



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

July 30, 2024

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

Order No.: 24071589

Dear Kevin Summerville:

Summit Environmental Technologies, Inc. received 7 sample(s) on 7/22/2024 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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 Cuyahoga Falls, Ohio 44223
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Workorder
Sample Summary
 WO#: **24071589**
30-Jul-24

CLIENT: Columbiana County Health District
Project: EP

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
24071589-001	PW-824 Field Blank		7/19/2024 9:25:00 AM	7/22/2024 10:55:00 AM	Drinking Water
24071589-001	PW-824 Field Blank		7/19/2024 9:25:00 AM	7/22/2024 10:55:00 AM	Drinking Water
24071589-001	PW-824 Field Blank		7/19/2024 9:25:00 AM	7/22/2024 10:55:00 AM	Drinking Water
24071589-001	PW-824 Field Blank		7/19/2024 9:25:00 AM	7/22/2024 10:55:00 AM	Drinking Water
24071589-002	PW-824		7/19/2024 9:45:00 AM	7/22/2024 10:55:00 AM	Drinking Water
24071589-002	PW-824		7/19/2024 9:45:00 AM	7/22/2024 10:55:00 AM	Drinking Water
24071589-002	PW-824		7/19/2024 9:45:00 AM	7/22/2024 10:55:00 AM	Drinking Water
24071589-002	PW-824		7/19/2024 9:45:00 AM	7/22/2024 10:55:00 AM	Drinking Water
24071589-003	PW-320		7/19/2024 10:45:00 AM	7/22/2024 10:55:00 AM	Drinking Water
24071589-003	PW-320		7/19/2024 10:45:00 AM	7/22/2024 10:55:00 AM	Drinking Water
24071589-003	PW-320		7/19/2024 10:45:00 AM	7/22/2024 10:55:00 AM	Drinking Water
24071589-003	PW-320		7/19/2024 10:45:00 AM	7/22/2024 10:55:00 AM	Drinking Water
24071589-004	Dup		7/19/2024	7/22/2024 10:55:00 AM	Drinking Water
24071589-004	Dup		7/19/2024	7/22/2024 10:55:00 AM	Drinking Water
24071589-004	Dup		7/19/2024	7/22/2024 10:55:00 AM	Drinking Water
24071589-004	Dup		7/19/2024	7/22/2024 10:55:00 AM	Drinking Water
24071589-005	PW-482		7/19/2024 2:35:00 PM	7/22/2024 10:55:00 AM	Drinking Water
24071589-005	PW-482		7/19/2024 2:35:00 PM	7/22/2024 10:55:00 AM	Drinking Water
24071589-005	PW-482		7/19/2024 2:35:00 PM	7/22/2024 10:55:00 AM	Drinking Water
24071589-005	PW-482		7/19/2024 2:35:00 PM	7/22/2024 10:55:00 AM	Drinking Water
24071589-006	Trip Blank 1			7/22/2024 10:55:00 AM	Drinking Water
24071589-006	Trip Blank 1			7/22/2024 10:55:00 AM	Drinking Water
24071589-007	Trip Blank 2			7/22/2024 10:55:00 AM	Drinking Water



SUMMIT
ENVIRONMENTAL TECHNOLOGIES, INC
Analytical Laboratories

Summit Environmental Technologies, Inc.
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Workorder Sample Summary

WO#: **24071589**
30-Jul-24

CLIENT: Columbiana County Health District
Project: EP

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
24071589-007	Trip Blank 2			7/22/2024 10:55:00 AM	Drinking Water



Case Narrative

WO#: 24071589
Date: 7/30/2024

CLIENT: Columbiana County Health District

Project: EP

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:

24071589: 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:

24071589-001, 003 SVOC_DW(525.3): Possible high bias due to high surrogate recovery, confirmed by reanalysis. Sample is ND for all analytes.

Original



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Analytical Report

(consolidated)

WO#: 24071589

Date Reported: 7/30/2024

CLIENT: Columbiana County Health District **Collection Date:** 7/19/2024 9:25:00 AM
Project: EP
Lab ID: 24071589-001 **Matrix:** DRINKING WATER
Client Sample ID: PW-824 Field Blank

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
DRINKING WATER ORGANIC COMPOUNDS (EPA 525)				E525	525	Analyst: JDB
SYNTHETIC ORGANIC COMPOUNDS BY GC/MS (EPA 525.3)						
Acenaphthylene	ND	0.0980		µg/L	1	7/25/2024 4:32:00 PM
Anthracene	ND	0.0980		µg/L	1	7/25/2024 4:32:00 PM
Benz(a)anthracene	ND	0.0980		µg/L	1	7/25/2024 4:32:00 PM
Benzo(a)pyrene	ND	0.0980		µg/L	1	7/25/2024 4:32:00 PM
Benzo(b)fluoranthene	ND	0.0980		µg/L	1	7/25/2024 4:32:00 PM
Benzo(g,h,i)perylene	ND	0.0980		µg/L	1	7/25/2024 4:32:00 PM
Benzo(k)fluoranthene	ND	0.0980		µg/L	1	7/25/2024 4:32:00 PM
Chrysene	ND	0.0980		µg/L	1	7/25/2024 4:32:00 PM
Dibenz(a,h)anthracene	ND	0.0980		µg/L	1	7/25/2024 4:32:00 PM
Fluorene	ND	0.0980		µg/L	1	7/25/2024 4:32:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.980		µg/L	1	7/25/2024 4:32:00 PM
Phenanthrene	ND	0.0980		µg/L	1	7/25/2024 4:32:00 PM
Pyrene	ND	0.0980		µg/L	1	7/25/2024 4:32:00 PM
Surr: 1,3-Dimethyl-2-nitrobenzene	90.4	70 - 130		%Rec	1	7/25/2024 4:32:00 PM
Surr: Benzo(a)pyrene-d12	105	70 - 130		%Rec	1	7/25/2024 4:32:00 PM
Surr: Triphenyl phosphate	135	70 - 130	S	%Rec	1	7/25/2024 4:32:00 PM

NOTES:

Possible high bias due to high surrogate recovery, confirmed by reanalysis. Sample is ND for all analytes.

SVOC BY SW8270E				SW8270	SW3510C	Analyst: SAM
SVOC BY 8270E						
1-Methylnaphthalene	ND	0.990		µg/L	1	7/25/2024 8:24:00 PM
2-Butoxyethanol	ND	29.7		µg/L	1	7/25/2024 8:24:00 PM
2-Methylnaphthalene	ND	0.990		µg/L	1	7/25/2024 8:24:00 PM
Acenaphthene	ND	0.990		µg/L	1	7/25/2024 8:24:00 PM
Fluoranthene	ND	0.990		µg/L	1	7/25/2024 8:24:00 PM
Surr: Nitrobenzene-d5	80.9	10 - 130		%Rec	1	7/25/2024 8:24:00 PM
Surr: 2-Fluorobiphenyl	78.6	10 - 130		%Rec	1	7/25/2024 8:24:00 PM
Surr: p-Terphenyl-d14	116	20 - 181		%Rec	1	7/25/2024 8:24:00 PM

DRINKING WATER VOCS (EPA 524.2)				E524.2	Analyst: ALS	
VOC-GC/MS (524.2)						
1,1-Dichloropropene	ND	0.500		µg/L	1	7/23/2024 11:49:00 AM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	7/23/2024 11:49:00 AM

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#: 24071589

Date Reported: 7/30/2024

CLIENT: Columbiana County Health District **Collection Date:** 7/19/2024 9:25:00 AM
Project: EP
Lab ID: 24071589-001 **Matrix:** DRINKING WATER
Client Sample ID: PW-824 Field Blank

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
DRINKING WATER VOCS (EPA 524.2)				E524.2		Analyst: ALS
VOC-GC/MS (524.2)						
Benzene	ND	0.500		µg/L	1	7/23/2024 11:49:00 AM
Ethylbenzene	ND	0.500		µg/L	1	7/23/2024 11:49:00 AM
m,p-Xylene	ND	0.500		µg/L	1	7/23/2024 11:49:00 AM
Naphthalene	ND	0.500		µg/L	1	7/23/2024 11:49:00 AM
o-Xylene	ND	0.500		µg/L	1	7/23/2024 11:49:00 AM
Toluene	ND	0.500		µg/L	1	7/23/2024 11:49:00 AM
Vinyl chloride	ND	0.500		µg/L	1	7/23/2024 11:49:00 AM
Surr: 1,2-Dichlorobenzene-d4	80.0	70 - 130		%Rec	1	7/23/2024 11:49:00 AM
Surr: 4-Bromofluorobenzene	84.2	70 - 130		%Rec	1	7/23/2024 11:49:00 AM
VOC ANALYSIS (8260D)				SW8260		Analyst: ALS
VOC BY GC/MS (8260D)						
2-Ethylhexyl acrylate	ND	5.00		µg/L	1	7/23/2024 12:52:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	7/23/2024 12:52:00 PM
Surr: 4-Bromofluorobenzene	88.0	70 - 130		%Rec	1	7/23/2024 12:52:00 PM
Surr: Dibromofluoromethane	98.7	70 - 130		%Rec	1	7/23/2024 12:52:00 PM
Surr: Toluene-d8	98.9	70 - 130		%Rec	1	7/23/2024 12:52:00 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#: 24071589

