



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.: 24040475

Dear Kevin Summerville:

Summit Environmental Technologies, Inc. received 11 sample(s) on 4/5/2024 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,

A handwritten signature in black ink that reads 'Holly Florea'.

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#: **24040475**
16-Apr-24

CLIENT: Columbiana County Health District
Project: EP

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
24040475-001	PW-673b		4/4/2024 2:50:00 PM	4/5/2024 1:00:00 PM	Drinking Water
24040475-001	PW-673b		4/4/2024 2:50:00 PM	4/5/2024 1:00:00 PM	Drinking Water
24040475-001	PW-673b		4/4/2024 2:50:00 PM	4/5/2024 1:00:00 PM	Drinking Water
24040475-001	PW-673b		4/4/2024 2:50:00 PM	4/5/2024 1:00:00 PM	Drinking Water
24040475-002	PW-679		4/4/2024 12:30:00 PM	4/5/2024 1:00:00 PM	Drinking Water
24040475-002	PW-679		4/4/2024 12:30:00 PM	4/5/2024 1:00:00 PM	Drinking Water
24040475-002	PW-679		4/4/2024 12:30:00 PM	4/5/2024 1:00:00 PM	Drinking Water
24040475-002	PW-679		4/4/2024 12:30:00 PM	4/5/2024 1:00:00 PM	Drinking Water
24040475-003	PW-679FB		4/4/2024 12:00:00 PM	4/5/2024 1:00:00 PM	Drinking Water
24040475-003	PW-679FB		4/4/2024 12:00:00 PM	4/5/2024 1:00:00 PM	Drinking Water
24040475-003	PW-679FB		4/4/2024 12:00:00 PM	4/5/2024 1:00:00 PM	Drinking Water
24040475-003	PW-679FB		4/4/2024 12:00:00 PM	4/5/2024 1:00:00 PM	Drinking Water
24040475-004	PW-824		4/4/2024 11:15:00 AM	4/5/2024 1:00:00 PM	Drinking Water
24040475-004	PW-824		4/4/2024 11:15:00 AM	4/5/2024 1:00:00 PM	Drinking Water
24040475-004	PW-824		4/4/2024 11:15:00 AM	4/5/2024 1:00:00 PM	Drinking Water
24040475-004	PW-824		4/4/2024 11:15:00 AM	4/5/2024 1:00:00 PM	Drinking Water
24040475-005	PW-318		4/4/2024 1:20:00 PM	4/5/2024 1:00:00 PM	Drinking Water
24040475-005	PW-318		4/4/2024 1:20:00 PM	4/5/2024 1:00:00 PM	Drinking Water
24040475-005	PW-318		4/4/2024 1:20:00 PM	4/5/2024 1:00:00 PM	Drinking Water
24040475-005	PW-318		4/4/2024 1:20:00 PM	4/5/2024 1:00:00 PM	Drinking Water
24040475-006	PW-430		4/4/2024 10:00:00 AM	4/5/2024 1:00:00 PM	Drinking Water
24040475-006	PW-430		4/4/2024 10:00:00 AM	4/5/2024 1:00:00 PM	Drinking Water
24040475-006	PW-430		4/4/2024 10:00:00 AM	4/5/2024 1:00:00 PM	Drinking Water



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Workorder
Sample Summary
 WO#: **24040475**
16-Apr-24

CLIENT: Columbiana County Health District
Project: EP

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
24040475-006	PW-430		4/4/2024 10:00:00 AM	4/5/2024 1:00:00 PM	Drinking Water
24040475-007	Trip Blank 1			4/5/2024 1:00:00 PM	Drinking Water
24040475-007	Trip Blank 1			4/5/2024 1:00:00 PM	Drinking Water
24040475-008	Trip Blank 2			4/5/2024 1:00:00 PM	Drinking Water
24040475-008	Trip Blank 2			4/5/2024 1:00:00 PM	Drinking Water
24040475-009	Trip Blank 3			4/5/2024 1:00:00 PM	Drinking Water
24040475-009	Trip Blank 3			4/5/2024 1:00:00 PM	Drinking Water
24040475-010	Trip Blank 4			4/5/2024 1:00:00 PM	Drinking Water
24040475-010	Trip Blank 4			4/5/2024 1:00:00 PM	Drinking Water
24040475-011	Trip Blank 5			4/5/2024 1:00:00 PM	Drinking Water
24040475-011	Trip Blank 5			4/5/2024 1:00:00 PM	Drinking Water



Case Narrative

WO#: 24040475
Date: 4/16/2024

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:

24040475: 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:

24040475-004D VOC-MSTR_NPW(8260D): Corresponding MS/MSD exhibits outlying recoveries and high RPD. The method is in control as indicated by the Laboratory Control Sample (LCS)

24040475-004B SVOC-MSTR_NPW(8270E): Corresponding MS/MSD demonstrated high RPD for several analytes. Individual recoveries are within acceptable limits.

Original



SUMMIT
ENVIRONMENTAL TECHNOLOGIES, INC.
Analytical Laboratories

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Case Narrative

WO#: 24040475
Date: 4/16/2024

CLIENT: Columbiana County Health District

Project: EP

24040475-001 through 006 SVOC_DW(525.3): MB-74531 exhibited a detection for Acenaphthylene, confirmed by reanalysis. Sample is ND for Acenaphthylene.

Original



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Analytical Report

(consolidated)

WO#: 24040475

Date Reported: 4/16/2024

CLIENT: Columbiana County Health District **Collection Date:** 4/4/2024 2:50:00 PM
Project: EP
Lab ID: 24040475-001 **Matrix:** DRINKING WATER
Client Sample ID: PW-673b

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	0.0966	MB+	µg/L	1	4/14/2024 8:07:00 PM
Anthracene	ND	0.0966		µg/L	1	4/14/2024 8:07:00 PM
Benz(a)anthracene	ND	0.0966		µg/L	1	4/14/2024 8:07:00 PM
Benzo(a)pyrene	ND	0.0966		µg/L	1	4/14/2024 8:07:00 PM
Benzo(b)fluoranthene	ND	0.0966		µg/L	1	4/14/2024 8:07:00 PM
Benzo(g,h,i)perylene	ND	0.0966		µg/L	1	4/14/2024 8:07:00 PM
Benzo(k)fluoranthene	ND	0.0966		µg/L	1	4/14/2024 8:07:00 PM
Chrysene	ND	0.0966		µg/L	1	4/14/2024 8:07:00 PM
Dibenz(a,h)anthracene	ND	0.0966		µg/L	1	4/14/2024 8:07:00 PM
Fluorene	ND	0.0966		µg/L	1	4/14/2024 8:07:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.966		µg/L	1	4/14/2024 8:07:00 PM
Phenanthrene	ND	0.0966		µg/L	1	4/14/2024 8:07:00 PM
Pyrene	ND	0.0966		µg/L	1	4/14/2024 8:07:00 PM
Surr: 1,3-Dimethyl-2-nitrobenzene	79.2	70 - 130		%Rec	1	4/14/2024 8:07:00 PM
Surr: Benzo(a)pyrene-d12	72.6	70 - 130		%Rec	1	4/14/2024 8:07:00 PM
Surr: Triphenyl phosphate	101	70 - 130		%Rec	1	4/14/2024 8:07:00 PM
SVOC BY SW8270E				SW8270	SW3510C	Analyst: SAM
SVOC BY 8270E						
1-Methylnaphthalene	ND	0.962		µg/L	1	4/12/2024 3:32:00 AM
2-Butoxyethanol	ND	28.8		µg/L	1	4/12/2024 3:32:00 AM
2-Methylnaphthalene	ND	0.962		µg/L	1	4/12/2024 3:32:00 AM
Acenaphthene	ND	0.962		µg/L	1	4/12/2024 3:32:00 AM
Fluoranthene	ND	0.962		µg/L	1	4/12/2024 3:32:00 AM
Surr: Nitrobenzene-d5	66.7	10 - 130		%Rec	1	4/12/2024 3:32:00 AM
Surr: 2-Fluorobiphenyl	68.4	10 - 130		%Rec	1	4/12/2024 3:32:00 AM
Surr: p-Terphenyl-d14	88.9	20 - 181		%Rec	1	4/12/2024 3:32:00 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	4/8/2024 1:04:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	4/8/2024 1:04:00 PM
Benzene	ND	0.500		µg/L	1	4/8/2024 1:04:00 PM
Ethylbenzene	ND	0.500		µg/L	1	4/8/2024 1:04:00 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#: **24040475**

