.53	30	
Dibenz(a,h)anthracene	4.21	0.0980	4.902	0	85.8	70	130	4.350	3.36	30	
Fluorene	4.35	0.0980	4.902	0	88.8	70	130	4.563	4.71	30	
Indeno(1,2,3-cd)pyrene	3.85	0.980	4.902	0	78.6	70	130	4.029	4.47	30	
Phenanthrene	3.95	0.0980	4.902	0	80.6	70	130	4.078	3.16	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 exceeds  
 PL Permit Limit  
 S Spike Recovery outside accepted recovery limits



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# QC SUMMARY REPORT

WO#: **24040530**  
**16-Apr-24**

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

**BatchID:** 74531

Sample ID: <b>24040475-004AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>SVOC_DW(52)</b>	Units: <b>µg/L</b>	Prep Date: <b>4/11/2024</b>	RunNo: <b>183711</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>74531</b>	TestNo: <b>E525</b>	<b>525</b>	Analysis Date: <b>4/14/2024</b>	SeqNo: <b>4981348</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Pyrene	3.74	0.0980	4.902	0	76.2	70	130	3.845	2.89	30	
Surr: 1,3-Dimethyl-2-nitrobenz...	4.26		4.902		87.0	70	130		0	0	
Surr: Benzo(a)pyrene-d12	4.63		4.902		94.4	70	130		0	0	
Surr: Triphenyl phosphate	5.01		4.902		102	70	130		0	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 exceeded  
 PL Permit Limit  
 S Spike Recovery outside accepted recovery limits



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# QC SUMMARY REPORT

WO#: 24040530

16-Apr-24

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

**BatchID:** R183491

Sample ID: <b>LCS-R183491</b>	SampType: <b>LCS</b>	TestCode: <b>VOC-MSTR_</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>183491</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>R183491</b>	TestNo: <b>SW8260</b>	Analysis Date: <b>4/9/2024</b>	SeqNo: <b>4975115</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Ethylhexyl acrylate	19.1	5.00	20.00	0	95.5	70	130				
n-Butyl acrylate	20.4	5.00	20.00	0	102	70	130				
Surr: 4-Bromofluorobenzene	51.8		50.00		104	70	130				
Surr: Dibromofluoromethane	50.4		50.00		101	70	130				
Surr: Toluene-d8	49.6		50.00		99.1	70	130				

Sample ID: <b>MB-R183491</b>	SampType: <b>MBLK</b>	TestCode: <b>VOC-MSTR_</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>183491</b>						
Client ID: <b>PBW</b>	Batch ID: <b>R183491</b>	TestNo: <b>SW8260</b>	Analysis Date: <b>4/9/2024</b>	SeqNo: <b>4975118</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	50.5		50.00		101	70	130				
Surr: Dibromofluoromethane	49.8		50.00		99.5	70	130				
Surr: Toluene-d8	48.9		50.00		97.8	70	130				

Sample ID: <b>24040530-001DMS</b>	SampType: <b>MS</b>	TestCode: <b>VOC-MSTR_</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>183491</b>						
Client ID: <b>PW-665</b>	Batch ID: <b>R183491</b>	TestNo: <b>SW8260</b>	Analysis Date: <b>4/9/2024</b>	SeqNo: <b>4975120</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Ethylhexyl acrylate	22.9	5.00	20.00	0	114	70	130				
n-Butyl acrylate	26.4	5.00	20.00	0	132	70	130				S
Surr: 4-Bromofluorobenzene	50.3		50.00		101	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#: **24040530**

**16-Apr-24**

**Client:** Columbiana County Health District

**Project:** EP

**BatchID:** R183491

Sample ID: <b>24040530-001DMS</b>	SampType: <b>MS</b>	TestCode: <b>VOC-MSTR_</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>183491</b>						
Client ID: <b>PW-665</b>	Batch ID: <b>R183491</b>	TestNo: <b>SW8260</b>	Analysis Date: <b>4/9/2024</b>	SeqNo: <b>4975120</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	48.6		50.00		97.2	70	130				
Surr: Toluene-d8	49.6		50.00		99.2	46.1	154				