Date Reported: 7/30/2024

CLIENT: Columbiana County Health District

Collection Date: 7/19/2024 9:45:00 AM

Project: EP

Lab ID: 24071589-002

Matrix: DRINKING WATER

Client Sample ID: PW-824

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
DRINKING WATER ORGANIC COMPOUNDS (EPA 525)				E525	525	Analyst: JDB
SYNTHETIC ORGANIC COMPOUNDS BY GC/MS (EPA 525.3)						
Acenaphthylene	ND	0.0980		µg/L	1	7/25/2024 1:11:00 PM
Anthracene	ND	0.0980		µg/L	1	7/25/2024 1:11:00 PM
Benz(a)anthracene	ND	0.0980		µg/L	1	7/25/2024 1:11:00 PM
Benzo(a)pyrene	ND	0.0980		µg/L	1	7/25/2024 1:11:00 PM
Benzo(b)fluoranthene	ND	0.0980		µg/L	1	7/25/2024 1:11:00 PM
Benzo(g,h,i)perylene	ND	0.0980		µg/L	1	7/25/2024 1:11:00 PM
Benzo(k)fluoranthene	ND	0.0980		µg/L	1	7/25/2024 1:11:00 PM
Chrysene	ND	0.0980		µg/L	1	7/25/2024 1:11:00 PM
Dibenz(a,h)anthracene	ND	0.0980		µg/L	1	7/25/2024 1:11:00 PM
Fluorene	ND	0.0980		µg/L	1	7/25/2024 1:11:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.980		µg/L	1	7/25/2024 1:11:00 PM
Phenanthrene	ND	0.0980		µg/L	1	7/25/2024 1:11:00 PM
Pyrene	ND	0.0980		µg/L	1	7/25/2024 1:11:00 PM
Surr: 1,3-Dimethyl-2-nitrobenzene	88.0	70 - 130		%Rec	1	7/25/2024 1:11:00 PM
Surr: Benzo(a)pyrene-d12	109	70 - 130		%Rec	1	7/25/2024 1:11:00 PM
Surr: Triphenyl phosphate	126	70 - 130		%Rec	1	7/25/2024 1:11:00 PM
SVOC BY SW8270E				SW8270	SW3510C	Analyst: SAM
SVOC BY 8270E						
1-Methylnaphthalene	ND	0.971		µg/L	1	7/25/2024 8:56:00 PM
2-Butoxyethanol	ND	29.1		µg/L	1	7/25/2024 8:56:00 PM
2-Methylnaphthalene	ND	0.971		µg/L	1	7/25/2024 8:56:00 PM
Acenaphthene	ND	0.971		µg/L	1	7/25/2024 8:56:00 PM
Fluoranthene	ND	0.971		µg/L	1	7/25/2024 8:56:00 PM
Surr: Nitrobenzene-d5	85.7	10 - 130		%Rec	1	7/25/2024 8:56:00 PM
Surr: 2-Fluorobiphenyl	83.7	10 - 130		%Rec	1	7/25/2024 8:56:00 PM
Surr: p-Terphenyl-d14	124	20 - 181		%Rec	1	7/25/2024 8:56:00 PM
DRINKING WATER VOCs (EPA 524.2)				E524.2		Analyst: ALS
VOC-GC/MS (524.2)						
1,1-Dichloropropene	ND	0.500		µg/L	1	7/23/2024 12:20:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	7/23/2024 12:20:00 PM
Benzene	ND	0.500		µg/L	1	7/23/2024 12:20:00 PM
Ethylbenzene	ND	0.500		µg/L	1	7/23/2024 12:20:00 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#: 24071589

Date Reported: 7/30/2024

CLIENT: Columbiana County Health District **Collection Date:** 7/19/2024 9:45:00 AM
Project: EP
Lab ID: 24071589-002 **Matrix:** DRINKING WATER
Client Sample ID: PW-824

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
DRINKING WATER VOCS (EPA 524.2)				E524.2	Analyst: ALS	
VOC-GC/MS (524.2)						
m,p-Xylene	ND	0.500		µg/L	1	7/23/2024 12:20:00 PM
Naphthalene	ND	0.500		µg/L	1	7/23/2024 12:20:00 PM
o-Xylene	ND	0.500		µg/L	1	7/23/2024 12:20:00 PM
Toluene	ND	0.500		µg/L	1	7/23/2024 12:20:00 PM
Vinyl chloride	ND	0.500		µg/L	1	7/23/2024 12:20:00 PM
Surr: 1,2-Dichlorobenzene-d4	77.5	70 - 130		%Rec	1	7/23/2024 12:20:00 PM
Surr: 4-Bromofluorobenzene	82.4	70 - 130		%Rec	1	7/23/2024 12:20:00 PM
VOC ANALYSIS (8260D)				SW8260	Analyst: ALS	
VOC BY GC/MS (8260D)						
2-Ethylhexyl acrylate	ND	5.00		µg/L	1	7/23/2024 1:15:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	7/23/2024 1:15:00 PM
Surr: 4-Bromofluorobenzene	88.7	70 - 130		%Rec	1	7/23/2024 1:15:00 PM
Surr: Dibromofluoromethane	100	70 - 130		%Rec	1	7/23/2024 1:15:00 PM
Surr: Toluene-d8	100	70 - 130		%Rec	1	7/23/2024 1:15:00 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#: 24071589

Date Reported: 7/30/2024

CLIENT: Columbiana County Health District

Collection Date: 7/19/2024 10:45:00 AM

Project: EP

Lab ID: 24071589-003

Matrix: DRINKING WATER

Client Sample ID: PW-320

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
DRINKING WATER ORGANIC COMPOUNDS (EPA 525)				E525	525	Analyst: JDB
SYNTHETIC ORGANIC COMPOUNDS BY GC/MS (EPA 525.3)						
Acenaphthylene	ND	0.0980		µg/L	1	7/25/2024 5:05:00 PM
Anthracene	ND	0.0980		µg/L	1	7/25/2024 5:05:00 PM
Benz(a)anthracene	ND	0.0980		µg/L	1	7/25/2024 5:05:00 PM
Benzo(a)pyrene	ND	0.0980		µg/L	1	7/25/2024 5:05:00 PM
Benzo(b)fluoranthene	ND	0.0980		µg/L	1	7/25/2024 5:05:00 PM
Benzo(g,h,i)perylene	ND	0.0980		µg/L	1	7/25/2024 5:05:00 PM
Benzo(k)fluoranthene	ND	0.0980		µg/L	1	7/25/2024 5:05:00 PM
Chrysene	ND	0.0980		µg/L	1	7/25/2024 5:05:00 PM
Dibenz(a,h)anthracene	ND	0.0980		µg/L	1	7/25/2024 5:05:00 PM
Fluorene	ND	0.0980		µg/L	1	7/25/2024 5:05:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.980		µg/L	1	7/25/2024 5:05:00 PM
Phenanthrene	ND	0.0980		µg/L	1	7/25/2024 5:05:00 PM
Pyrene	ND	0.0980		µg/L	1	7/25/2024 5:05:00 PM
Surr: 1,3-Dimethyl-2-nitrobenzene	91.4	70 - 130		%Rec	1	7/25/2024 5:05:00 PM
Surr: Benzo(a)pyrene-d12	115	70 - 130		%Rec	1	7/25/2024 5:05:00 PM
Surr: Triphenyl phosphate	138	70 - 130	S	%Rec	1	7/25/2024 5:05:00 PM
SVOC BY SW8270E				SW8270	SW3510C	Analyst: SAM
SVOC BY 8270E						
1-Methylnaphthalene	ND	0.976		µg/L	1	7/25/2024 9:29:00 PM
2-Butoxyethanol	ND	29.3		µg/L	1	7/25/2024 9:29:00 PM
2-Methylnaphthalene	ND	0.976		µg/L	1	7/25/2024 9:29:00 PM
Acenaphthene	ND	0.976		µg/L	1	7/25/2024 9:29:00 PM
Fluoranthene	ND	0.976		µg/L	1	7/25/2024 9:29:00 PM
Surr: Nitrobenzene-d5	92.3	10 - 130		%Rec	1	7/25/2024 9:29:00 PM
Surr: 2-Fluorobiphenyl	89.7	10 - 130		%Rec	1	7/25/2024 9:29:00 PM
Surr: p-Terphenyl-d14	124	20 - 181		%Rec	1	7/25/2024 9:29:00 PM
DRINKING WATER VOCS (EPA 524.2)				E524.2		Analyst: ALS
VOC-GC/MS (524.2)						
1,1-Dichloropropene	ND	0.500		µg/L	1	7/23/2024 12:52:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	7/23/2024 12:52:00 PM
Benzene	ND	0.500		µg/L	1	7/23/2024 12:52:00 PM
Ethylbenzene	ND	0.500		µg/L	1	7/23/2024 12:52:00 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#: 24071589

Date Reported: 7/30/2024

CLIENT: Columbiana County Health District

Collection Date: 7/19/2024 10:45:00 AM

Project: EP

Lab ID: 24071589-003

Matrix: DRINKING WATER

Client Sample ID: PW-320

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
DRINKING WATER VOCS (EPA 524.2)				E524.2		Analyst: ALS
VOC-GC/MS (524.2)						
m,p-Xylene	ND	0.500		µg/L	1	7/23/2024 12:52:00 PM
Naphthalene	ND	0.500		µg/L	1	7/23/2024 12:52:00 PM
o-Xylene	ND	0.500		µg/L	1	7/23/2024 12:52:00 PM
Toluene	ND	0.500		µg/L	1	7/23/2024 12:52:00 PM
Vinyl chloride	ND	0.500		µg/L	1	7/23/2024 12:52:00 PM
Surr: 1,2-Dichlorobenzene-d4	78.0	70 - 130		%Rec	1	7/23/2024 12:52:00 PM
Surr: 4-Bromofluorobenzene	84.8	70 - 130		%Rec	1	7/23/2024 12:52:00 PM
VOC ANALYSIS (8260D)				SW8260		Analyst: ALS
VOC BY GC/MS (8260D)						
2-Ethylhexyl acrylate	ND	5.00		µg/L	1	7/23/2024 1:38:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	7/23/2024 1:38:00 PM
Surr: 4-Bromofluorobenzene	89.7	70 - 130		%Rec	1	7/23/2024 1:38:00 PM
Surr: Dibromofluoromethane	99.2	70 - 130		%Rec	1	7/23/2024 1:38:00 PM
Surr: Toluene-d8	99.1	70 - 130		%Rec	1	7/23/2024 1:38:00 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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 Website: <http://www.settek.com>

Analytical Report

(consolidated)