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

CLIENT: Columbiana County Health District

Collection Date: 4/4/2024 2:50:00 PM

Project: EP

Lab ID: 24040475-001

Matrix: DRINKING WATER

Client Sample ID: PW-673b

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	4/8/2024 1:04:00 PM
Naphthalene	ND	0.500		µg/L	1	4/8/2024 1:04:00 PM
o-Xylene	ND	0.500		µg/L	1	4/8/2024 1:04:00 PM
Toluene	ND	0.500		µg/L	1	4/8/2024 1:04:00 PM
Vinyl chloride	ND	0.500		µg/L	1	4/8/2024 1:04:00 PM
Surr: 1,2-Dichlorobenzene-d4	94.6	70 - 130		%Rec	1	4/8/2024 1:04:00 PM
Surr: 4-Bromofluorobenzene	97.9	70 - 130		%Rec	1	4/8/2024 1:04:00 PM
VOC ANALYSIS (8260D)				SW8260		Analyst: ZDA
VOC BY GC/MS (8260D)						
2-Ethylhexyl acrylate	ND	5.00		µg/L	1	4/8/2024 10:47:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	4/8/2024 10:47:00 PM
Surr: 4-Bromofluorobenzene	94.9	70 - 130		%Rec	1	4/8/2024 10:47:00 PM
Surr: Dibromofluoromethane	103	70 - 130		%Rec	1	4/8/2024 10:47:00 PM
Surr: Toluene-d8	97.8	70 - 130		%Rec	1	4/8/2024 10:47:00 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#: 24040475

Date Reported: 4/16/2024

CLIENT: Columbiana County Health District **Collection Date:** 4/4/2024 12:30:00 PM
Project: EP
Lab ID: 24040475-002 **Matrix:** DRINKING WATER
Client Sample ID: PW-679

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	MB+	µg/L	1	4/14/2024 8:41:00 PM
Anthracene	ND	0.0971		µg/L	1	4/14/2024 8:41:00 PM
Benz(a)anthracene	ND	0.0971		µg/L	1	4/14/2024 8:41:00 PM
Benzo(a)pyrene	ND	0.0971		µg/L	1	4/14/2024 8:41:00 PM
Benzo(b)fluoranthene	ND	0.0971		µg/L	1	4/14/2024 8:41:00 PM
Benzo(g,h,i)perylene	ND	0.0971		µg/L	1	4/14/2024 8:41:00 PM
Benzo(k)fluoranthene	ND	0.0971		µg/L	1	4/14/2024 8:41:00 PM
Chrysene	ND	0.0971		µg/L	1	4/14/2024 8:41:00 PM
Dibenz(a,h)anthracene	ND	0.0971		µg/L	1	4/14/2024 8:41:00 PM
Fluorene	ND	0.0971		µg/L	1	4/14/2024 8:41:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.971		µg/L	1	4/14/2024 8:41:00 PM
Phenanthrene	ND	0.0971		µg/L	1	4/14/2024 8:41:00 PM
Pyrene	ND	0.0971		µg/L	1	4/14/2024 8:41:00 PM
Surr: 1,3-Dimethyl-2-nitrobenzene	88.6	70 - 130		%Rec	1	4/14/2024 8:41:00 PM
Surr: Benzo(a)pyrene-d12	86.6	70 - 130		%Rec	1	4/14/2024 8:41:00 PM
Surr: Triphenyl phosphate	107	70 - 130		%Rec	1	4/14/2024 8:41:00 PM
SVOC BY SW8270E				SW8270	SW3510C	Analyst: SAM
SVOC BY 8270E						
1-Methylnaphthalene	ND	0.962		µg/L	1	4/12/2024 4:03:00 AM
2-Butoxyethanol	ND	28.8		µg/L	1	4/12/2024 4:03:00 AM
2-Methylnaphthalene	ND	0.962		µg/L	1	4/12/2024 4:03:00 AM
Acenaphthene	ND	0.962		µg/L	1	4/12/2024 4:03:00 AM
Fluoranthene	ND	0.962		µg/L	1	4/12/2024 4:03:00 AM
Surr: Nitrobenzene-d5	60.8	10 - 130		%Rec	1	4/12/2024 4:03:00 AM
Surr: 2-Fluorobiphenyl	62.9	10 - 130		%Rec	1	4/12/2024 4:03:00 AM
Surr: p-Terphenyl-d14	80.2	20 - 181		%Rec	1	4/12/2024 4:03:00 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	4/8/2024 1:36:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	4/8/2024 1:36:00 PM
Benzene	ND	0.500		µg/L	1	4/8/2024 1:36:00 PM
Ethylbenzene	ND	0.500		µg/L	1	4/8/2024 1:36:00 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#: 24040475

Date Reported: 4/16/2024

CLIENT: Columbiana County Health District **Collection Date:** 4/4/2024 12:30:00 PM
Project: EP
Lab ID: 24040475-002 **Matrix:** DRINKING WATER
Client Sample ID: PW-679

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	4/8/2024 1:36:00 PM
Naphthalene	ND	0.500		µg/L	1	4/8/2024 1:36:00 PM
o-Xylene	ND	0.500		µg/L	1	4/8/2024 1:36:00 PM
Toluene	ND	0.500		µg/L	1	4/8/2024 1:36:00 PM
Vinyl chloride	ND	0.500		µg/L	1	4/8/2024 1:36:00 PM
Surr: 1,2-Dichlorobenzene-d4	91.0	70 - 130		%Rec	1	4/8/2024 1:36:00 PM
Surr: 4-Bromofluorobenzene	96.9	70 - 130		%Rec	1	4/8/2024 1:36:00 PM
VOC ANALYSIS (8260D)				SW8260	Analyst: ZDA	
VOC BY GC/MS (8260D)						
2-Ethylhexyl acrylate	ND	5.00		µg/L	1	4/8/2024 11:10:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	4/8/2024 11:10:00 PM
Surr: 4-Bromofluorobenzene	94.7	70 - 130		%Rec	1	4/8/2024 11:10:00 PM
Surr: Dibromofluoromethane	103	70 - 130		%Rec	1	4/8/2024 11:10:00 PM
Surr: Toluene-d8	99.2	70 - 130		%Rec	1	4/8/2024 11:10:00 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#: 24040475

Date Reported: 4/16/2024

CLIENT: Columbiana County Health District **Collection Date:** 4/4/2024 12:00:00 PM
Project: EP
Lab ID: 24040475-003 **Matrix:** DRINKING WATER
Client Sample ID: PW-679FB

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	MB+	µg/L	1	4/14/2024 9:14:00 PM
Anthracene	ND	0.0971		µg/L	1	4/14/2024 9:14:00 PM
Benz(a)anthracene	ND	0.0971		µg/L	1	4/14/2024 9:14:00 PM
Benzo(a)pyrene	ND	0.0971		µg/L	1	4/14/2024 9:14:00 PM
Benzo(b)fluoranthene	ND	0.0971		µg/L	1	4/14/2024 9:14:00 PM
Benzo(g,h,i)perylene	ND	0.0971		µg/L	1	4/14/2024 9:14:00 PM
Benzo(k)fluoranthene	ND	0.0971		µg/L	1	4/14/2024 9:14:00 PM
Chrysene	ND	0.0971		µg/L	1	4/14/2024 9:14:00 PM
Dibenz(a,h)anthracene	ND	0.0971		µg/L	1	4/14/2024 9:14:00 PM
Fluorene	ND	0.0971		µg/L	1	4/14/2024 9:14:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.971		µg/L	1	4/14/2024 9:14:00 PM
Phenanthrene	ND	0.0971		µg/L	1	4/14/2024 9:14:00 PM
Pyrene	ND	0.0971		µg/L	1	4/14/2024 9:14:00 PM
Surr: 1,3-Dimethyl-2-nitrobenzene	85.8	70 - 130		%Rec	1	4/14/2024 9:14:00 PM
Surr: Benzo(a)pyrene-d12	94.4	70 - 130		%Rec	1	4/14/2024 9:14:00 PM
Surr: Triphenyl phosphate	113	70 - 130		%Rec	1	4/14/2024 9:14:00 PM
SVOC BY SW8270E				SW8270	SW3510C	Analyst: SAM
SVOC BY 8270E						
1-Methylnaphthalene	ND	0.980		µg/L	1	4/12/2024 4:35:00 AM
2-Butoxyethanol	ND	29.4		µg/L	1	4/12/2024 4:35:00 AM
2-Methylnaphthalene	ND	0.980		µg/L	1	4/12/2024 4:35:00 AM
Acenaphthene	ND	0.980		µg/L	1	4/12/2024 4:35:00 AM
Fluoranthene	1.00	0.980		µg/L	1	4/12/2024 4:35:00 AM
Surr: Nitrobenzene-d5	61.7	10 - 130		%Rec	1	4/12/2024 4:35:00 AM
Surr: 2-Fluorobiphenyl	63.4	10 - 130		%Rec	1	4/12/2024 4:35:00 AM
Surr: p-Terphenyl-d14	94.1	20 - 181		%Rec	1	4/12/2024 4:35:00 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	4/8/2024 2:08:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	4/8/2024 2:08:00 PM
Benzene	ND	0.500		µg/L	1	4/8/2024 2:08:00 PM
Ethylbenzene	ND	0.500		µg/L	1	4/8/2024 2:08:00 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#: 24040475