Sample ID: <b>24040530-001DMSD</b>	SampType: <b>MSD</b>	TestCode: <b>VOC-MSTR_</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>183491</b>						
Client ID: <b>PW-665</b>	Batch ID: <b>R183491</b>	TestNo: <b>SW8260</b>	Analysis Date: <b>4/9/2024</b>	SeqNo: <b>4975121</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Ethylhexyl acrylate	18.9	5.00	20.00	0	94.4	70	130	22.86	19.1	20	
n-Butyl acrylate	22.2	5.00	20.00	0	111	70	130	26.40	17.1	20	
Surr: 4-Bromofluorobenzene	52.9		50.00		106	70	130		0	20	
Surr: Dibromofluoromethane	49.1		50.00		98.1	70	130		0	20	
Surr: Toluene-d8	49.9		50.00		99.8	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#: 24040530

16-Apr-24

**Client:** Columbiana County Health District

**Project:** EP

**BatchID:** R183513

Sample ID: <b>LCS-R183513</b>	SampType: <b>LCS</b>	TestCode: <b>VOC_DW(524</b> Units: <b>µg/L</b>	Prep Date:	RunNo: <b>183513</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>R183513</b>	TestNo: <b>E524.2</b>	Analysis Date: <b>4/9/2024</b>	SeqNo: <b>4975896</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloropropene	4.97	0.500	5.000	0	99.4	70	130				
1,2,4-Trimethylbenzene	4.79	0.500	5.000	0	95.7	70	130				
Benzene	4.79	0.500	5.000	0	95.8	70	130				
Ethylbenzene	4.83	0.500	5.000	0	96.6	70	130				
m,p-Xylene	9.64	0.500	10.00	0	96.4	70	130				
Naphthalene	4.65	0.500	5.000	0	92.9	70	130				
o-Xylene	4.96	0.500	5.000	0	99.3	70	130				
Toluene	4.73	0.500	5.000	0	94.6	70	130				
Vinyl chloride	4.36	0.500	5.000	0	87.2	70	130				
Surr: 1,2-Dichlorobenzene-d4	10.6		10.00		106	70	130				
Surr: 4-Bromofluorobenzene	10.4		10.00		104	70	130				

Sample ID: <b>MB-R183513</b>	SampType: <b>MBLK</b>	TestCode: <b>VOC_DW(524</b> Units: <b>µg/L</b>	Prep Date:	RunNo: <b>183513</b>							
Client ID: <b>PBW</b>	Batch ID: <b>R183513</b>	TestNo: <b>E524.2</b>	Analysis Date: <b>4/9/2024</b>	SeqNo: <b>4975898</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:**  
 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#: 24040530

16-Apr-24

**Client:** Columbiana County Health District

**Project:** EP

**BatchID:** R183513

Sample ID: <b>MB-R183513</b>	SampType: <b>MBLK</b>	TestCode: <b>VOC_DW(524)</b> Units: <b>µg/L</b>	Prep Date:	RunNo: <b>183513</b>							
Client ID: <b>PBW</b>	Batch ID: <b>R183513</b>	TestNo: <b>E524.2</b>	Analysis Date: <b>4/9/2024</b>	SeqNo: <b>4975898</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 1,2-Dichlorobenzene-d4	8.99		10.00		89.9	70	130				
Surr: 4-Bromofluorobenzene	9.23		10.00		92.3	70	130				

Sample ID: <b>24040529-001CDUP</b>	SampType: <b>DUP</b>	TestCode: <b>VOC_DW(524)</b> Units: <b>µg/L</b>	Prep Date:	RunNo: <b>183513</b>							
Client ID: <b>BatchQC</b>	Batch ID: <b>R183513</b>	TestNo: <b>E524.2</b>	Analysis Date: <b>4/9/2024</b>	SeqNo: <b>4975900</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	9.55		10.00		95.5	70	130		0	20	
Surr: 4-Bromofluorobenzene	9.82		10.00		98.2	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



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# QC SUMMARY REPORT

WO#: 24040530

16-Apr-24

**Client:** Columbiana County Health District

**Project:** EP

**BatchID:** R183531

Sample ID: <b>LCS-R183531</b>	SampType: <b>LCS</b>	TestCode: <b>VOC_DW(524)</b> Units: <b>µg/L</b>	Prep Date:	RunNo: <b>183531</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>R183531</b>	TestNo: <b>E524.2</b>	Analysis Date: <b>4/10/2024</b>	SeqNo: <b>4976494</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloropropene	4.83	0.500	5.000	0	96.6	70	130				
1,2,4-Trimethylbenzene	4.64	0.500	5.000	0	92.9	70	130				
Benzene	4.75	0.500	5.000	0	95.0	70	130				
Ethylbenzene	4.71	0.500	5.000	0	94.2	70	130				
m,p-Xylene	9.49	0.500	10.00	0	94.9	70	130				
Naphthalene	4.63	0.500	5.000	0	92.6	70	130				
o-Xylene	4.77	0.500	5.000	0	95.4	70	130				
Toluene	4.63	0.500	5.000	0	92.6	70	130				
Vinyl chloride	4.00	0.500	5.000	0	79.9	70	130				
Surr: 1,2-Dichlorobenzene-d4	10.0		10.00		100	70	130				
Surr: 4-Bromofluorobenzene	9.92		10.00		99.2	70	130				