WO#: 24071589

Date Reported: 7/30/2024

CLIENT: Columbiana County Health District

Collection Date: 7/19/2024

Project: EP

Lab ID: 24071589-004

Matrix: DRINKING WATER

Client Sample ID: Dup

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
DRINKING WATER ORGANIC COMPOUNDS (EPA 525)				E525	525	Analyst: JDB
SYNTHETIC ORGANIC COMPOUNDS BY GC/MS (EPA 525.3)						
Acenaphthylene	ND	0.0980		µg/L	1	7/25/2024 5:39:00 PM
Anthracene	ND	0.0980		µg/L	1	7/25/2024 5:39:00 PM
Benz(a)anthracene	ND	0.0980		µg/L	1	7/25/2024 5:39:00 PM
Benzo(a)pyrene	ND	0.0980		µg/L	1	7/25/2024 5:39:00 PM
Benzo(b)fluoranthene	ND	0.0980		µg/L	1	7/25/2024 5:39:00 PM
Benzo(g,h,i)perylene	ND	0.0980		µg/L	1	7/25/2024 5:39:00 PM
Benzo(k)fluoranthene	ND	0.0980		µg/L	1	7/25/2024 5:39:00 PM
Chrysene	ND	0.0980		µg/L	1	7/25/2024 5:39:00 PM
Dibenz(a,h)anthracene	ND	0.0980		µg/L	1	7/25/2024 5:39:00 PM
Fluorene	ND	0.0980		µg/L	1	7/25/2024 5:39:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.980		µg/L	1	7/25/2024 5:39:00 PM
Phenanthrene	ND	0.0980		µg/L	1	7/25/2024 5:39:00 PM
Pyrene	ND	0.0980		µg/L	1	7/25/2024 5:39:00 PM
Surr: 1,3-Dimethyl-2-nitrobenzene	87.0	70 - 130		%Rec	1	7/25/2024 5:39:00 PM
Surr: Benzo(a)pyrene-d12	116	70 - 130		%Rec	1	7/25/2024 5:39:00 PM
Surr: Triphenyl phosphate	129	70 - 130		%Rec	1	7/25/2024 5:39:00 PM
SVOC BY SW8270E				SW8270	SW3510C	Analyst: SAM
SVOC BY 8270E						
1-Methylnaphthalene	ND	0.980		µg/L	1	7/25/2024 3:53:00 AM
2-Butoxyethanol	ND	29.4		µg/L	1	7/25/2024 3:53:00 AM
2-Methylnaphthalene	ND	0.980		µg/L	1	7/25/2024 3:53:00 AM
Acenaphthene	ND	0.980		µg/L	1	7/25/2024 3:53:00 AM
Fluoranthene	ND	0.980		µg/L	1	7/25/2024 3:53:00 AM
Surr: Nitrobenzene-d5	74.3	10 - 130		%Rec	1	7/25/2024 3:53:00 AM
Surr: 2-Fluorobiphenyl	83.5	10 - 130		%Rec	1	7/25/2024 3:53:00 AM
Surr: p-Terphenyl-d14	110	20 - 181		%Rec	1	7/25/2024 3:53:00 AM
DRINKING WATER VOCS (EPA 524.2)				E524.2		Analyst: ALS
VOC-GC/MS (524.2)						
1,1-Dichloropropene	ND	0.500		µg/L	1	7/23/2024 6:10:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	7/23/2024 6:10:00 PM
Benzene	ND	0.500		µg/L	1	7/23/2024 6:10:00 PM
Ethylbenzene	ND	0.500		µg/L	1	7/23/2024 6:10:00 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#: 24071589

Date Reported: 7/30/2024

CLIENT: Columbiana County Health District

Collection Date: 7/19/2024

Project: EP

Lab ID: 24071589-004

Matrix: DRINKING WATER

Client Sample ID: Dup

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
DRINKING WATER VOCS (EPA 524.2)				E524.2	Analyst: ALS	
VOC-GC/MS (524.2)						
m,p-Xylene	ND	0.500		µg/L	1	7/23/2024 6:10:00 PM
Naphthalene	ND	0.500		µg/L	1	7/23/2024 6:10:00 PM
o-Xylene	ND	0.500		µg/L	1	7/23/2024 6:10:00 PM
Toluene	ND	0.500		µg/L	1	7/23/2024 6:10:00 PM
Vinyl chloride	ND	0.500		µg/L	1	7/23/2024 6:10:00 PM
Surr: 1,2-Dichlorobenzene-d4	77.8	70 - 130		%Rec	1	7/23/2024 6:10:00 PM
Surr: 4-Bromofluorobenzene	83.5	70 - 130		%Rec	1	7/23/2024 6:10:00 PM
VOC ANALYSIS (8260D)				SW8260	Analyst: ALS	
VOC BY GC/MS (8260D)						
2-Ethylhexyl acrylate	ND	5.00		µg/L	1	7/23/2024 2:02:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	7/23/2024 2:02:00 PM
Surr: 4-Bromofluorobenzene	86.8	70 - 130		%Rec	1	7/23/2024 2:02:00 PM
Surr: Dibromofluoromethane	102	70 - 130		%Rec	1	7/23/2024 2:02:00 PM
Surr: Toluene-d8	99.6	70 - 130		%Rec	1	7/23/2024 2:02:00 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#: 24071589

Date Reported: 7/30/2024

CLIENT: Columbiana County Health District

Collection Date: 7/19/2024 2:35:00 PM

Project: EP

Lab ID: 24071589-005

Matrix: DRINKING WATER

Client Sample ID: PW-482

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
DRINKING WATER ORGANIC COMPOUNDS (EPA 525)				E525	525	Analyst: JDB
SYNTHETIC ORGANIC COMPOUNDS BY GC/MS (EPA 525.3)						
Acenaphthylene	ND	0.0971		µg/L	1	7/25/2024 2:51:00 PM
Anthracene	ND	0.0971		µg/L	1	7/25/2024 2:51:00 PM
Benz(a)anthracene	ND	0.0971		µg/L	1	7/25/2024 2:51:00 PM
Benzo(a)pyrene	ND	0.0971		µg/L	1	7/25/2024 2:51:00 PM
Benzo(b)fluoranthene	ND	0.0971		µg/L	1	7/25/2024 2:51:00 PM
Benzo(g,h,i)perylene	ND	0.0971		µg/L	1	7/25/2024 2:51:00 PM
Benzo(k)fluoranthene	ND	0.0971		µg/L	1	7/25/2024 2:51:00 PM
Chrysene	ND	0.0971		µg/L	1	7/25/2024 2:51:00 PM
Dibenz(a,h)anthracene	ND	0.0971		µg/L	1	7/25/2024 2:51:00 PM
Fluorene	ND	0.0971		µg/L	1	7/25/2024 2:51:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.971		µg/L	1	7/25/2024 2:51:00 PM
Phenanthrene	ND	0.0971		µg/L	1	7/25/2024 2:51:00 PM
Pyrene	ND	0.0971		µg/L	1	7/25/2024 2:51:00 PM
Surr: 1,3-Dimethyl-2-nitrobenzene	91.8	70 - 130		%Rec	1	7/25/2024 2:51:00 PM
Surr: Benzo(a)pyrene-d12	104	70 - 130		%Rec	1	7/25/2024 2:51:00 PM
Surr: Triphenyl phosphate	123	70 - 130		%Rec	1	7/25/2024 2:51:00 PM
SVOC BY SW8270E				SW8270	SW3510C	Analyst: SAM
SVOC BY 8270E						
1-Methylnaphthalene	ND	1.00		µg/L	1	7/26/2024 7:35:00 PM
2-Butoxyethanol	ND	30.0		µg/L	1	7/26/2024 7:35:00 PM
2-Methylnaphthalene	ND	1.00		µg/L	1	7/26/2024 7:35:00 PM
Acenaphthene	ND	1.00		µg/L	1	7/26/2024 7:35:00 PM
Fluoranthene	ND	1.00		µg/L	1	7/26/2024 7:35:00 PM
Surr: Nitrobenzene-d5	97.7	10 - 130		%Rec	1	7/26/2024 7:35:00 PM
Surr: 2-Fluorobiphenyl	106	10 - 130		%Rec	1	7/26/2024 7:35:00 PM
Surr: p-Terphenyl-d14	116	20 - 181		%Rec	1	7/26/2024 7:35:00 PM
DRINKING WATER VOCs (EPA 524.2)				E524.2		Analyst: ALS
VOC-GC/MS (524.2)						
1,1-Dichloropropene	ND	0.500		µg/L	1	7/23/2024 5:38:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	7/23/2024 5:38:00 PM
Benzene	ND	0.500		µg/L	1	7/23/2024 5:38:00 PM
Ethylbenzene	ND	0.500		µg/L	1	7/23/2024 5:38:00 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#: **24071589**

Date Reported: **7/30/2024**

CLIENT: Columbiana County Health District **Collection Date:** 7/19/2024 2:35:00 PM
Project: EP
Lab ID: 24071589-005 **Matrix:** DRINKING WATER
Client Sample ID: PW-482

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
DRINKING WATER VOCS (EPA 524.2)				E524.2		Analyst: ALS
VOC-GC/MS (524.2)						
m,p-Xylene	ND	0.500		µg/L	1	7/23/2024 5:38:00 PM
Naphthalene	ND	0.500		µg/L	1	7/23/2024 5:38:00 PM
o-Xylene	ND	0.500		µg/L	1	7/23/2024 5:38:00 PM
Toluene	ND	0.500		µg/L	1	7/23/2024 5:38:00 PM
Vinyl chloride	ND	0.500		µg/L	1	7/23/2024 5:38:00 PM
Surr: 1,2-Dichlorobenzene-d4	84.5	70 - 130		%Rec	1	7/23/2024 5:38:00 PM
Surr: 4-Bromofluorobenzene	92.2	70 - 130		%Rec	1	7/23/2024 5:38:00 PM
VOC ANALYSIS (8260D)				SW8260		Analyst: ALS
VOC BY GC/MS (8260D)						
2-Ethylhexyl acrylate	ND	5.00		µg/L	1	7/23/2024 2:25:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	7/23/2024 2:25:00 PM
Surr: 4-Bromofluorobenzene	88.9	70 - 130		%Rec	1	7/23/2024 2:25:00 PM
Surr: Dibromofluoromethane	103	70 - 130		%Rec	1	7/23/2024 2:25:00 PM
Surr: Toluene-d8	101	70 - 130		%Rec	1	7/23/2024 2:25:00 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#: **24071589**

Date Reported: **7/30/2024**

CLIENT: Columbiana County Health District

Collection Date:

Project: EP

Lab ID: 24071589-006

Matrix: DRINKING WATER

Client Sample ID: Trip Blank 1

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
DRINKING WATER VOCS (EPA 524.2)				E524.2		Analyst: ALS
VOC-GC/MS (524.2)						
1,1-Dichloropropene	ND	0.500		µg/L	1	7/23/2024 10:46:00 AM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	7/23/2024 10:46:00 AM
Benzene	ND	0.500		µg/L	1	7/23/2024 10:46:00 AM
Ethylbenzene	ND	0.500		µg/L	1	7/23/2024 10:46:00 AM
m,p-Xylene	ND	0.500		µg/L	1	7/23/2024 10:46:00 AM
Naphthalene	ND	0.500		µg/L	1	7/23/2024 10:46:00 AM
o-Xylene	ND	0.500		µg/L	1	7/23/2024 10:46:00 AM
Toluene	ND	0.500		µg/L	1	7/23/2024 10:46:00 AM
Vinyl chloride	ND	0.500		µg/L	1	7/23/2024 10:46:00 AM
Surr: 1,2-Dichlorobenzene-d4	81.9	70 - 130		%Rec	1	7/23/2024 10:46:00 AM
Surr: 4-Bromofluorobenzene	85.3	70 - 130		%Rec	1	7/23/2024 10:46:00 AM
VOC ANALYSIS (8260D)				SW8260		Analyst: ALS
VOC BY GC/MS (8260D)						
2-Ethylhexyl acrylate	ND	5.00		µg/L	1	7/23/2024 2:48:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	7/23/2024 2:48:00 PM
Surr: 4-Bromofluorobenzene	90.4	70 - 130		%Rec	1	7/23/2024 2:48:00 PM
Surr: Dibromofluoromethane	101	70 - 130		%Rec	1	7/23/2024 2:48:00 PM
Surr: Toluene-d8	101	70 - 130		%Rec	1	7/23/2024 2:48:00 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#: 24071589

Date Reported: 7/30/2024

CLIENT: Columbiana County Health District

Collection Date:

Project: EP

Lab ID: 24071589-007

Matrix: DRINKING WATER

Client Sample ID: Trip Blank 2

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
DRINKING WATER VOCS (EPA 524.2)				E524.2		Analyst: ALS
VOC-GC/MS (524.2)						
1,1-Dichloropropene	ND	0.500		µg/L	1	7/23/2024 11:17:00 AM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	7/23/2024 11:17:00 AM
Benzene	ND	0.500		µg/L	1	7/23/2024 11:17:00 AM
Ethylbenzene	ND	0.500		µg/L	1	7/23/2024 11:17:00 AM
m,p-Xylene	ND	0.500		µg/L	1	7/23/2024 11:17:00 AM
Naphthalene	ND	0.500		µg/L	1	7/23/2024 11:17:00 AM
o-Xylene	ND	0.500		µg/L	1	7/23/2024 11:17:00 AM
Toluene	ND	0.500		µg/L	1	7/23/2024 11:17:00 AM
Vinyl chloride	ND	0.500		µg/L	1	7/23/2024 11:17:00 AM
Surr: 1,2-Dichlorobenzene-d4	77.6	70 - 130		%Rec	1	7/23/2024 11:17:00 AM
Surr: 4-Bromofluorobenzene	85.6	70 - 130		%Rec	1	7/23/2024 11:17:00 AM
VOC ANALYSIS (8260D)				SW8260		Analyst: ALS
VOC BY GC/MS (8260D)						
2-Ethylhexyl acrylate	ND	5.00		µg/L	1	7/23/2024 3:11:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	7/23/2024 3:11:00 PM
Surr: 4-Bromofluorobenzene	90.5	70 - 130		%Rec	1	7/23/2024 3:11:00 PM
Surr: Dibromofluoromethane	100	70 - 130		%Rec	1	7/23/2024 3:11:00 PM
Surr: Toluene-d8	99.2	70 - 130		%Rec	1	7/23/2024 3:11:00 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#: 24071589
 30-Jul-24

Client: Columbiana County Health District
Project: EP

BatchID: 77099

Sample ID: MB-77099	SampType: MBLK	TestCode: SVOC-MSTR	Units: µg/L	Prep Date: 7/22/2024	RunNo: 190028						
Client ID: PBW	Batch ID: 77099	TestNo: SW8270	SW3510C	Analysis Date: 7/24/2024	SeqNo: 5152074						
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	0.0146		0.05000		29.1	10	130				
Surr: Phenol-d6	0.00921		0.05000		18.4	10	130				
Surr: Nitrobenzene-d5	0.0379		0.05000		75.8	10	130				
Surr: 2,4,6-Tribromophenol	0.0394		0.05000		78.8	19	151				
Surr: 2-Fluorobiphenyl	0.0438		0.05000		87.6	10	130				
Surr: p-Terphenyl-d14	0.0592		0.05000		118	20	181				

Sample ID: LCS-77099	SampType: LCS	TestCode: SVOC-MSTR	Units: µg/L	Prep Date: 7/22/2024	RunNo: 190028						
Client ID: LCSW	Batch ID: 77099	TestNo: SW8270	SW3510C	Analysis Date: 7/24/2024	SeqNo: 5152075						
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	29.4	5.00	40.0	0	73.6	33	130				
2-Methylnaphthalene	30.6	5.00	40.0	0	76.4	32	130				
Acenaphthene	33.5	5.00	40.0	0	83.7	44	130				
Fluoranthene	40.8	5.00	40.0	0	102	63	130				
Surr: 2-Fluorophenol	0.0172		0.05000		34.5	10	130				
Surr: Phenol-d6	0.0144		0.05000		28.8	10	130				
Surr: Nitrobenzene-d5	0.0439		0.05000		87.8	10	130				
Surr: 2,4,6-Tribromophenol	0.0482		0.05000		96.5	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#: 24071589
 30-Jul-24

Client: Columbiana County Health District
Project: EP

BatchID: 77099

Sample ID: LCS-77099	SampType: LCS	TestCode: SVOC-MSTR	Units: µg/L	Prep Date: 7/22/2024	RunNo: 190028						
Client ID: LCSW	Batch ID: 77099	TestNo: SW8270	SW3510C	Analysis Date: 7/24/2024	SeqNo: 5152075						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 2-Fluorobiphenyl	0.0490		0.05000		97.9	10	130				
Surr: p-Terphenyl-d14	0.0586		0.05000		117	20	181				

Sample ID: LCSD-77099	SampType: LCSD	TestCode: SVOC-MSTR	Units: µg/L	Prep Date: 7/22/2024	RunNo: 190028						
Client ID: LCSS02	Batch ID: 77099	TestNo: SW8270	SW3510C	Analysis Date: 7/24/2024	SeqNo: 5152076						
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	25.4	5.00	40.0	0	63.6	33	130	29.4	14.5	30	
2-Methylnaphthalene	26.5	5.00	40.0	0	66.2	32	130	30.6	14.3	30	
Acenaphthene	29.4	5.00	40.0	0	73.5	44	130	33.5	13.0	30	
Fluoranthene	36.6	5.00	40.0	0	91.6	63	130	40.8	10.8	30	
Surr: 2-Fluorophenol	0.0172		0.05000		34.3	10	130		0		
Surr: Phenol-d6	0.0145		0.05000		29.0	10	130		0		
Surr: Nitrobenzene-d5	0.0396		0.05000		79.1	10	130		0		
Surr: 2,4,6-Tribromophenol	0.0446		0.05000		89.3	19	151		0		
Surr: 2-Fluorobiphenyl	0.0431		0.05000		86.2	10	130		0		
Surr: p-Terphenyl-d14	0.0535		0.05000		107	20	181		0		

Sample ID: 24071482-005BMS	SampType: MS	TestCode: SVOC-MSTR	Units: µg/L	Prep Date: 7/22/2024	RunNo: 190028						
Client ID: BatchQC	Batch ID: 77099	TestNo: SW8270	SW3510C	Analysis Date: 7/25/2024	SeqNo: 5152086						
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	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#: 24071589
30-Jul-24

Client: Columbiana County Health District
Project: EP

BatchID: 77099

Sample ID: 24071482-005BMS	SampType: MS	TestCode: SVOC-MSTR	Units: µg/L	Prep Date: 7/22/2024	RunNo: 190028						
Client ID: BatchQC	Batch ID: 77099	TestNo: SW8270	SW3510C	Analysis Date: 7/25/2024	SeqNo: 5152086						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Butoxyethanol	ND	29.1		0	0	70	130				
1-Methylnaphthalene	28.4	4.85	38.8	0	73.2	45	130				
2-Methylnaphthalene	29.4	4.85	38.8	0	75.8	42	134				
Acenaphthene	31.5	4.85	38.8	0	81.2	52	128				
Fluoranthene	36.2	4.85	38.8	0	93.1	61	136				
Surr: 2-Fluorophenol	0.0185		0.04854		38.0	10	130				
Surr: Phenol-d6	0.0148		0.04854		30.6	10	130				
Surr: Nitrobenzene-d5	0.0434		0.04854		89.4	10	130				
Surr: 2,4,6-Tribromophenol	0.0406		0.04854		83.7	19	151				
Surr: 2-Fluorobiphenyl	0.0480		0.04854		98.9	10	130				
Surr: p-Terphenyl-d14	0.0556		0.04854		114	20	181				

Sample ID: 24071482-005BMSD	SampType: MSD	TestCode: SVOC-MSTR	Units: µg/L	Prep Date: 7/22/2024	RunNo: 190028						
Client ID: BatchQC	Batch ID: 77099	TestNo: SW8270	SW3510C	Analysis Date: 7/25/2024	SeqNo: 5152087						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Butoxyethanol	ND	29.4		0	0	70	130	0	0	30	
1-Methylnaphthalene	28.7	4.90	39.2	0	73.2	45	130	28.4	0.941	30	
2-Methylnaphthalene	29.7	4.90	39.2	0	75.6	42	134	29.4	0.745	30	
Acenaphthene	32.5	4.90	39.2	0	82.8	52	128	31.5	2.96	30	
Fluoranthene	37.9	4.90	39.2	0	96.6	61	136	36.2	4.67	30	
Surr: 2-Fluorophenol	0.0182		0.04902		37.0	10	130		0		
Surr: Phenol-d6	0.0148		0.04902		30.3	10	130		0		
Surr: Nitrobenzene-d5	0.0432		0.04902		88.1	10	130		0		
Surr: 2,4,6-Tribromophenol	0.0420		0.04902		85.7	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#: 24071589
30-Jul-24