Date Reported: 4/16/2024

CLIENT: Columbiana County Health District **Collection Date:** 4/4/2024 12:00:00 PM
Project: EP
Lab ID: 24040475-003 **Matrix:** DRINKING WATER
Client Sample ID: PW-679FB

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	4/8/2024 2:08:00 PM
Naphthalene	ND	0.500		µg/L	1	4/8/2024 2:08:00 PM
o-Xylene	ND	0.500		µg/L	1	4/8/2024 2:08:00 PM
Toluene	ND	0.500		µg/L	1	4/8/2024 2:08:00 PM
Vinyl chloride	ND	0.500		µg/L	1	4/8/2024 2:08:00 PM
Surr: 1,2-Dichlorobenzene-d4	96.9	70 - 130		%Rec	1	4/8/2024 2:08:00 PM
Surr: 4-Bromofluorobenzene	97.6	70 - 130		%Rec	1	4/8/2024 2:08:00 PM
VOC ANALYSIS (8260D)				SW8260		Analyst: ZDA
VOC BY GC/MS (8260D)						
2-Ethylhexyl acrylate	ND	5.00		µg/L	1	4/8/2024 11:34:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	4/8/2024 11:34:00 PM
Surr: 4-Bromofluorobenzene	92.7	70 - 130		%Rec	1	4/8/2024 11:34:00 PM
Surr: Dibromofluoromethane	101	70 - 130		%Rec	1	4/8/2024 11:34:00 PM
Surr: Toluene-d8	97.0	70 - 130		%Rec	1	4/8/2024 11:34:00 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#: 24040475

Date Reported: 4/16/2024

CLIENT: Columbiana County Health District **Collection Date:** 4/4/2024 11:15:00 AM
Project: EP
Lab ID: 24040475-004 **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	MB+	µg/L	1	4/14/2024 9:47:00 PM
Anthracene	ND	0.0980		µg/L	1	4/14/2024 9:47:00 PM
Benz(a)anthracene	ND	0.0980		µg/L	1	4/14/2024 9:47:00 PM
Benzo(a)pyrene	ND	0.0980		µg/L	1	4/14/2024 9:47:00 PM
Benzo(b)fluoranthene	ND	0.0980		µg/L	1	4/14/2024 9:47:00 PM
Benzo(g,h,i)perylene	ND	0.0980		µg/L	1	4/14/2024 9:47:00 PM
Benzo(k)fluoranthene	ND	0.0980		µg/L	1	4/14/2024 9:47:00 PM
Chrysene	ND	0.0980		µg/L	1	4/14/2024 9:47:00 PM
Dibenz(a,h)anthracene	ND	0.0980		µg/L	1	4/14/2024 9:47:00 PM
Fluorene	ND	0.0980		µg/L	1	4/14/2024 9:47:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.980		µg/L	1	4/14/2024 9:47:00 PM
Phenanthrene	ND	0.0980		µg/L	1	4/14/2024 9:47:00 PM
Pyrene	ND	0.0980		µg/L	1	4/14/2024 9:47:00 PM
Surr: 1,3-Dimethyl-2-nitrobenzene	90.4	70 - 130		%Rec	1	4/14/2024 9:47:00 PM
Surr: Benzo(a)pyrene-d12	87.4	70 - 130		%Rec	1	4/14/2024 9:47:00 PM
Surr: Triphenyl phosphate	109	70 - 130		%Rec	1	4/14/2024 9:47:00 PM
SVOC BY SW8270E				SW8270	SW3510C	Analyst: SAM
SVOC BY 8270E						
1-Methylnaphthalene	ND	0.971	QMR	µg/L	1	4/12/2024 5:06:00 AM
2-Butoxyethanol	ND	29.1		µg/L	1	4/12/2024 5:06:00 AM
2-Methylnaphthalene	ND	0.971	QMR	µg/L	1	4/12/2024 5:06:00 AM
Acenaphthene	ND	0.971	QMR	µg/L	1	4/12/2024 5:06:00 AM
Fluoranthene	ND	0.971	QMR	µg/L	1	4/12/2024 5:06:00 AM
Surr: Nitrobenzene-d5	60.0	10 - 130		%Rec	1	4/12/2024 5:06:00 AM
Surr: 2-Fluorobiphenyl	61.5	10 - 130		%Rec	1	4/12/2024 5:06:00 AM
Surr: p-Terphenyl-d14	85.5	20 - 181		%Rec	1	4/12/2024 5:06:00 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	4/8/2024 2:40:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	4/8/2024 2:40:00 PM
Benzene	ND	0.500		µg/L	1	4/8/2024 2:40:00 PM
Ethylbenzene	ND	0.500		µg/L	1	4/8/2024 2:40:00 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#: 24040475

Date Reported: 4/16/2024

CLIENT: Columbiana County Health District **Collection Date:** 4/4/2024 11:15:00 AM
Project: EP
Lab ID: 24040475-004 **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	4/8/2024 2:40:00 PM
Naphthalene	ND	0.500		µg/L	1	4/8/2024 2:40:00 PM
o-Xylene	ND	0.500		µg/L	1	4/8/2024 2:40:00 PM
Toluene	ND	0.500		µg/L	1	4/8/2024 2:40:00 PM
Vinyl chloride	ND	0.500		µg/L	1	4/8/2024 2:40:00 PM
Surr: 1,2-Dichlorobenzene-d4	97.0	70 - 130		%Rec	1	4/8/2024 2:40:00 PM
Surr: 4-Bromofluorobenzene	94.7	70 - 130		%Rec	1	4/8/2024 2:40:00 PM
VOC ANALYSIS (8260D)				SW8260		Analyst: ZDA
VOC BY GC/MS (8260D)						
2-Ethylhexyl acrylate	ND	5.00QM+QMF		µg/L	1	4/8/2024 7:12:00 PM
n-Butyl acrylate	ND	5.00QM+QMF		µg/L	1	4/8/2024 7:12:00 PM
Surr: 4-Bromofluorobenzene	95.8	70 - 130		%Rec	1	4/8/2024 7:12:00 PM
Surr: Dibromofluoromethane	103	70 - 130		%Rec	1	4/8/2024 7:12:00 PM
Surr: Toluene-d8	100	70 - 130		%Rec	1	4/8/2024 7:12:00 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#: 24040475

Date Reported: 4/16/2024

CLIENT: Columbiana County Health District **Collection Date:** 4/4/2024 1:20:00 PM
Project: EP
Lab ID: 24040475-005 **Matrix:** DRINKING WATER
Client Sample ID: PW-318