Sample ID: <b>MB-R183531</b>	SampType: <b>MBLK</b>	TestCode: <b>VOC_DW(524)</b> Units: <b>µg/L</b>	Prep Date:	RunNo: <b>183531</b>							
Client ID: <b>PBW</b>	Batch ID: <b>R183531</b>	TestNo: <b>E524.2</b>	Analysis Date: <b>4/10/2024</b>	SeqNo: <b>4976496</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:**  
 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#: **24040530**

**16-Apr-24**

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

**BatchID:** R183531

Sample ID: <b>MB-R183531</b>	SampType: <b>MBLK</b>	TestCode: <b>VOC_DW(524)</b> Units: <b>µg/L</b>	Prep Date:	RunNo: <b>183531</b>							
Client ID: <b>PBW</b>	Batch ID: <b>R183531</b>	TestNo: <b>E524.2</b>	Analysis Date: <b>4/10/2024</b>	SeqNo: <b>4976496</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 1,2-Dichlorobenzene-d4	9.04		10.00		90.4	70	130				
Surr: 4-Bromofluorobenzene	9.14		10.00		91.4	70	130				

Sample ID: <b>24040530-005CDUP</b>	SampType: <b>DUP</b>	TestCode: <b>VOC_DW(524)</b> Units: <b>µg/L</b>	Prep Date:	RunNo: <b>183531</b>							
Client ID: <b>PW-636</b>	Batch ID: <b>R183531</b>	TestNo: <b>E524.2</b>	Analysis Date: <b>4/10/2024</b>	SeqNo: <b>4976499</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	9.57		10.00		95.7	70	130		0	20	
Surr: 4-Bromofluorobenzene	9.56		10.00		95.6	70	130		0	20	

Sample ID: <b>24040694-001CMS</b>	SampType: <b>MS</b>	TestCode: <b>VOC_DW(524)</b> Units: <b>µg/L</b>	Prep Date:	RunNo: <b>183531</b>							
Client ID: <b>BatchQC</b>	Batch ID: <b>R183531</b>	TestNo: <b>E524.2</b>	Analysis Date: <b>4/10/2024</b>	SeqNo: <b>4976787</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

**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#: 24040530

16-Apr-24

**Client:** Columbiana County Health District

**Project:** EP

**BatchID:** R183531

Sample ID: <b>24040694-001CMS</b>	SampType: <b>MS</b>	TestCode: <b>VOC_DW(524)</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>183531</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>R183531</b>	TestNo: <b>E524.2</b>	Analysis Date: <b>4/10/2024</b>	SeqNo: <b>4976787</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloropropene	5.56	0.500	5.000	0	111	70	130				
1,2,4-Trimethylbenzene	4.90	0.500	5.000	0	98.1	70	130				
Benzene	5.30	0.500	5.000	0	106	70	130				
Ethylbenzene	5.13	0.500	5.000	0	103	70	130				
m,p-Xylene	10.6	0.500	10.00	0	106	70	130				
Naphthalene	4.52	0.500	5.000	0	90.4	70	130				
o-Xylene	5.29	0.500	5.000	0	106	70	130				
Toluene	5.02	0.500	5.000	0	100	70	130				
Vinyl chloride	4.59	0.500	5.000	0	91.8	70	130				
Surr: 1,2-Dichlorobenzene-d4	10.2		10.00		102	70	130				
Surr: 4-Bromofluorobenzene	10.2		10.00		102	70	130				

Sample ID: <b>24040694-001CMSD</b>	SampType: <b>MSD</b>	TestCode: <b>VOC_DW(524)</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>183531</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>R183531</b>	TestNo: <b>E524.2</b>	Analysis Date: <b>4/10/2024</b>	SeqNo: <b>4976788</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloropropene	5.69	0.500	5.000	0	114	70	130	5.560	2.31	25	
1,2,4-Trimethylbenzene	5.20	0.500	5.000	0	104	70	130	4.905	5.82	25	
Benzene	5.42	0.500	5.000	0	108	70	130	5.301	2.22	25	
Ethylbenzene	5.38	0.500	5.000	0	108	70	130	5.129	4.74	25	
m,p-Xylene	11.0	0.500	10.00	0	110	70	130	10.56	3.67	25	
Naphthalene	4.91	0.500	5.000	0	98.2	70	130	4.522	8.25	25	
o-Xylene	5.45	0.500	5.000	0	109	70	130	5.288	3.05	25	
Toluene	5.15	0.500	5.000	0	103	70	130	5.018	2.67	25	
Vinyl chloride	4.64	0.500	5.000	0	92.8	70	130	4.588	1.13	25	