Client: Columbiana County Health District
Project: EP

BatchID: 77099

Sample ID: 24071482-005BMSD	SampType: MSD	TestCode: SVOC-MSTR	Units: µg/L	Prep Date: 7/22/2024	RunNo: 190028						
Client ID: BatchQC	Batch ID: 77099	TestNo: SW8270	SW3510C	Analysis Date: 7/25/2024	SeqNo: 5152087						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	0.0483		0.04902		98.4	10	130		0		
Surr: p-Terphenyl-d14	0.0557		0.04902		114	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#: 24071589
30-Jul-24

Client: Columbiana County Health District
Project: EP

BatchID: 77143

Sample ID: MB-77143	SampType: MBLK	TestCode: SVOC-MSTR	Units: µg/L	Prep Date: 7/23/2024	RunNo: 190046						
Client ID: PBW	Batch ID: 77143	TestNo: SW8270	SW3510C	Analysis Date: 7/25/2024	SeqNo: 5152429						
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	0.0163		0.05000		32.6	10	130				
Surr: Phenol-d6	0.00907		0.05000		18.1	10	130				
Surr: Nitrobenzene-d5	0.0440		0.05000		88.0	10	130				
Surr: 2,4,6-Tribromophenol	0.0328		0.05000		65.6	19	151				
Surr: 2-Fluorobiphenyl	0.0428		0.05000		85.6	10	130				
Surr: p-Terphenyl-d14	0.0589		0.05000		118	20	181				

Sample ID: LCS-77143	SampType: LCS	TestCode: SVOC-MSTR	Units: µg/L	Prep Date: 7/23/2024	RunNo: 190046						
Client ID: LCSW	Batch ID: 77143	TestNo: SW8270	SW3510C	Analysis Date: 7/25/2024	SeqNo: 5152430						
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	28.0	5.00	40.0	0	70.0	33	130				
2-Methylnaphthalene	28.6	5.00	40.0	0	71.5	32	130				
Acenaphthene	32.0	5.00	40.0	0	80.0	44	130				
Fluoranthene	36.3	5.00	40.0	0	90.8	63	130				
Surr: 2-Fluorophenol	0.0169		0.05000		33.8	10	130				
Surr: Phenol-d6	0.0149		0.05000		29.7	10	130				
Surr: Nitrobenzene-d5	0.0435		0.05000		87.0	10	130				
Surr: 2,4,6-Tribromophenol	0.0423		0.05000		84.6	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#: 24071589
 30-Jul-24

Client: Columbiana County Health District
Project: EP

BatchID: 77143

Sample ID: LCS-77143	SampType: LCS	TestCode: SVOC-MSTR	Units: µg/L	Prep Date: 7/23/2024	RunNo: 190046						
Client ID: LCSW	Batch ID: 77143	TestNo: SW8270	SW3510C	Analysis Date: 7/25/2024	SeqNo: 5152430						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 2-Fluorobiphenyl	0.0398		0.05000		79.5	10	130				
Surr: p-Terphenyl-d14	0.0570		0.05000		114	20	181				

Sample ID: 24071591-005BMS	SampType: MS	TestCode: SVOC-MSTR	Units: µg/L	Prep Date: 7/23/2024	RunNo: 190046						
Client ID: BatchQC	Batch ID: 77143	TestNo: SW8270	SW3510C	Analysis Date: 7/26/2024	SeqNo: 5153223						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

2-Butoxyethanol	ND	29.3		0	0	70	130				
1-Methylnaphthalene	28.1	4.88	39.0	0	72.0	45	130				
2-Methylnaphthalene	29.1	4.88	39.0	0	74.5	42	134				
Acenaphthene	31.4	4.88	39.0	0	80.4	52	128				
Fluoranthene	35.4	4.88	39.0	0	90.7	61	136				
Surr: 2-Fluorophenol	0.0184		0.04878		37.6	10	130				
Surr: Phenol-d6	0.0145		0.04878		29.6	10	130				
Surr: Nitrobenzene-d5	0.0420		0.04878		86.1	10	130				
Surr: 2,4,6-Tribromophenol	0.0405		0.04878		83.0	19	151				
Surr: 2-Fluorobiphenyl	0.0466		0.04878		95.6	10	130				
Surr: p-Terphenyl-d14	0.0572		0.04878		117	20	181				

Sample ID: 24071591-005BMSD	SampType: MSD	TestCode: SVOC-MSTR	Units: µg/L	Prep Date: 7/23/2024	RunNo: 190046						
Client ID: BatchQC	Batch ID: 77143	TestNo: SW8270	SW3510C	Analysis Date: 7/26/2024	SeqNo: 5153224						
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	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#: **24071589**
30-Jul-24

Client: Columbiana County Health District
Project: EP

BatchID: 77143

Sample ID: 24071591-005BMSD	SampType: MSD	TestCode: SVOC-MSTR	Units: µg/L	Prep Date: 7/23/2024	RunNo: 190046						
Client ID: BatchQC	Batch ID: 77143	TestNo: SW8270	SW3510C	Analysis Date: 7/26/2024	SeqNo: 5153224						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Butoxyethanol	ND	29.3		0	0	70	130	0	0	30	
1-Methylnaphthalene	27.6	4.88	39.0	0	70.9	45	130	28.1	1.61	30	
2-Methylnaphthalene	29.2	4.88	39.0	0	74.7	42	134	29.1	0.335	30	
Acenaphthene	30.6	4.88	39.0	0	78.5	52	128	31.4	2.36	30	
Fluoranthene	34.6	4.88	39.0	0	88.7	61	136	35.4	2.23	30	
Surr: 2-Fluorophenol	0.0193		0.04878		39.5	10	130		0		
Surr: Phenol-d6	0.0152		0.04878		31.1	10	130		0		
Surr: Nitrobenzene-d5	0.0422		0.04878		86.6	10	130		0		
Surr: 2,4,6-Tribromophenol	0.0398		0.04878		81.6	19	151		0		
Surr: 2-Fluorobiphenyl	0.0456		0.04878		93.5	10	130		0		
Surr: p-Terphenyl-d14	0.0535		0.04878		110	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 exceeded
 PL Permit Limit
 S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: 24071589
30-Jul-24

Client: Columbiana County Health District
Project: EP

BatchID: 77143

Sample ID: LCSD-77143	SampType: LCSD	TestCode: SVOC-MSTR	Units: µg/L	Prep Date: 7/23/2024	RunNo: 190041						
Client ID: LCSS02	Batch ID: 77143	TestNo: SW8270	SW3510C	Analysis Date: 7/25/2024	SeqNo: 5152619						
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	27.9	5.00	40.0	0	69.8	33	130	28.0	0.358	30	
2-Methylnaphthalene	27.5	5.00	40.0	0	68.8	32	130	28.6	3.92	30	
Acenaphthene	31.1	5.00	40.0	0	77.8	44	130	32.0	2.76	30	
Fluoranthene	36.3	5.00	40.0	0	90.8	63	130	36.3	0.0826	30	
Surr: 2-Fluorophenol	0.0265		0.05000		53.0	10	130		0		
Surr: Phenol-d6	0.0194		0.05000		38.7	10	130		0		
Surr: Nitrobenzene-d5	0.0515		0.05000		103	10	130		0		
Surr: 2,4,6-Tribromophenol	0.0450		0.05000		90.1	19	151		0		
Surr: 2-Fluorobiphenyl	0.0397		0.05000		79.4	10	130		0		
Surr: p-Terphenyl-d14	0.0476		0.05000		95.1	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#: 24071589
 30-Jul-24

Client: Columbiana County Health District
Project: EP

BatchID: 77161

Sample ID: 24071591-005AMS	SampType: MS	TestCode: SVOC_DW(52	Units: µg/L	Prep Date: 7/24/2024	RunNo: 190230						
Client ID: BatchQC	Batch ID: 77161	TestNo: E525	525	Analysis Date: 7/26/2024	SeqNo: 5157360						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthylene	4.45	0.0971	4.854	0	91.6	70	130				
Anthracene	4.55	0.0971	4.854	0	93.8	70	130				
Benz(a)anthracene	5.17	0.0971	4.854	0	106	70	130				
Benzo(a)pyrene	4.89	0.0971	4.854	0	101	70	130				
Benzo(b)fluoranthene	5.34	0.0971	4.854	0	110	70	130				
Benzo(g,h,i)perylene	5.42	0.0971	4.854	0	112	70	130				
Benzo(k)fluoranthene	5.17	0.0971	4.854	0	107	70	130				
Chrysene	4.98	0.0971	4.854	0	103	70	130				
Dibenz(a,h)anthracene	5.40	0.0971	4.854	0	111	70	130				
Fluorene	4.60	0.0971	4.854	0	94.8	70	130				
Indeno(1,2,3-cd)pyrene	5.32	0.971	4.854	0	110	70	130				
Phenanthrene	4.78	0.0971	4.854	0	98.4	70	130				
Pyrene	4.99	0.0971	4.854	0	103	70	130				
Surr: 1,3-Dimethyl-2-nitrobe...	4.64		4.854		95.6	70	130				
Surr: Benzo(a)pyrene-d12	5.55		4.854		114	70	130				
Surr: Triphenyl phosphate	6.36		4.854		131	70	130				S

Sample ID: 24071591-005AMSD	SampType: MSD	TestCode: SVOC_DW(52	Units: µg/L	Prep Date: 7/24/2024	RunNo: 190230						
Client ID: BatchQC	Batch ID: 77161	TestNo: E525	525	Analysis Date: 7/26/2024	SeqNo: 5157361						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthylene	4.34	0.0980	4.902	0	88.6	70	130	4.447	2.35	30	
Anthracene	4.55	0.0980	4.902	0	92.8	70	130	4.553	0.0962	30	
Benz(a)anthracene	4.92	0.0980	4.902	0	100	70	130	5.165	4.83	30	
Benzo(a)pyrene	4.56	0.0980	4.902	0	93.0	70	130	4.893	7.08	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#: 24071589
30-Jul-24