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	MB+	µg/L	1	4/14/2024 11:27:00 PM
Anthracene	ND	0.0980		µg/L	1	4/14/2024 11:27:00 PM
Benz(a)anthracene	ND	0.0980		µg/L	1	4/14/2024 11:27:00 PM
Benzo(a)pyrene	ND	0.0980		µg/L	1	4/14/2024 11:27:00 PM
Benzo(b)fluoranthene	ND	0.0980		µg/L	1	4/14/2024 11:27:00 PM
Benzo(g,h,i)perylene	ND	0.0980		µg/L	1	4/14/2024 11:27:00 PM
Benzo(k)fluoranthene	ND	0.0980		µg/L	1	4/14/2024 11:27:00 PM
Chrysene	ND	0.0980		µg/L	1	4/14/2024 11:27:00 PM
Dibenz(a,h)anthracene	ND	0.0980		µg/L	1	4/14/2024 11:27:00 PM
Fluorene	ND	0.0980		µg/L	1	4/14/2024 11:27:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.980		µg/L	1	4/14/2024 11:27:00 PM
Phenanthrene	ND	0.0980		µg/L	1	4/14/2024 11:27:00 PM
Pyrene	ND	0.0980		µg/L	1	4/14/2024 11:27:00 PM
Surr: 1,3-Dimethyl-2-nitrobenzene	83.2	70 - 130		%Rec	1	4/14/2024 11:27:00 PM
Surr: Benzo(a)pyrene-d12	79.2	70 - 130		%Rec	1	4/14/2024 11:27:00 PM
Surr: Triphenyl phosphate	109	70 - 130		%Rec	1	4/14/2024 11:27:00 PM
SVOC BY SW8270E				SW8270	SW3510C	Analyst: SAM
SVOC BY 8270E						
1-Methylnaphthalene	ND	0.971		µg/L	1	4/12/2024 6:41:00 AM
2-Butoxyethanol	ND	29.1		µg/L	1	4/12/2024 6:41:00 AM
2-Methylnaphthalene	ND	0.971		µg/L	1	4/12/2024 6:41:00 AM
Acenaphthene	ND	0.971		µg/L	1	4/12/2024 6:41:00 AM
Fluoranthene	ND	0.971		µg/L	1	4/12/2024 6:41:00 AM
Surr: Nitrobenzene-d5	65.8	10 - 130		%Rec	1	4/12/2024 6:41:00 AM
Surr: 2-Fluorobiphenyl	68.4	10 - 130		%Rec	1	4/12/2024 6:41:00 AM
Surr: p-Terphenyl-d14	90.9	20 - 181		%Rec	1	4/12/2024 6:41:00 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	4/8/2024 4:48:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	4/8/2024 4:48:00 PM
Benzene	ND	0.500		µg/L	1	4/8/2024 4:48:00 PM
Ethylbenzene	ND	0.500		µg/L	1	4/8/2024 4:48:00 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#: 24040475

Date Reported: 4/16/2024

CLIENT: Columbiana County Health District **Collection Date:** 4/4/2024 1:20:00 PM
Project: EP
Lab ID: 24040475-005 **Matrix:** DRINKING WATER
Client Sample ID: PW-318

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	4/8/2024 4:48:00 PM
Naphthalene	ND	0.500		µg/L	1	4/8/2024 4:48:00 PM
o-Xylene	ND	0.500		µg/L	1	4/8/2024 4:48:00 PM
Toluene	ND	0.500		µg/L	1	4/8/2024 4:48:00 PM
Vinyl chloride	ND	0.500		µg/L	1	4/8/2024 4:48:00 PM
Surr: 1,2-Dichlorobenzene-d4	96.4	70 - 130		%Rec	1	4/8/2024 4:48:00 PM
Surr: 4-Bromofluorobenzene	95.3	70 - 130		%Rec	1	4/8/2024 4:48:00 PM
VOC ANALYSIS (8260D)				SW8260	Analyst: ZDA	
VOC BY GC/MS (8260D)						
2-Ethylhexyl acrylate	ND	5.00		µg/L	1	4/8/2024 11:58:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	4/8/2024 11:58:00 PM
Surr: 4-Bromofluorobenzene	95.3	70 - 130		%Rec	1	4/8/2024 11:58:00 PM
Surr: Dibromofluoromethane	102	70 - 130		%Rec	1	4/8/2024 11:58:00 PM
Surr: Toluene-d8	98.0	70 - 130		%Rec	1	4/8/2024 11:58:00 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#: 24040475

Date Reported: 4/16/2024

CLIENT: Columbiana County Health District **Collection Date:** 4/4/2024 10:00:00 AM
Project: EP
Lab ID: 24040475-006 **Matrix:** DRINKING WATER
Client Sample ID: PW-430

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	MB+	µg/L	1	4/15/2024 12:01:00 AM
Anthracene	ND	0.0980		µg/L	1	4/15/2024 12:01:00 AM
Benz(a)anthracene	ND	0.0980		µg/L	1	4/15/2024 12:01:00 AM
Benzo(a)pyrene	ND	0.0980		µg/L	1	4/15/2024 12:01:00 AM
Benzo(b)fluoranthene	ND	0.0980		µg/L	1	4/15/2024 12:01:00 AM
Benzo(g,h,i)perylene	ND	0.0980		µg/L	1	4/15/2024 12:01:00 AM
Benzo(k)fluoranthene	ND	0.0980		µg/L	1	4/15/2024 12:01:00 AM
Chrysene	ND	0.0980		µg/L	1	4/15/2024 12:01:00 AM
Dibenz(a,h)anthracene	ND	0.0980		µg/L	1	4/15/2024 12:01:00 AM
Fluorene	ND	0.0980		µg/L	1	4/15/2024 12:01:00 AM
Indeno(1,2,3-cd)pyrene	ND	0.980		µg/L	1	4/15/2024 12:01:00 AM
Phenanthrene	ND	0.0980		µg/L	1	4/15/2024 12:01:00 AM
Pyrene	ND	0.0980		µg/L	1	4/15/2024 12:01:00 AM
Surr: 1,3-Dimethyl-2-nitrobenzene	79.4	70 - 130		%Rec	1	4/15/2024 12:01:00 AM
Surr: Benzo(a)pyrene-d12	99.0	70 - 130		%Rec	1	4/15/2024 12:01:00 AM
Surr: Triphenyl phosphate	110	70 - 130		%Rec	1	4/15/2024 12:01:00 AM
SVOC BY SW8270E				SW8270	SW3510C	Analyst: SAM
SVOC BY 8270E						
1-Methylnaphthalene	ND	0.980		µg/L	1	4/12/2024 7:12:00 AM
2-Butoxyethanol	ND	29.4		µg/L	1	4/12/2024 7:12:00 AM
2-Methylnaphthalene	ND	0.980		µg/L	1	4/12/2024 7:12:00 AM
Acenaphthene	ND	0.980		µg/L	1	4/12/2024 7:12:00 AM
Fluoranthene	ND	0.980		µg/L	1	4/12/2024 7:12:00 AM
Surr: Nitrobenzene-d5	53.4	10 - 130		%Rec	1	4/12/2024 7:12:00 AM
Surr: 2-Fluorobiphenyl	55.2	10 - 130		%Rec	1	4/12/2024 7:12:00 AM
Surr: p-Terphenyl-d14	82.0	20 - 181		%Rec	1	4/12/2024 7:12:00 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	4/8/2024 5:20:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	4/8/2024 5:20:00 PM
Benzene	ND	0.500		µg/L	1	4/8/2024 5:20:00 PM
Ethylbenzene	ND	0.500		µg/L	1	4/8/2024 5:20:00 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#: **24040475**

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

CLIENT: Columbiana County Health District **Collection Date:** 4/4/2024 10:00:00 AM
Project: EP
Lab ID: 24040475-006 **Matrix:** DRINKING WATER
Client Sample ID: PW-430

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	4/8/2024 5:20:00 PM
Naphthalene	ND	0.500		µg/L	1	4/8/2024 5:20:00 PM
o-Xylene	ND	0.500		µg/L	1	4/8/2024 5:20:00 PM
Toluene	ND	0.500		µg/L	1	4/8/2024 5:20:00 PM
Vinyl chloride	ND	0.500		µg/L	1	4/8/2024 5:20:00 PM
Surr: 1,2-Dichlorobenzene-d4	97.4	70 - 130		%Rec	1	4/8/2024 5:20:00 PM
Surr: 4-Bromofluorobenzene	98.5	70 - 130		%Rec	1	4/8/2024 5:20:00 PM
VOC ANALYSIS (8260D)				SW8260		Analyst: ZDA
VOC BY GC/MS (8260D)						
2-Ethylhexyl acrylate	ND	5.00		µg/L	1	4/9/2024 12:22:00 AM
n-Butyl acrylate	ND	5.00		µg/L	1	4/9/2024 12:22:00 AM
Surr: 4-Bromofluorobenzene	93.3	70 - 130		%Rec	1	4/9/2024 12:22:00 AM
Surr: Dibromofluoromethane	100	70 - 130		%Rec	1	4/9/2024 12:22:00 AM
Surr: Toluene-d8	96.7	70 - 130		%Rec	1	4/9/2024 12:22:00 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#: 24040475

Date Reported: 4/16/2024

CLIENT: Columbiana County Health District

Collection Date:

Project: EP

Lab ID: 24040475-007

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	4/8/2024 5:52:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	4/8/2024 5:52:00 PM
Benzene	ND	0.500		µg/L	1	4/8/2024 5:52:00 PM
Ethylbenzene	ND	0.500		µg/L	1	4/8/2024 5:52:00 PM
m,p-Xylene	ND	0.500		µg/L	1	4/8/2024 5:52:00 PM
Naphthalene	ND	0.500		µg/L	1	4/8/2024 5:52:00 PM
o-Xylene	ND	0.500		µg/L	1	4/8/2024 5:52:00 PM
Toluene	ND	0.500		µg/L	1	4/8/2024 5:52:00 PM
Vinyl chloride	ND	0.500		µg/L	1	4/8/2024 5:52:00 PM
Surr: 1,2-Dichlorobenzene-d4	95.1	70 - 130		%Rec	1	4/8/2024 5:52:00 PM
Surr: 4-Bromofluorobenzene	95.7	70 - 130		%Rec	1	4/8/2024 5:52:00 PM