**Qualifiers:**

- |   |   |    |                                |    |   |
|---|---|----|--------------------------------|----|---|
| B | Analyte detected in the associated Method Blank                       | E  | Value above quantitation range | H  | Holding times for preparation or analysis exceeds |
| M | Manual Integration used to determine area response                    | ND | Not Detected                   | PL | Permit Limit                                      |
| R | RPD outside accepted recovery limits                                  | RL | Reporting Detection Limit      | S  | Spike Recovery outside accepted recovery limits   |
| W | Sample container temperature is out of limit as specified at testcode |    |                                |    |   |



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# QC SUMMARY REPORT

WO#: **24040530**  
**16-Apr-24**

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

**BatchID:** R183531

Sample ID: <b>24040694-001CMSD</b>	SampType: <b>MSD</b>	TestCode: <b>VOC_DW(524)</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>183531</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>R183531</b>	TestNo: <b>E524.2</b>	Analysis Date: <b>4/10/2024</b>	SeqNo: <b>4976788</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 1,2-Dichlorobenzene-d4	10.6		10.00		106	70	130		0	25	
Surr: 4-Bromofluorobenzene	10.2		10.00		102	70	130		0	25	

**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.**





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

# DATES REPORT

WO#: **24040530**  
**16-Apr-24**

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

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
24040530-001A	PW-665	4/6/2024 10:50:00 AM	Drinking Water	Synthetic Organic Compounds by GC/ (EPA 525.3)		4/11/2024 9:45:00 AM	4/15/2024 5:33:00 AM
24040530-001B				SVOC by 8270E		4/11/2024 12:30:00 PM	4/13/2024 1:23:00 AM
24040530-001C				VOC-GC/MS (524.2)			4/9/2024 9:24:00 PM
24040530-001D				VOC by GC/MS (8260D)			4/9/2024 12:17:00 PM
24040530-002A	dupe	4/6/2024		Synthetic Organic Compounds by GC/ (EPA 525.3)		4/11/2024 9:45:00 AM	4/15/2024 6:06:00 AM
24040530-002B				SVOC by 8270E		4/11/2024 12:30:00 PM	4/13/2024 1:54:00 AM
24040530-002C				VOC-GC/MS (524.2)			4/9/2024 9:56:00 PM
24040530-002D				VOC by GC/MS (8260D)			4/9/2024 1:53:00 PM
24040530-003A	PW-670	4/6/2024 10:00:00 AM		Synthetic Organic Compounds by GC/ (EPA 525.3)		4/11/2024 9:45:00 AM	4/15/2024 6:39:00 AM
24040530-003B				SVOC by 8270E		4/11/2024 12:30:00 PM	4/13/2024 2:26:00 AM
24040530-003C				VOC-GC/MS (524.2)			4/9/2024 10:28:00 PM
24040530-003D				VOC by GC/MS (8260D)			4/9/2024 2:17:00 PM
24040530-004A	PW-670 FB	4/6/2024 9:15:00 AM		Synthetic Organic Compounds by GC/ (EPA 525.3)		4/11/2024 9:45:00 AM	4/15/2024 7:12:00 AM
24040530-004B				SVOC by 8270E		4/11/2024 12:30:00 PM	4/13/2024 2:57:00 AM
24040530-004C				VOC-GC/MS (524.2)			4/10/2024 1:21:00 PM
				VOC-GC/MS (524.2)			4/9/2024 11:00:00 PM
24040530-004D				VOC by GC/MS (8260D)			4/9/2024 2:42:00 PM
24040530-005A	PW-636	4/6/2024 2:10:00 PM		Synthetic Organic Compounds by GC/ (EPA 525.3)		4/11/2024 9:45:00 AM	4/15/2024 7:45:00 AM
24040530-005B				SVOC by 8270E		4/11/2024 12:30:00 PM	4/13/2024 3:29:00 AM
24040530-005C				VOC-GC/MS (524.2)			4/9/2024 11:32:00 PM
				VOC-GC/MS (524.2)			4/10/2024 1:53:00 PM