Client: Columbiana County Health District
Project: EP

BatchID: 77161

Sample ID: 24071591-005AMSD	SampType: MSD	TestCode: SVOC_DW(52)	Units: µg/L	Prep Date: 7/24/2024	RunNo: 190230						
Client ID: BatchQC	Batch ID: 77161	TestNo: E525	525	Analysis Date: 7/26/2024	SeqNo: 5157361						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(b)fluoranthene	5.00	0.0980	4.902	0	102	70	130	5.340	6.57	30	
Benzo(g,h,i)perylene	5.13	0.0980	4.902	0	105	70	130	5.417	5.50	30	
Benzo(k)fluoranthene	4.83	0.0980	4.902	0	98.6	70	130	5.175	6.82	30	
Chrysene	4.73	0.0980	4.902	0	96.4	70	130	4.981	5.26	30	
Dibenz(a,h)anthracene	5.04	0.0980	4.902	0	103	70	130	5.398	6.88	30	
Fluorene	4.57	0.0980	4.902	0	93.2	70	130	4.602	0.727	30	
Indeno(1,2,3-cd)pyrene	5.06	0.980	4.902	0	103	70	130	5.320	5.04	30	
Phenanthrene	4.87	0.0980	4.902	0	99.4	70	130	4.777	1.99	30	
Pyrene	4.90	0.0980	4.902	0	100	70	130	4.990	1.79	30	
Surr: 1,3-Dimethyl-2-nitrobenz...	4.37		4.902		89.2	70	130		0	0	
Surr: Benzo(a)pyrene-d12	5.06		4.902		103	70	130		0	0	
Surr: Triphenyl phosphate	5.99		4.902		122	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#: 24071589
30-Jul-24

Client: Columbiana County Health District
Project: EP

BatchID: 77161

Sample ID: MB-77161	SampType: MBLK	TestCode: SVOC_DW(52 Units: µg/L	Prep Date: 7/24/2024	RunNo: 190229							
Client ID: PBW	Batch ID: 77161	TestNo: E525 525	Analysis Date: 7/25/2024	SeqNo: 5157337							
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	4.37		5.000		87.4	70	130				
Surr: Benzo(a)pyrene-d12	6.58		5.000		132	70	130				S
Surr: Triphenyl phosphate	8.31		5.000		166	70	130				S

Sample ID: LCS-77161	SampType: LCS	TestCode: SVOC_DW(52 Units: µg/L	Prep Date: 7/24/2024	RunNo: 190229							
Client ID: LCSW	Batch ID: 77161	TestNo: E525 525	Analysis Date: 7/25/2024	SeqNo: 5157339							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthylene	4.67	0.100	5.000	0	93.4	70	130				
Anthracene	4.94	0.100	5.000	0	98.8	70	130				
Benz(a)anthracene	5.23	0.100	5.000	0	105	70	130				
Benzo(a)pyrene	4.80	0.100	5.000	0	96.0	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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Website: <http://www.settek.com>

QC SUMMARY REPORT

WO#: 24071589
30-Jul-24

Client: Columbiana County Health District
Project: EP

BatchID: 77161

Sample ID: LCS-77161	SampType: LCS	TestCode: SVOC_DW(52	Units: µg/L	Prep Date: 7/24/2024	RunNo: 190229						
Client ID: LCSW	Batch ID: 77161	TestNo: E525	525	Analysis Date: 7/25/2024	SeqNo: 5157339						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(b)fluoranthene	5.17	0.100	5.000	0	103	70	130				
Benzo(g,h,i)perylene	5.13	0.100	5.000	0	103	70	130				
Benzo(k)fluoranthene	5.24	0.100	5.000	0	105	70	130				
Chrysene	4.98	0.100	5.000	0	99.6	70	130				
Dibenz(a,h)anthracene	5.11	0.100	5.000	0	102	70	130				
Fluorene	4.92	0.100	5.000	0	98.4	70	130				
Indeno(1,2,3-cd)pyrene	4.88	1.00	5.000	0	97.6	70	130				
Phenanthrene	5.18	0.100	5.000	0	104	70	130				
Pyrene	5.23	0.100	5.000	0	105	70	130				
Surr: 1,3-Dimethyl-2-nitrobenzene	4.27		5.000		85.4	70	130				
Surr: Benzo(a)pyrene-d12	5.53		5.000		111	70	130				
Surr: Triphenyl phosphate	6.70		5.000		134	70	130				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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QC SUMMARY REPORT

WO#: 24071589
30-Jul-24

Client: Columbiana County Health District
Project: EP

BatchID: 77196

Sample ID: MB-77196	SampType: MBLK	TestCode: SVOC-MSTR	Units: µg/L	Prep Date: 7/25/2024	RunNo: 190174						
Client ID: PBW	Batch ID: 77196	TestNo: SW8270	SW3510C	Analysis Date: 7/26/2024	SeqNo: 5156224						
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	0.0187		0.05000		37.4	10	130				
Surr: Phenol-d6	0.0133		0.05000		26.5	10	130				m
Surr: Nitrobenzene-d5	0.0468		0.05000		93.5	10	130				
Surr: 2,4,6-Tribromophenol	0.0404		0.05000		80.7	19	151				
Surr: 2-Fluorobiphenyl	0.0512		0.05000		102	10	130				
Surr: p-Terphenyl-d14	0.0562		0.05000		112	20	181				

Sample ID: LCS-77196	SampType: LCS	TestCode: SVOC-MSTR	Units: µg/L	Prep Date: 7/25/2024	RunNo: 190174						
Client ID: LCSW	Batch ID: 77196	TestNo: SW8270	SW3510C	Analysis Date: 7/26/2024	SeqNo: 5156225						
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	34.1	5.00	40.0	0	85.2	33	130				
2-Methylnaphthalene	33.8	5.00	40.0	0	84.5	32	130				
Acenaphthene	37.2	5.00	40.0	0	92.9	44	130				
Fluoranthene	39.9	5.00	40.0	0	99.7	63	130				
Surr: 2-Fluorophenol	0.0253		0.05000		50.5	10	130				
Surr: Phenol-d6	0.0167		0.05000		33.5	10	130				
Surr: Nitrobenzene-d5	0.0520		0.05000		104	10	130				
Surr: 2,4,6-Tribromophenol	0.0466		0.05000		93.2	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#: 24071589
30-Jul-24

Client: Columbiana County Health District
Project: EP

BatchID: 77196

Sample ID: LCS-77196	SampType: LCS	TestCode: SVOC-MSTR	Units: µg/L	Prep Date: 7/25/2024	RunNo: 190174						
Client ID: LCSW	Batch ID: 77196	TestNo: SW8270	SW3510C	Analysis Date: 7/26/2024	SeqNo: 5156225						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 2-Fluorobiphenyl	0.0548		0.05000		110	10	130				
Surr: p-Terphenyl-d14	0.0572		0.05000		114	20	181				

Sample ID: LCSD-77196	SampType: LCSD	TestCode: SVOC-MSTR	Units: µg/L	Prep Date: 7/25/2024	RunNo: 190174						
Client ID: LCSS02	Batch ID: 77196	TestNo: SW8270	SW3510C	Analysis Date: 7/26/2024	SeqNo: 5156226						
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	29.4	5.00	40.0	0	73.6	33	130	34.1	14.7	30	
2-Methylnaphthalene	29.6	5.00	40.0	0	74.0	32	130	33.8	13.3	30	
Acenaphthene	32.2	5.00	40.0	0	80.4	44	130	37.2	14.5	30	
Fluoranthene	36.6	5.00	40.0	0	91.4	63	130	39.9	8.61	30	
Surr: 2-Fluorophenol	0.0229		0.05000		45.8	10	130		0		
Surr: Phenol-d6	0.0155		0.05000		30.9	10	130		0		
Surr: Nitrobenzene-d5	0.0444		0.05000		88.9	10	130		0		
Surr: 2,4,6-Tribromophenol	0.0424		0.05000		84.8	19	151		0		
Surr: 2-Fluorobiphenyl	0.0474		0.05000		94.7	10	130		0		
Surr: p-Terphenyl-d14	0.0520		0.05000		104	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#: 24071589
30-Jul-24

Client: Columbiana County Health District
Project: EP

BatchID: R189860

Sample ID: LCS-R189860	SampType: LCS	TestCode: VOC_DW(524) Units: µg/L	Prep Date:	RunNo: 189860							
Client ID: LCSW	Batch ID: R189860	TestNo: E524.2	Analysis Date: 7/23/2024	SeqNo: 5148395							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloropropene	4.86	0.500	5.000	0	97.1	70	130				
1,2,4-Trimethylbenzene	3.99	0.500	5.000	0	79.8	70	130				
Benzene	4.92	0.500	5.000	0	98.5	70	130				
Ethylbenzene	4.33	0.500	5.000	0	86.6	70	130				
m,p-Xylene	8.79	0.500	10.00	0	87.9	70	130				
Naphthalene	3.89	0.500	5.000	0	77.8	70	130				
o-Xylene	4.11	0.500	5.000	0	82.2	70	130				
Toluene	4.25	0.500	5.000	0	85.0	70	130				
Vinyl chloride	5.34	0.500	5.000	0	107	70	130				
Surr: 1,2-Dichlorobenzene-d4	8.64		10.00		86.4	70	130				
Surr: 4-Bromofluorobenzene	8.67		10.00		86.7	70	130				

Sample ID: MB-R189860	SampType: MBLK	TestCode: VOC_DW(524) Units: µg/L	Prep Date:	RunNo: 189860							
Client ID: PBW	Batch ID: R189860	TestNo: E524.2	Analysis Date: 7/23/2024	SeqNo: 5148397							
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#: 24071589
 30-Jul-24

Client: Columbiana County Health District
Project: EP

BatchID: R189860

Sample ID: MB-R189860	SampType: MBLK	TestCode: VOC_DW(524) Units: µg/L	Prep Date:	RunNo: 189860							
Client ID: PBW	Batch ID: R189860	TestNo: E524.2	Analysis Date: 7/23/2024	SeqNo: 5148397							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 1,2-Dichlorobenzene-d4	8.09		10.00		80.9	70	130				
Surr: 4-Bromofluorobenzene	8.85		10.00		88.5	70	130				