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

SW8260

Analyst: ZDA

2-Ethylhexyl acrylate	ND	5.00		µg/L	1	4/8/2024 8:47:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	4/8/2024 8:47:00 PM
Surr: 4-Bromofluorobenzene	94.2	70 - 130		%Rec	1	4/8/2024 8:47:00 PM
Surr: Dibromofluoromethane	102	70 - 130		%Rec	1	4/8/2024 8:47:00 PM
Surr: Toluene-d8	97.7	70 - 130		%Rec	1	4/8/2024 8:47:00 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#: 24040475

Date Reported: 4/16/2024

CLIENT: Columbiana County Health District

Collection Date:

Project: EP

Lab ID: 24040475-008

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	4/8/2024 6:24:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	4/8/2024 6:24:00 PM
Benzene	ND	0.500		µg/L	1	4/8/2024 6:24:00 PM
Ethylbenzene	ND	0.500		µg/L	1	4/8/2024 6:24:00 PM
m,p-Xylene	ND	0.500		µg/L	1	4/8/2024 6:24:00 PM
Naphthalene	ND	0.500		µg/L	1	4/8/2024 6:24:00 PM
o-Xylene	ND	0.500		µg/L	1	4/8/2024 6:24:00 PM
Toluene	ND	0.500		µg/L	1	4/8/2024 6:24:00 PM
Vinyl chloride	ND	0.500		µg/L	1	4/8/2024 6:24:00 PM
Surr: 1,2-Dichlorobenzene-d4	93.9	70 - 130		%Rec	1	4/8/2024 6:24:00 PM
Surr: 4-Bromofluorobenzene	93.2	70 - 130		%Rec	1	4/8/2024 6:24:00 PM
VOC ANALYSIS (8260D)				SW8260		Analyst: ZDA
VOC BY GC/MS (8260D)						
2-Ethylhexyl acrylate	ND	5.00		µg/L	1	4/8/2024 9:11:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	4/8/2024 9:11:00 PM
Surr: 4-Bromofluorobenzene	95.1	70 - 130		%Rec	1	4/8/2024 9:11:00 PM
Surr: Dibromofluoromethane	103	70 - 130		%Rec	1	4/8/2024 9:11:00 PM
Surr: Toluene-d8	97.5	70 - 130		%Rec	1	4/8/2024 9:11:00 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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Analytical Report

(consolidated)

WO#: 24040475

Date Reported: 4/16/2024

CLIENT: Columbiana County Health District

Collection Date:

Project: EP

Lab ID: 24040475-009

Matrix: DRINKING WATER

Client Sample ID: Trip Blank 3

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

E524.2

Analyst: ALS

1,1-Dichloropropene	ND	0.500		µg/L	1	4/8/2024 6:56:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	4/8/2024 6:56:00 PM
Benzene	ND	0.500		µg/L	1	4/8/2024 6:56:00 PM
Ethylbenzene	ND	0.500		µg/L	1	4/8/2024 6:56:00 PM
m,p-Xylene	ND	0.500		µg/L	1	4/8/2024 6:56:00 PM
Naphthalene	ND	0.500		µg/L	1	4/8/2024 6:56:00 PM
o-Xylene	ND	0.500		µg/L	1	4/8/2024 6:56:00 PM
Toluene	ND	0.500		µg/L	1	4/8/2024 6:56:00 PM
Vinyl chloride	ND	0.500		µg/L	1	4/8/2024 6:56:00 PM
Surr: 1,2-Dichlorobenzene-d4	98.4	70 - 130		%Rec	1	4/8/2024 6:56:00 PM
Surr: 4-Bromofluorobenzene	99.3	70 - 130		%Rec	1	4/8/2024 6:56:00 PM

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

SW8260

Analyst: ZDA

2-Ethylhexyl acrylate	ND	5.00		µg/L	1	4/8/2024 9:35:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	4/8/2024 9:35:00 PM
Surr: 4-Bromofluorobenzene	96.1	70 - 130		%Rec	1	4/8/2024 9:35:00 PM
Surr: Dibromofluoromethane	105	70 - 130		%Rec	1	4/8/2024 9:35:00 PM
Surr: Toluene-d8	97.4	70 - 130		%Rec	1	4/8/2024 9:35:00 PM

Qualifiers:

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



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Analytical Report

(consolidated)

WO#: 24040475

Date Reported: 4/16/2024

CLIENT: Columbiana County Health District

Collection Date:

Project: EP

Lab ID: 24040475-010

Matrix: DRINKING WATER

Client Sample ID: Trip Blank 4

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	4/8/2024 7:28:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	4/8/2024 7:28:00 PM
Benzene	ND	0.500		µg/L	1	4/8/2024 7:28:00 PM
Ethylbenzene	ND	0.500		µg/L	1	4/8/2024 7:28:00 PM
m,p-Xylene	ND	0.500		µg/L	1	4/8/2024 7:28:00 PM
Naphthalene	ND	0.500		µg/L	1	4/8/2024 7:28:00 PM
o-Xylene	ND	0.500		µg/L	1	4/8/2024 7:28:00 PM
Toluene	ND	0.500		µg/L	1	4/8/2024 7:28:00 PM
Vinyl chloride	ND	0.500		µg/L	1	4/8/2024 7:28:00 PM
Surr: 1,2-Dichlorobenzene-d4	98.5	70 - 130		%Rec	1	4/8/2024 7:28:00 PM
Surr: 4-Bromofluorobenzene	98.5	70 - 130		%Rec	1	4/8/2024 7:28:00 PM
VOC ANALYSIS (8260D)				SW8260		Analyst: ZDA
VOC BY GC/MS (8260D)						
2-Ethylhexyl acrylate	ND	5.00		µg/L	1	4/8/2024 9:59:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	4/8/2024 9:59:00 PM
Surr: 4-Bromofluorobenzene	95.3	70 - 130		%Rec	1	4/8/2024 9:59:00 PM
Surr: Dibromofluoromethane	103	70 - 130		%Rec	1	4/8/2024 9:59:00 PM
Surr: Toluene-d8	100	70 - 130		%Rec	1	4/8/2024 9:59:00 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#: 24040475

Date Reported: 4/16/2024

CLIENT: Columbiana County Health District

Collection Date:

Project: EP

Lab ID: 24040475-011

Matrix: DRINKING WATER

Client Sample ID: Trip Blank 5

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	4/8/2024 8:00:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	4/8/2024 8:00:00 PM
Benzene	ND	0.500		µg/L	1	4/8/2024 8:00:00 PM
Ethylbenzene	ND	0.500		µg/L	1	4/8/2024 8:00:00 PM
m,p-Xylene	ND	0.500		µg/L	1	4/8/2024 8:00:00 PM
Naphthalene	ND	0.500		µg/L	1	4/8/2024 8:00:00 PM
o-Xylene	ND	0.500		µg/L	1	4/8/2024 8:00:00 PM
Toluene	ND	0.500		µg/L	1	4/8/2024 8:00:00 PM
Vinyl chloride	ND	0.500		µg/L	1	4/8/2024 8:00:00 PM
Surr: 1,2-Dichlorobenzene-d4	94.9	70 - 130		%Rec	1	4/8/2024 8:00:00 PM
Surr: 4-Bromofluorobenzene	93.9	70 - 130		%Rec	1	4/8/2024 8:00:00 PM
VOC ANALYSIS (8260D)				SW8260	Analyst: ZDA	
VOC BY GC/MS (8260D)						
2-Ethylhexyl acrylate	ND	5.00		µg/L	1	4/8/2024 10:23:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	4/8/2024 10:23:00 PM
Surr: 4-Bromofluorobenzene	95.0	70 - 130		%Rec	1	4/8/2024 10:23:00 PM
Surr: Dibromofluoromethane	101	70 - 130		%Rec	1	4/8/2024 10:23:00 PM
Surr: Toluene-d8	97.8	70 - 130		%Rec	1	4/8/2024 10:23:00 PM