Original



# DATES REPORT

WO#: **24040530**  
**16-Apr-24**

**Client:** Columbiana County Health District

**Project:** EP

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
24040530-005D	PW-636	4/6/2024 2:10:00 PM	Drinking Water	VOC by GC/MS (8260D)			4/9/2024 3:06:00 PM
24040530-006A	Trip Blank 1			VOC-GC/MS (524.2)			4/9/2024 7:48:00 PM
24040530-006B				VOC by GC/MS (8260D)			4/9/2024 3:30:00 PM
24040530-007A	Trip Blank 2			VOC-GC/MS (524.2)			4/9/2024 8:20:00 PM
24040530-007B				VOC by GC/MS (8260D)			4/9/2024 3:54:00 PM
24040530-008A	Trip Blank 3			VOC-GC/MS (524.2)			4/9/2024 8:52:00 PM
24040530-008B				VOC by GC/MS (8260D)			4/9/2024 4:18:00 PM

Original



Analysis Request / Chain of Custody

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SET  
WO  
NO  
**24040530**  
For Summit Environmental Technologies, Inc. use only

Client Name <b>CC HD</b>		Project Identification <b>FP</b>		Analytical Parameters and Methods Requested											
Client Phone <b>330-424-0272</b>		Report to <b>CC HD</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-1065</b>		Facility ID											
Printed By (Print Name and Provide Signature) <b>Alexis Lauton</b>		Reporting/Accreditation Requirements:		Number of Containers per Sample											
Sign: <b>[Signature]</b>		<input type="checkbox"/> Ohio VAP <input type="checkbox"/> Ohio EPA Pb, Cu <input type="checkbox"/> Drinking Water Compliance <input type="checkbox"/> Other Compliance (List State/ Program):		524 8270 525.2 0928											
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	8270	525.2	0928	For DW Only: Special Compliance or Routine (S/R)	
	PW 1065	pressure tank	4/8/24	10:50 AM	✓		DW	8	10	X	X	X	X		
Relinquished by:			Date	Time	Received by:			Date	Time	Notes / Comments:					
[Signature]			4/8/24	8:45 AM	[Signature]			4/8/24	8:45	524-HCl, 8260-HCl, 525.2-unknown					
[Signature]			4/8/24	12:14						3.4-012 CS intact - 4/8/24					
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) Must be approved by Lab Manager		Received Temp.: <b>3.2 °C</b>		Other Container: Ice Present? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> MELTED			
[Signature]			APR 08 2024	12 15	SET										



### Analysis Request / Chain of Custody

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SET WO NO.:	For Summit Environmental Technologies, Inc. use only
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Client Name: <u>CC HD</u>		Project Identification: <u>FP</u>			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: <u>330-424-0272</u>		Project ID: <u>CC HD</u>																						
Contact Person: <u>Kevin Summerville</u>		PO #	Quote Number																					
Client Email Address: <u>ksummerville@colombiana-health.org</u>		PWS ID: <u>dupe</u>	Facility ID																					
Sampled By (Print Name and Provide Signature): <u>Alexis Lauter</u>					Reporting/Accreditation Requirements:																			
Print: <u>Alexis Lauter</u>					<input type="checkbox"/> Ohio VAP <input type="checkbox"/> Ohio EPA Pb, Cu																			
Sign: <u>[Signature]</u>					<input type="checkbox"/> Drinking Water Compliance																			
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					<input type="checkbox"/> Other Compliance (List State/ Program):																			
#	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											
	<u>dupe</u>	<u>at side spigot</u>	<u>4/8/24</u>		<input checked="" type="checkbox"/>		<u>DW</u>		<u>8</u>	<u>10</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>										
Relinquished by:										Notes / Comments:														
<u>[Signature]</u>		Date:	Time:	Received by:		Date:	Time:	<u>524-HCl, 8260-HCl, 525.2-unknown</u>																
<u>[Signature]</u>		<u>4/8/24</u>	<u>8:45 AM</u>	<u>[Signature]</u>		<u>4/8/24</u>	<u>8:45</u>	<u>2.3-0.2 CS intact = 4/8/24</u>																
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:					Carrier:					Received Temp.:					Other Container:									
<u>Anthony B...</u>					<u>SET</u>					<u>2.1 °C</u>					Ice Present? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> MELTED									
Date:					Rush Requested:					Day(s):					Must be approved by Lab Manager									
<u>APR 08 2024</u>					<u>12 15</u>										<u>Page 36 of 39</u>									