Sample ID: 24071166-003CMS	SampType: MS	TestCode: VOC_DW(524) Units: µg/L	Prep Date:	RunNo: 189860							
Client ID: BatchQC	Batch ID: R189860	TestNo: E524.2	Analysis Date: 7/23/2024	SeqNo: 5148401							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1-Dichloropropene	5.22	0.500	5.000	0	104	70	130				
1,2,4-Trimethylbenzene	4.06	0.500	5.000	0	81.1	70	130				
Benzene	5.32	0.500	5.000	0	106	70	130				
Ethylbenzene	4.45	0.500	5.000	0	89.0	70	130				
m,p-Xylene	9.20	0.500	10.00	0	92.0	70	130				
Naphthalene	3.76	0.500	5.000	0	75.3	70	130				
o-Xylene	4.15	0.500	5.000	0	83.1	70	130				
Toluene	4.57	0.500	5.000	0	91.5	70	130				
Vinyl chloride	5.62	0.500	5.000	0	112	70	130				
Surr: 1,2-Dichlorobenzene-d4	8.67		10.00		86.7	70	130				
Surr: 4-Bromofluorobenzene	8.74		10.00		87.4	70	130				

Sample ID: 24071166-003CMSD	SampType: MSD	TestCode: VOC_DW(524) Units: µg/L	Prep Date:	RunNo: 189860							
Client ID: BatchQC	Batch ID: R189860	TestNo: E524.2	Analysis Date: 7/23/2024	SeqNo: 5148402							
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	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#: **24071589**
30-Jul-24

Client: Columbiana County Health District
Project: EP

BatchID: R189860

Sample ID: 24071166-003CMSD	SampType: MSD	TestCode: VOC_DW(524	Units: µg/L	Prep Date:	RunNo: 189860						
Client ID: BatchQC	Batch ID: R189860	TestNo: E524.2	Analysis Date: 7/23/2024	SeqNo: 5148402							
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	5.225	6.25	25	
1,2,4-Trimethylbenzene	4.36	0.500	5.000	0	87.3	70	130	4.057	7.27	25	
Benzene	5.44	0.500	5.000	0	109	70	130	5.323	2.17	25	
Ethylbenzene	4.61	0.500	5.000	0	92.2	70	130	4.451	3.47	25	
m,p-Xylene	9.66	0.500	10.00	0	96.6	70	130	9.198	4.85	25	
Naphthalene	4.04	0.500	5.000	0	80.8	70	130	3.763	7.08	25	
o-Xylene	4.44	0.500	5.000	0	88.7	70	130	4.154	6.57	25	
Toluene	4.55	0.500	5.000	0	90.9	70	130	4.574	0.592	25	
Vinyl chloride	6.16	0.500	5.000	0	123	70	130	5.616	9.30	25	
Surr: 1,2-Dichlorobenzene-d4	9.13		10.00		91.3	70	130		0	25	
Surr: 4-Bromofluorobenzene	9.01		10.00		90.1	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



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QC SUMMARY REPORT

WO#: 24071589
 30-Jul-24

Client: Columbiana County Health District
Project: EP

BatchID: R189902

Sample ID: LCS-R189902	SampType: LCS	TestCode: VOC-MSTR_	Units: µg/L	Prep Date:	RunNo: 189902						
Client ID: LCSW	Batch ID: R189902	TestNo: SW8260	Analysis Date: 7/23/2024	SeqNo: 5149370							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Ethylhexyl acrylate	16.2	5.00	20.00	0	81.1	70	130				
n-Butyl acrylate	15.4	5.00	20.00	0	76.9	70	130				
Surr: 4-Bromofluorobenzene	46.9		50.00		93.9	70	130				
Surr: Dibromofluoromethane	48.7		50.00		97.3	70	130				
Surr: Toluene-d8	50.0		50.00		99.9	70	130				

Sample ID: MB-R189902	SampType: MBLK	TestCode: VOC-MSTR_	Units: µg/L	Prep Date:	RunNo: 189902						
Client ID: PBW	Batch ID: R189902	TestNo: SW8260	Analysis Date: 7/23/2024	SeqNo: 5149373							
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	44.0		50.00		88.0	70	130				
Surr: Dibromofluoromethane	49.2		50.00		98.5	70	130				
Surr: Toluene-d8	49.4		50.00		98.8	70	130				

Sample ID: 24071591-005DMS	SampType: MS	TestCode: VOC-MSTR_	Units: µg/L	Prep Date:	RunNo: 189902						
Client ID: BatchQC	Batch ID: R189902	TestNo: SW8260	Analysis Date: 7/23/2024	SeqNo: 5149382							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Ethylhexyl acrylate	16.6	5.00	20.00	0	82.9	70	130				
n-Butyl acrylate	17.4	5.00	20.00	0	87.1	70	130				
Surr: 4-Bromofluorobenzene	47.8		50.00		95.7	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#: **24071589**
30-Jul-24

Client: Columbiana County Health District
Project: EP

BatchID: R189902

Sample ID: 24071591-005DMS	SampType: MS	TestCode: VOC-MSTR_	Units: µg/L	Prep Date:	RunNo: 189902						
Client ID: BatchQC	Batch ID: R189902	TestNo: SW8260	Analysis Date: 7/23/2024	SeqNo: 5149382							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	47.8		50.00		95.5	70	130				
Surr: Toluene-d8	49.6		50.00		99.2	46.1	154				

Sample ID: 24071591-005DMSD	SampType: MSD	TestCode: VOC-MSTR_	Units: µg/L	Prep Date:	RunNo: 189902						
Client ID: BatchQC	Batch ID: R189902	TestNo: SW8260	Analysis Date: 7/23/2024	SeqNo: 5149383							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Ethylhexyl acrylate	17.6	5.00	20.00	0	88.2	70	130	16.58	6.21	20	
n-Butyl acrylate	17.6	5.00	20.00	0	88.0	70	130	17.43	0.948	20	
Surr: 4-Bromofluorobenzene	46.7		50.00		93.5	70	130		0	20	
Surr: Dibromofluoromethane	48.0		50.00		96.0	70	130		0	20	
Surr: Toluene-d8	48.8		50.00		97.6	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#: 24071589
30-Jul-24

Client: Columbiana County Health District
Project: EP

BatchID: R189909

Sample ID: LCS-R189909	SampType: LCS	TestCode: VOC_DW(524) Units: µg/L	Prep Date:	RunNo: 189909							
Client ID: LCSW	Batch ID: R189909	TestNo: E524.2	Analysis Date: 7/23/2024	SeqNo: 5149455							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloropropene	5.05	0.500	5.000	0	101	70	130				
1,2,4-Trimethylbenzene	4.22	0.500	5.000	0	84.5	70	130				
Benzene	4.98	0.500	5.000	0	99.7	70	130				
Ethylbenzene	4.40	0.500	5.000	0	88.1	70	130				
m,p-Xylene	9.13	0.500	10.00	0	91.3	70	130				
Naphthalene	4.26	0.500	5.000	0	85.1	70	130				
o-Xylene	4.20	0.500	5.000	0	84.1	70	130				
Toluene	4.51	0.500	5.000	0	90.2	70	130				
Vinyl chloride	6.03	0.500	5.000	0	121	70	130				
Surr: 1,2-Dichlorobenzene-d4	8.76		10.00		87.6	70	130				
Surr: 4-Bromofluorobenzene	9.34		10.00		93.4	70	130				

Sample ID: MB-R189909	SampType: MBLK	TestCode: VOC_DW(524) Units: µg/L	Prep Date:	RunNo: 189909							
Client ID: PBW	Batch ID: R189909	TestNo: E524.2	Analysis Date: 7/23/2024	SeqNo: 5149457							
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



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

QC SUMMARY REPORT

WO#: **24071589**
30-Jul-24

Client: Columbiana County Health District
Project: EP

BatchID: R189909

Sample ID: MB-R189909	SampType: MBLK	TestCode: VOC_DW(524) Units: µg/L	Prep Date:	RunNo: 189909							
Client ID: PBW	Batch ID: R189909	TestNo: E524.2	Analysis Date: 7/23/2024	SeqNo: 5149457							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 1,2-Dichlorobenzene-d4	8.49		10.00		84.9	70	130				
Surr: 4-Bromofluorobenzene	9.06		10.00		90.6	70	130				

Sample ID: 24071337-002CDUP	SampType: DUP	TestCode: VOC_DW(524) Units: µg/L	Prep Date:	RunNo: 189909							
Client ID: BatchQC	Batch ID: R189909	TestNo: E524.2	Analysis Date: 7/23/2024	SeqNo: 5149470							
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	8.21		10.00		82.1	70	130		0	20	
Surr: 4-Bromofluorobenzene	8.98		10.00		89.8	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

ND	Not Detected	RL	Reporting Limit
QC	Quality Control	MDL	Method Detection Limit
MB	Method Blank	LOD	Level of Detection
LCS	Laboratory Control Sample	LOQ	Level of Quantitation
LCSD	Laboratory Control Sample Duplicate	PQL	Practical Quantitation Limit
QCS	Quality Control Sample	CRQL	Contract Required Quantitation Limit
DUP	Duplicate	PL	Permit Limit
MS	Matrix Spike	RegLvl	Regulatory Limit
MSD	Matrix Spike Duplicate	MCL	Maximum Contamination Limit
RPD	Relative Percent Different	MinCL	Minimum Compound Limit
ICV	Initial Calibration Verification	RA	Reanalysis
ICB	Initial Calibration Blank	RE	Reextraction
CCV	Continuing Calibration Verification	TIC	Tentatively Identified Compound
CCB	Continuing Calibration Blank	RT	Retention Time
RLC	Reporting Limit Check	CF	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#: **24071589**
30-Jul-24