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



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QC SUMMARY REPORT

WO#: 24040475

16-Apr-24

Client: Columbiana County Health District
Project: EP

BatchID: 74475

Sample ID: 24040475-004BMS	SampType: MS	TestCode: SVOC-MSTR	Units: µg/L	Prep Date: 4/9/2024	RunNo: 183638						
Client ID: PW-824	Batch ID: 74475	TestNo: SW8270	SW3510C	Analysis Date: 4/12/2024	SeqNo: 4979087						
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				
1-Methylnaphthalene	21.5	4.90	39.2	0	54.8	45	130				QMR
2-Methylnaphthalene	23.8	4.90	39.2	0	60.6	42	134				QMR
Acenaphthene	23.2	4.90	39.2	0	59.2	52	128				QMR
Fluoranthene	29.9	4.90	39.2	0	76.3	61	136				QMR
Surr: 2-Fluorophenol	0.0189		0.04902		38.6	10	130				
Surr: Phenol-d6	0.0133		0.04902		27.1	10	130				
Surr: Nitrobenzene-d5	0.0249		0.04902		50.8	10	130				
Surr: 2,4,6-Tribromophenol	0.0341		0.04902		69.5	19	151				
Surr: 2-Fluorobiphenyl	0.0251		0.04902		51.3	10	130				
Surr: p-Terphenyl-d14	0.0309		0.04902		63.0	20	181				

Sample ID: 24040475-004BMSD	SampType: MSD	TestCode: SVOC-MSTR	Units: µg/L	Prep Date: 4/9/2024	RunNo: 183638						
Client ID: PW-824	Batch ID: 74475	TestNo: SW8270	SW3510C	Analysis Date: 4/12/2024	SeqNo: 4979088						
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	31.2	4.90	39.2	0	79.6	45	130	21.5	36.8	30	R
2-Methylnaphthalene	33.8	4.90	39.2	0	86.2	42	134	23.8	34.8	30	R
Acenaphthene	34.5	4.90	39.2	0	87.9	52	128	23.2	39.0	30	R
Fluoranthene	43.7	4.90	39.2	0	111	61	136	29.9	37.4	30	R
Surr: 2-Fluorophenol	0.0221		0.04902		45.0	10	130		0		
Surr: Phenol-d6	0.0167		0.04902		34.1	10	130		0		
Surr: Nitrobenzene-d5	0.0344		0.04902		70.1	10	130		0		
Surr: 2,4,6-Tribromophenol	0.0486		0.04902		99.2	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#: 24040475
16-Apr-24

Client: Columbiana County Health District
Project: EP

BatchID: 74475

Sample ID: 24040475-004BMSD	SampType: MSD	TestCode: SVOC-MSTR	Units: µg/L	Prep Date: 4/9/2024	RunNo: 183638						
Client ID: PW-824	Batch ID: 74475	TestNo: SW8270	SW3510C	Analysis Date: 4/12/2024	SeqNo: 4979088						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	0.0368		0.04902		75.1	10	130		0		
Surr: p-Terphenyl-d14	0.0434		0.04902		88.6	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#: 24040475

16-Apr-24

Client: Columbiana County Health District

Project: EP

BatchID: 74475

Sample ID: LCS-74475	SampType: LCS	TestCode: SVOC-MSTR	Units: µg/L	Prep Date: 4/9/2024	RunNo: 183559						
Client ID: LCSW	Batch ID: 74475	TestNo: SW8270	SW3510C	Analysis Date: 4/10/2024	SeqNo: 4976886						
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				QC-
1-Methylnaphthalene	29.2	5.00	40.0	0	73.1	33	130				
2-Methylnaphthalene	29.2	5.00	40.0	0	73.1	32	130				
Acenaphthene	32.7	5.00	40.0	0	81.8	44	130				
Fluoranthene	40.7	5.00	40.0	0	102	63	130				
Surr: 2-Fluorophenol	0.0273		0.05000		54.7	10	130				
Surr: Phenol-d6	0.0188		0.05000		37.6	10	130				
Surr: Nitrobenzene-d5	0.0396		0.05000		79.1	10	130				
Surr: 2,4,6-Tribromophenol	0.0424		0.05000		84.8	19	151				
Surr: 2-Fluorobiphenyl	0.0370		0.05000		74.0	10	130				
Surr: p-Terphenyl-d14	0.0461		0.05000		92.2	20	181				

Sample ID: MB-74475	SampType: MBLK	TestCode: SVOC-MSTR	Units: µg/L	Prep Date: 4/9/2024	RunNo: 183559						
Client ID: PBW	Batch ID: 74475	TestNo: SW8270	SW3510C	Analysis Date: 4/10/2024	SeqNo: 4976887						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Butoxyethanol	ND	30.0		0	0						QC-
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	0.0211		0.05000		42.1	10	130				
Surr: Phenol-d6	0.0142		0.05000		28.3	10	130				
Surr: Nitrobenzene-d5	0.0316		0.05000		63.1	10	130				
Surr: 2,4,6-Tribromophenol	0.0346		0.05000		69.2	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#: 24040475
 16-Apr-24

Client: Columbiana County Health District
Project: EP

BatchID: 74475

Sample ID: MB-74475	SampType: MBLK	TestCode: SVOC-MSTR	Units: µg/L	Prep Date: 4/9/2024	RunNo: 183559						
Client ID: PBW	Batch ID: 74475	TestNo: SW8270	SW3510C	Analysis Date: 4/10/2024	SeqNo: 4976887						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	0.0280		0.05000		56.0	10	130				
Surr: p-Terphenyl-d14	0.0428		0.05000		85.7	20	181				

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

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

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



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QC SUMMARY REPORT

WO#: 24040475

16-Apr-24

Client: Columbiana County Health District

Project: EP

BatchID: 74531

Sample ID: MB-74531	SampType: MBLK	TestCode: SVOC_DW(52 Units: µg/L	Prep Date: 4/11/2024	RunNo: 183711							
Client ID: PBW	Batch ID: 74531	TestNo: E525 525	Analysis Date: 4/14/2024	SeqNo: 4981340							
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: LCS-74531	SampType: LCS	TestCode: SVOC_DW(52 Units: µg/L	Prep Date: 4/11/2024	RunNo: 183711							
Client ID: LCSW	Batch ID: 74531	TestNo: E525 525	Analysis Date: 4/14/2024	SeqNo: 4981342							
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#: 24040475

16-Apr-24

Client: Columbiana County Health District

Project: EP

BatchID: 74531

Sample ID: LCS-74531	SampType: LCS	TestCode: SVOC_DW(52 Units: µg/L	Prep Date: 4/11/2024	RunNo: 183711							
Client ID: LCSW	Batch ID: 74531	TestNo: E525 525	Analysis Date: 4/14/2024	SeqNo: 4981342							
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-nitrobenzene	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: 24040475-004AMS	SampType: MS	TestCode: SVOC_DW(52 Units: µg/L	Prep Date: 4/11/2024	RunNo: 183711							
Client ID: PW-824	Batch ID: 74531	TestNo: E525 525	Analysis Date: 4/14/2024	SeqNo: 4981347							
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
 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#: 24040475

16-Apr-24

Client: Columbiana County Health District

Project: EP

BatchID: 74531

Sample ID: 24040475-004AMS	SampType: MS	TestCode: SVOC_DW(52	Units: µg/L	Prep Date: 4/11/2024	RunNo: 183711						
Client ID: PW-824	Batch ID: 74531	TestNo: E525	525	Analysis Date: 4/14/2024	SeqNo: 4981347						
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: 24040475-004AMSD	SampType: MSD	TestCode: SVOC_DW(52	Units: µg/L	Prep Date: 4/11/2024	RunNo: 183711						
Client ID: PW-824	Batch ID: 74531	TestNo: E525	525	Analysis Date: 4/14/2024	SeqNo: 4981348						
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#: **24040475**
16-Apr-24

Client: Columbiana County Health District
Project: EP

BatchID: 74531

Sample ID: 24040475-004AMSD	SampType: MSD	TestCode: SVOC_DW(52)	Units: µg/L	Prep Date: 4/11/2024	RunNo: 183711						
Client ID: PW-824	Batch ID: 74531	TestNo: E525	525	Analysis Date: 4/14/2024	SeqNo: 4981348						
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
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QC SUMMARY REPORT

WO#: 24040475

16-Apr-24

Client: Columbiana County Health District

Project: EP

BatchID: R183431

Sample ID: LCS-R183431	SampType: LCS	TestCode: VOC-MSTR_	Units: µg/L	Prep Date:	RunNo: 183431						
Client ID: LCSW	Batch ID: R183431	TestNo: SW8260	Analysis Date: 4/8/2024	SeqNo: 4973814							
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	95.3	70	130				
n-Butyl acrylate	20.0	5.00	20.00	0	99.9	70	130				
Surr: 4-Bromofluorobenzene	48.3		50.00		96.5	70	130				
Surr: Dibromofluoromethane	50.3		50.00		101	70	130				
Surr: Toluene-d8	49.9		50.00		99.9	70	130				