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: <u>CC HD</u>		Project Identification: <u>FP</u>		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)	Analytical Parameters and Methods Requested												
Client Phone: <u>330-424-0272</u>		Report to: <u>CC HD</u>			Number of Containers per Sample 524 8278 525.2 8228												
Contact Person: <u>Kevin Summerville</u>		PO #: _____				Quote Number: _____											
Client Email Address: <u>ksummerville@columbiana-health.com</u>		PWS ID: <u>PW-670</u>				Facility ID: _____											
Sampled By (Print Name and Provide Signature): <u>Alexis Kellerton</u> Sign: <u>[Signature]</u>		Reporting/Accreditation Requirements: <input type="checkbox"/> Ohio VAP <input type="checkbox"/> Ohio EPA Pb, Cu <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	8228	For DW Only: Special Compliance or Routine (S/R)
	PW-670	outside spigot	4/8/24	10:00 AM	✓		DW	8	10	X	X	X	X	
	PW-670	field blank	4/8/24	9:15 AM	✓		L	8	10	X	X	X	X	

Relinquished by: <u>[Signature]</u>	Date: <u>4/8/24</u>	Time: <u>8:45 am</u>	Received by: <u>[Signature]</u>	Date: <u>4/8/24</u>	Time: <u>8:45</u>	Notes / Comments: <u>524-HCl, 8260-HCl, 525.2-unknown</u> <u>34-0.2, 2.1-0.2 CS intact 4/8/24</u>
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: <u>[Signature]</u>	Date: <u>APR 08 2024</u>	Time: <u>12 15</u>	Carrier: <u>SET</u>	Rush Requested: _____ Day(s)	Received Temp.: <u>3,21.9 °C</u>	Other Container: _____
				Must be approved by Lab Manager	Ice Present? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> MELTED	



Analysis Request / Chain of Custody

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SET WO NO.:	For Summit Environmental Technologies, Inc. use only
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Client Name <b>CCHD</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>CCHD</b>							524	8278	525.2	0928							
Contact Person <b>Kevin Summerville</b>		PO #																	Quote Number
Client Email Address <b>ksummerville@columbiana-health.org</b>		PWS ID <b>PW-6836</b>																	
Sampled By (Print Name and Provide Signature) <b>Alexis Linton</b>		Reporting/Accreditation Requirements:		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															
Print: <b>Alexis Linton</b>		<input type="checkbox"/> Ohio VAP <input type="checkbox"/> Ohio EPA Pb, Cu			For DW Only: Special Compliance or Routine (SIR)														
Sign: <b>[Signature]</b>		<input type="checkbox"/> Drinking Water Compliance <input type="checkbox"/> Other Compliance (List State/ Program):																	
#	Sample Point ID	Sample Identification	Date Collected	Time Collected	Grab Sample	Composite Sample	Matrix	Preservation	Number of Containers per Sample	524	8278	525.2	0928						
	<b>8260</b>	<b>Pressure tank</b>	<b>4/8/24</b>	<b>8:10 AM</b>	<input checked="" type="checkbox"/>		<b>DW</b>		<b>8</b>	<b>10</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					
Relinquished by:		Date	Time	Received by:		Date	Time	Notes / Comments:											
<b>[Signature]</b>		<b>4/8/24</b>	<b>8:45 AM</b>	<b>[Signature]</b>		<b>4/8/24</b>	<b>8:45</b>	<b>524-HCl, 8260-HCl, 525.2-unknown</b>											
<b>[Signature]</b>		<b>4/8/24</b>	<b>12:14</b>					<b>2.3-0.2 CS intact - 4/8/24</b>											
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.: <b>2.1 °C</b>		Other Container:									
<b>[Signature]</b>		<b>APR 08 2024</b>	<b>12 15</b>	<b>SET</b>		<b>Must be approved by Lab Manager</b>				Ice Present? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> MELTED									



Summit Environmental Technologies, Inc.  
 3310 Win St.  
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 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: 24040530      RcptNo: 1

Logged by:	Anthony W. Britton	4/8/2024 12:15:00 PM	
Completed By:	Anthony W. Britton	4/8/2024 4:52:03 PM	
Reviewed By:	Salwa A. Najjar	4/8/2024 5:22:10 PM	

### 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: 4/8/2024      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:

### Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.2	Good	Yes	N/A	4/8/2024	
2	2.1	Good	Yes	N/A	4/8/2024	
3	1.9	Good	Yes	N/A	4/8/2024	