Client: Columbiana County Health District
Project: EP

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
24071589-001A	PW-824 Field Blank	7/19/2024 9:25:00 AM	Drinking Water	Synthetic Organic Compounds by GC/ (EPA 525.3)		7/24/2024 9:45:00 AM	7/25/2024 4:32:00 PM
				Synthetic Organic Compounds by GC/ (EPA 525.3)		7/24/2024 9:45:00 AM	7/25/2024 12:38:00 PM
24071589-001B				SVOC by 8270E		7/23/2024 5:30:00 PM	7/25/2024 8:24:00 PM
24071589-001C				VOC-GC/MS (524.2)			7/23/2024 11:49:00 AM
24071589-001D				VOC by GC/MS (8260D)			7/23/2024 12:52:00 PM
24071589-002A	PW-824	7/19/2024 9:45:00 AM		Synthetic Organic Compounds by GC/ (EPA 525.3)		7/24/2024 9:45:00 AM	7/25/2024 1:11:00 PM
24071589-002B				SVOC by 8270E		7/23/2024 5:30:00 PM	7/25/2024 8:56:00 PM
24071589-002C				VOC-GC/MS (524.2)			7/23/2024 12:20:00 PM
24071589-002D				VOC by GC/MS (8260D)			7/23/2024 1:15:00 PM
24071589-003A	PW-320	7/19/2024 10:45:00 AM		Synthetic Organic Compounds by GC/ (EPA 525.3)		7/24/2024 9:45:00 AM	7/25/2024 1:45:00 PM
				Synthetic Organic Compounds by GC/ (EPA 525.3)		7/24/2024 9:45:00 AM	7/25/2024 5:05:00 PM
24071589-003B				SVOC by 8270E		7/23/2024 5:30:00 PM	7/25/2024 9:29:00 PM
24071589-003C				VOC-GC/MS (524.2)			7/23/2024 12:52:00 PM
24071589-003D				VOC by GC/MS (8260D)			7/23/2024 1:38:00 PM
24071589-004A	Dup	7/19/2024		Synthetic Organic Compounds by GC/ (EPA 525.3)		7/24/2024 9:45:00 AM	7/25/2024 5:39:00 PM
				Synthetic Organic Compounds by GC/ (EPA 525.3)		7/24/2024 9:45:00 AM	7/25/2024 2:18:00 PM
24071589-004B				SVOC by 8270E		7/22/2024 3:05:00 PM	7/25/2024 3:53:00 AM
24071589-004C				VOC-GC/MS (524.2)			7/23/2024 6:10:00 PM
				VOC-GC/MS (524.2)			7/23/2024 1:24:00 PM
24071589-004D				VOC by GC/MS (8260D)			7/23/2024 2:02:00 PM

Original



DATES REPORT

WO#: 24071589
30-Jul-24

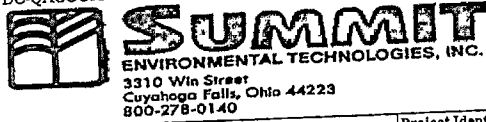
Client: Columbiana County Health District

Project: EP

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
24071589-005A	PW-482	7/19/2024 2:35:00 PM	Drinking Water	Synthetic Organic Compounds by GC/ (EPA 525.3)		7/24/2024 9:45:00 AM	7/25/2024 2:51:00 PM
24071589-005B				SVOC by 8270E		7/25/2024 11:15:00 AM	7/26/2024 7:35:00 PM
24071589-005C				VOC-GC/MS (524.2)			7/23/2024 5:38:00 PM
24071589-005D				VOC by GC/MS (8260D)			7/23/2024 2:25:00 PM
24071589-006A	Trip Blank 1			VOC-GC/MS (524.2)			7/23/2024 10:46:00 AM
24071589-006B				VOC by GC/MS (8260D)			7/23/2024 2:48:00 PM
24071589-007A	Trip Blank 2			VOC-GC/MS (524.2)			7/23/2024 11:17:00 AM
24071589-007B				VOC by GC/MS (8260D)			7/23/2024 3:11:00 PM

Original

DC-QACOC338 Rev. 4.3



Analysis Request / Chain of Custody

Refer to Terms and Conditions at www.settek.com

SET WO NO.: **24071589**
For Summit Environmental Technologies, Inc. use only

Client Name: CCHD		Project Identification: EP								Analytical Parameters and Methods Requested		
Client Phone: 330-424-0272		PO#: CCHD		Quote Number:								
Contact Person: Kevin Summerville		PWS ID: PW-824		Facility ID:								
Client Email Address: ksummerville@colombiana-health.org		Reporting/Accreditation Requirements:										
Print: Kevin Summerville		<input type="checkbox"/> Ohio VAP		<input type="checkbox"/> Ohio EPA Pb, Cu								
Sign: Kevin Summerville		<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: 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			For DW Only: Special Compliance or Routine (S/R)
	PW-824	Field Blank	7/19/24	925	✓		L	8	10	524		
	PW-824	Kitchen Faucet	7/19/24	945	✓		DW	8	10	8270		
										525.2		
										0928		
Relinquished by:		Date	Time	Received by:	Date	Time	Notes / Comments:					
T. Sold		7/22/24	8:50 am	T. Sold	7-22-24	850	524-HCl, 8260-HCl, 525.2-unknown					
T. Sold		7-22-24	1055				C.S. intact 7/22/24					
Received at Summit by:		Date	Time	Carrier	Rush Requested:	Day(s)	Received Temp.:		Other Container:			
CS		7/22/24	1055	Summit	Must be approved by Lab Manager		4.3 °C		Ice Present? <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> MELTED			

4.3+0.0=

DC-QACOC3.38 Rev. 4.3



3310 Win Street
Cuyahoga Falls, Ohio 44223
800-278-0140

Analysis Request / Chain of Custody

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SET
WO
NO.:

For Summit Environmental Technologies, Inc. use only

Client Name CCHD				Project Identification EP				Analytical Parameters and Methods Requested													
City [Redacted]				Report To CCHD				For DW Only: Special Compliance or Routine (S/R)													
Client Phone 330-424-0272				PO #				Quote Number													
Contact Person Kevia Summerville				PWS ID PWS-320				Facility ID													
Client Email Address ksummerville@columbiana-health				Reporting/Accreditation Requirements:																	
Printed By (Print Name and Provide Signature) Karon Summerville				<input type="checkbox"/> Ohio VAP				<input type="checkbox"/> Ohio EPA Pb, Cu													
Sign: [Signature]				<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: 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-320	Kitchen Faucet		7/19/24	1045	✓	DW	8	10	524	8278	525.2	8260								
Relinquished by:						Date	Time	Received by:	Date	Time	Notes / Comments: 524-HCl, 8260-HCl, 525.2-unknown C.S. intact 7/22/24										
[Signature]						7/22/24	8:50am	T. Larch	7-22-24	850											
T. Larch						7-22-24	1055				Sufficient volume provided to run QC? <input 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.:		Other Container:				Ice Present? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> MELTED				
C.F.						7/22/24	1055	Summit			1.0 °C						1.0 to 0.0 =				



SUMMIT
ENVIRONMENTAL TECHNOLOGIES, INC.

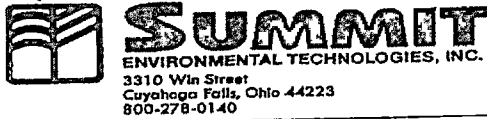
3310 Win Street
Cuyahoga Falls, Ohio 44223
800-278-0140

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 CCHD		Project Identification EP		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 330-424-0272		Report To CCHD							<table border="1"> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>																																																																								
Contact Person Kevin Summerville		PO #		Quote Number																																																																													
Client Email Address ksommerville@columbiana-health.org		PWS ID Dup		Facility ID																																																																													
Sampled By (Print Name and Provide Signature) Kevin Summerville		Reporting/Accreditation Requirements:																																																																															
Print: Kevin Summerville		<input type="checkbox"/> Ohio VAP		<input type="checkbox"/> Ohio EPA Pb, Cu																																																																													
Sign: Kevin Summerville		<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	8270	525.2	8260	For DW Only: Special Compliance or Routine (S/R)																																																																			
	Dup	Kitchen faucet	7/19/24		<input checked="" type="checkbox"/>		DW	8	10	<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:																																																																										
T. Lued		7-22-24	8:50 am	T. Lued	9-22-24	850	524-HCl, 8260-HCl, 525.2-unknown																																																																										
T. Lued		7-22-24	1055				CS intact 7/22/24																																																																										
Received at Summit by:		Date	Time	Carrier	Rush Requested:	Day(s)	Received Temp.:		Other Container:		Ice Present? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> MELTED																																																																						
C. [Signature]		7/22/24	1055	Summit	<input checked="" type="checkbox"/>		1.6 °C		<input checked="" type="checkbox"/>		1.6 + 0.0 =																																																																						



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 CCHD		Project Identification EP		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 330-424-0272		Report To CCHD						For DW Only: Special Compliance or Routine (S/R)	524	8270	525.2	8260						
Contact Person Kevin Summerville		PO #																
Client Email Address ksummerville@columbiana-health.com		PWS ID PW-482																
Print: Kevin Summerville		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	8270	525.2	8260					
	PW-482	Pressure Tank Spigt	7/19/24	1435	✓		DW	8	10	X	X	X	X					
Relinquished by:		Date	Time	Received by:	Date	Time	Notes / Comments: 524-HCl, 8260-HCl, 525.2-unknown CS: intact 7/22/24											
T. Larch		7/22/24	8:50 am	T. Larch	7-22-24	850												
T. Larch		7-22-24	1055				Sufficient volume provided to run QC? <input 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:									
C.S.		7/22/24	1055	Summit	Must be approved by Lab Manager		3.0 °C		Ice Present? <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> MELTED									
														3.6 to 0 =				



Summit Environmental Technologies, Inc.
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 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: 24071589 RcptNo: 1

Logged by:	Christina N. Gemma	7/22/2024 10:55:00 AM	
Completed By:	Christina N. Gemma	7/22/2024 2:12:59 PM	
Reviewed By:	Holly Florea	7/23/2024 6:54:04 AM	

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: 7/22/2024 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:
 No trip blanks received in cooler for PW-320 and Dup.

Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.3	Good	Yes	N/A	7/22/2024	Kevin Summe
2	1.6	Good	Yes	N/A	7/22/2024	Kevin Summe



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Sample Log-In Check List

Client Name: COL-OH-44432

Work Order Number: 24071589

RcptNo: 1

3	3.6	Good	Yes	N/A	7/22/2024	Kevin Summe
---	-----	------	-----	-----	-----------	-------------