Sample ID: MB-R183431	SampType: MBLK	TestCode: VOC-MSTR_	Units: µg/L	Prep Date:	RunNo: 183431						
Client ID: PBW	Batch ID: R183431	TestNo: SW8260	Analysis Date: 4/8/2024	SeqNo: 4973815							
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	48.3		50.00		96.5	70	130				
Surr: Dibromofluoromethane	50.9		50.00		102	70	130				
Surr: Toluene-d8	49.3		50.00		98.5	70	130				

Sample ID: 24040475-004DMS	SampType: MS	TestCode: VOC-MSTR_	Units: µg/L	Prep Date:	RunNo: 183431						
Client ID: PW-824	Batch ID: R183431	TestNo: SW8260	Analysis Date: 4/8/2024	SeqNo: 4973819							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Ethylhexyl acrylate	17.3	5.00	20.00	0	86.6	70	130				QMR
n-Butyl acrylate	19.5	5.00	20.00	0	97.6	70	130				QMR
Surr: 4-Bromofluorobenzene	50.2		50.00		100	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#: **24040475**
16-Apr-24

Client: Columbiana County Health District
Project: EP

BatchID: R183431

Sample ID: 24040475-004DMS	SampType: MS	TestCode: VOC-MSTR_	Units: µg/L	Prep Date:	RunNo: 183431						
Client ID: PW-824	Batch ID: R183431	TestNo: SW8260	Analysis Date: 4/8/2024	SeqNo: 4973819							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	51.1		50.00		102	70	130				
Surr: Toluene-d8	49.8		50.00		99.6	46.1	154				

Sample ID: 24040475-004DMSD	SampType: MSD	TestCode: VOC-MSTR_	Units: µg/L	Prep Date:	RunNo: 183431						
Client ID: PW-824	Batch ID: R183431	TestNo: SW8260	Analysis Date: 4/8/2024	SeqNo: 4973820							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Ethylhexyl acrylate	39.5	5.00	20.00	0	198	70	130	17.32	78.1	20	RS
n-Butyl acrylate	40.1	5.00	20.00	0	201	70	130	19.52	69.1	20	RS
Surr: 4-Bromofluorobenzene	50.3		50.00		101	70	130		0	20	
Surr: Dibromofluoromethane	50.5		50.00		101	70	130		0	20	
Surr: Toluene-d8	49.6		50.00		99.2	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#: 24040475

16-Apr-24

Client: Columbiana County Health District

Project: EP

BatchID: R183456

Sample ID: LCS-R183456	SampType: LCS	TestCode: VOC_DW(524) Units: µg/L	Prep Date:	RunNo: 183456							
Client ID: LCSW	Batch ID: R183456	TestNo: E524.2	Analysis Date: 4/8/2024	SeqNo: 4974495							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloropropene	5.11	0.500	5.000	0	102	70	130				
1,2,4-Trimethylbenzene	4.95	0.500	5.000	0	99.1	70	130				
Benzene	4.93	0.500	5.000	0	98.6	70	130				
Ethylbenzene	4.99	0.500	5.000	0	99.8	70	130				
m,p-Xylene	10.0	0.500	10.00	0	100	70	130				
Naphthalene	5.22	0.500	5.000	0	104	70	130				
o-Xylene	5.00	0.500	5.000	0	99.9	70	130				
Toluene	4.85	0.500	5.000	0	97.1	70	130				
Vinyl chloride	4.66	0.500	5.000	0	93.3	70	130				
Surr: 1,2-Dichlorobenzene-d4	10.5		10.00		105	70	130				
Surr: 4-Bromofluorobenzene	10.6		10.00		106	70	130				

Sample ID: MB-R183456	SampType: MBLK	TestCode: VOC_DW(524) Units: µg/L	Prep Date:	RunNo: 183456							
Client ID: PBW	Batch ID: R183456	TestNo: E524.2	Analysis Date: 4/8/2024	SeqNo: 4974507							
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#: 24040475

16-Apr-24

Client: Columbiana County Health District

Project: EP

BatchID: R183456

Sample ID: MB-R183456	SampType: MBLK	TestCode: VOC_DW(524) Units: µg/L	Prep Date:	RunNo: 183456							
Client ID: PBW	Batch ID: R183456	TestNo: E524.2	Analysis Date: 4/8/2024	SeqNo: 4974507							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 1,2-Dichlorobenzene-d4	9.09		10.00		90.9	70	130				
Surr: 4-Bromofluorobenzene	9.68		10.00		96.8	70	130				

Sample ID: 24040475-004CMS	SampType: MS	TestCode: VOC_DW(524) Units: µg/L	Prep Date:	RunNo: 183456							
Client ID: PW-824	Batch ID: R183456	TestNo: E524.2	Analysis Date: 4/8/2024	SeqNo: 4974512							
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				
1,2,4-Trimethylbenzene	5.18	0.500	5.000	0	104	70	130				
Benzene	5.39	0.500	5.000	0	108	70	130				
Ethylbenzene	5.41	0.500	5.000	0	108	70	130				
m,p-Xylene	11.0	0.500	10.00	0	110	70	130				
Naphthalene	5.12	0.500	5.000	0	102	70	130				
o-Xylene	5.31	0.500	5.000	0	106	70	130				
Toluene	5.37	0.500	5.000	0	107	70	130				
Vinyl chloride	4.70	0.500	5.000	0	93.9	70	130				
Surr: 1,2-Dichlorobenzene-d4	10.6		10.00		106	70	130				
Surr: 4-Bromofluorobenzene	10.3		10.00		103	70	130				

Sample ID: 24040475-004CMSD	SampType: MSD	TestCode: VOC_DW(524) Units: µg/L	Prep Date:	RunNo: 183456							
Client ID: PW-824	Batch ID: R183456	TestNo: E524.2	Analysis Date: 4/8/2024	SeqNo: 4974513							
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#: **24040475**

16-Apr-24

Client: Columbiana County Health District

Project: EP

BatchID: R183456

Sample ID: 24040475-004CMSD SampType: MSD TestCode: VOC_DW(524) Units: µg/L Prep Date: RunNo: 183456											
Client ID: PW-824 Batch ID: R183456 TestNo: E524.2 Analysis Date: 4/8/2024 SeqNo: 4974513											
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloropropene	5.85	0.500	5.000	0	117	70	130	5.693	2.77	25	
1,2,4-Trimethylbenzene	4.90	0.500	5.000	0	98.1	70	130	5.183	5.51	25	
Benzene	5.36	0.500	5.000	0	107	70	130	5.391	0.651	25	
Ethylbenzene	5.28	0.500	5.000	0	106	70	130	5.413	2.58	25	
m,p-Xylene	10.3	0.500	10.00	0	103	70	130	11.00	6.80	25	
Naphthalene	4.97	0.500	5.000	0	99.4	70	130	5.118	2.89	25	
o-Xylene	4.89	0.500	5.000	0	97.9	70	130	5.314	8.25	25	
Toluene	5.20	0.500	5.000	0	104	70	130	5.368	3.24	25	
Vinyl chloride	4.80	0.500	5.000	0	96.0	70	130	4.697	2.17	25	
Surr: 1,2-Dichlorobenzene-d4	9.62		10.00		96.2	70	130		0	25	
Surr: 4-Bromofluorobenzene	9.81		10.00		98.1	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



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

DATES REPORT

WO#: **24040475**
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
24040475-001A	PW-673b	4/4/2024 2:50:00 PM	Drinking Water	Synthetic Organic Compounds by GC/ (EPA 525.3)		4/11/2024 9:45:00 AM	4/14/2024 8:07:00 PM
24040475-001B				SVOC by 8270E		4/9/2024 8:00:00 PM	4/12/2024 3:32:00 AM
24040475-001C				VOC-GC/MS (524.2)			4/8/2024 1:04:00 PM
24040475-001D				VOC by GC/MS (8260D)			4/8/2024 10:47:00 PM
24040475-002A	PW-679	4/4/2024 12:30:00 PM		Synthetic Organic Compounds by GC/ (EPA 525.3)		4/11/2024 9:45:00 AM	4/14/2024 8:41:00 PM
24040475-002B				SVOC by 8270E		4/9/2024 8:00:00 PM	4/12/2024 4:03:00 AM
24040475-002C				VOC-GC/MS (524.2)			4/8/2024 1:36:00 PM
24040475-002D				VOC by GC/MS (8260D)			4/8/2024 11:10:00 PM
24040475-003A	PW-679FB	4/4/2024 12:00:00 PM		Synthetic Organic Compounds by GC/ (EPA 525.3)		4/11/2024 9:45:00 AM	4/14/2024 9:14:00 PM
24040475-003B				SVOC by 8270E		4/9/2024 8:00:00 PM	4/12/2024 4:35:00 AM
24040475-003C				VOC-GC/MS (524.2)			4/8/2024 2:08:00 PM
24040475-003D				VOC by GC/MS (8260D)			4/8/2024 11:34:00 PM
24040475-004A	PW-824	4/4/2024 11:15:00 AM		Synthetic Organic Compounds by GC/ (EPA 525.3)		4/11/2024 9:45:00 AM	4/14/2024 9:47:00 PM
24040475-004B				SVOC by 8270E		4/9/2024 8:00:00 PM	4/12/2024 5:06:00 AM
24040475-004C				VOC-GC/MS (524.2)			4/8/2024 2:40:00 PM
24040475-004D				VOC by GC/MS (8260D)			4/8/2024 7:12:00 PM
24040475-005A	PW-318	4/4/2024 1:20:00 PM		Synthetic Organic Compounds by GC/ (EPA 525.3)		4/11/2024 9:45:00 AM	4/14/2024 11:27:00 PM
24040475-005B				SVOC by 8270E		4/9/2024 8:00:00 PM	4/12/2024 6:41:00 AM
24040475-005C				VOC-GC/MS (524.2)			4/8/2024 4:48:00 PM
24040475-005D				VOC by GC/MS (8260D)			4/8/2024 11:58:00 PM
24040475-006A	PW-430	4/4/2024 10:00:00 AM		Synthetic Organic Compounds by GC/ (EPA 525.3)		4/11/2024 9:45:00 AM	4/15/2024 12:01:00 AM

Original



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#: **24040475**
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
24040475-006B	PW-430	4/4/2024 10:00:00 AM	Drinking Water	SVOC by 8270E		4/9/2024 8:00:00 PM	4/12/2024 7:12:00 AM
24040475-006C				VOC-GC/MS (524.2)			4/8/2024 5:20:00 PM
24040475-006D				VOC by GC/MS (8260D)			4/9/2024 12:22:00 AM
24040475-007A	Trip Blank 1			VOC-GC/MS (524.2)			4/8/2024 5:52:00 PM
24040475-007B				VOC by GC/MS (8260D)			4/8/2024 8:47:00 PM
24040475-008A	Trip Blank 2			VOC-GC/MS (524.2)			4/8/2024 6:24:00 PM
24040475-008B				VOC by GC/MS (8260D)			4/8/2024 9:11:00 PM
24040475-009A	Trip Blank 3			VOC-GC/MS (524.2)			4/8/2024 6:56:00 PM
24040475-009B				VOC by GC/MS (8260D)			4/8/2024 9:35:00 PM
24040475-010A	Trip Blank 4			VOC-GC/MS (524.2)			4/8/2024 7:28:00 PM
24040475-010B				VOC by GC/MS (8260D)			4/8/2024 9:59:00 PM
24040475-011A	Trip Blank 5			VOC-GC/MS (524.2)			4/8/2024 8:00:00 PM
24040475-011B				VOC by GC/MS (8260D)			4/8/2024 10:23:00 PM

Original



Analysis Request / Chain of Custody

Refer to Terms and Conditions at www.settek.com

SET
WO
NO
For Summit Environmental Technologies, Inc. on
24040475

Client Name CCHD		Project Identification EP		Analytical Parameters and Methods Requested									
[Redacted]		[Redacted]											
Contact Person Kevin Summerville		Quote Number		Matrix: S = Solid, SL = Sludge, L = Liquid, O = Oil, A = Air; NPW = Non-Potable Water, DW = Drinking Water Preservation: 1) HNO ₃ ; 2) H ₂ SO ₄ ; 3) HCl; 4) Zinc Acetate; 5) NaOH; 6) KDA; 7) none; 8) other (specify in comments)									
Client Email Address ksommerville@columbiana-health.org		Facility ID											
Sampled By (Print Name and Provide Signature) Alexis Lanton		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				For DW Only: Special Compliance or Routine (S/R)	
	DW-673b	dam hydrant	4/14/24	2:55 PM	✓		DW	8	10	X	X	X	X	

Relinquished by:	Date	Time	Received by:	Date	Time	Notes / Comments: 524-HCl, 8260-HCl, 525.2-unknown 26-0.2 CS intact - 4/14/24 - Alexis Lanton
<i>[Signature]</i>	4/15/24	8:20	<i>[Signature]</i>	4/15	8:20	
Sufficient volume provided to run QC? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						Cooler? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO

Received at Summit by:	Date	Time	Carrier	Rush Requested:	Day(s)	Received Temp.:	Other Container:
<i>[Signature]</i>	APR 05 2024	1:00	SET	Must be approved by Lab Manager		2.4 °C	Ice Present? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> MELTED



Analysis Request / Chain of Custody

Refer to Terms and Conditions at www.settek.com

SET WO NO.:	For Summit Environmental Technologies, Inc. use only
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Client Name CC+HD	Project Identification FP	Analytical Parameters and Methods Requested												
[REDACTED]														
Client Phone 330-424-0272	Report ID CC+HD	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											
Contact Person Kevin Summerville	PO #			Quote Number										
Client Email Address ksummerville@columbiana-health.org	PWS ID PW-679			Facility ID										
Sampled By (Print Name and Provide Signature) Alexis Lawton	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):													
Sign: <i>[Signature]</i>	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	M	N	10	524	828	525.2	0928	For DW Only: Special Compliance or Routine (S/R)
	DW-679	Outside Spigot	4/4/24	12:30pm	✓		DW	8	10	X	X	X	X	
	PW-679	Fire Blank	4/4/24	12:00pm	✓		L	8	10	X	X	X	X	

Relinquished by: <i>[Signature]</i>	Date 4/5/24	Time 8:20	Received by: <i>[Signature]</i>	Date 4/5	Time 8:20	Notes / Comments: 524-HCl, 828-HCl, 525.2-unknown 3.2-0.2, 3.1-0.2 CS intact-4/4/24-Alexis Lawton
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: <i>[Signature]</i>	Date APR 05 2024	Time 13 00	Carrier SET	Rush Requested: _____ Day(s) Must be approved by Lab Manager	Received Temp.: 3.0, 2.9 °C	Other Container: Ice Present? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> MELTED



Analysis Request / Chain of Custody

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

Client Name CC HD		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)	Analytical Parameters and Methods Requested																																																																																										
330-424-0272		CC HD						<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></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> <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 ksummerville@columbiana-health.org	PWS ID PW-824	Facility ID																																																																																																
Sampled By (Print Name and Provide Signature) Alexis Lawton	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				Number of Containers per Sample																																																																																														

#	Sample Point ID	Sample Identification	Date Collected	Time Collected	Grab Sample	Composite Sample	Matrix	Preservation	Number of Containers per Sample		Analytical Parameters and Methods Requested								For DW Only: Special Compliance or Routine (S/R)					
	PW-824	Kitchen sink	4/4/24	11:15 AM	✓		DW	8	10	X	X	X	X											
	PW-824	MSD	4/4/24	11:15 AM	✓		DW	8	10	X	X	X	X											
	PW-824	MS	4/4/24	11:15 AM	✓		DW	8	10	X	X	X	X											

Relinquished by:	Date	Time	Received by:	Date	Time	Notes / Comments: 524-HCl, 826-HCl, 525.2-unknown 3.1-0.2, 2.5-0.2 CS intact 4/4/24 - Alexis Lawton
<i>K. Smith</i>	4/5/24	8:20	<i>AK</i>	4/5	8:20	
Sufficient volume provided to run QC? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						Cooler? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO

Received at Summit by:	Date	Time	Carrier	Rush Requested: _____ Day(s)	Received Temp.:	Other Container:
<i>Anthony B...</i>	APR 05 2024	1300	SET	Must be approved by Lab Manager	2,9,2.3 °C	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

Client Name: CCHD		Project Identification: FP		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	X	X	X	X																		
Contact Person: Kevin Summerville		PO #: CCHD																						Quote Number											
Client Email Address: ksummerville@columbiana-health.com		PWS ID: PW-318																							Facility ID										
Sampled By (Print Name and Provide Signature): Alexis Lawton		Reporting/Accreditation Requirements:																																	
Print: Alexis Lawton		<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	X	X	X	X																		
	PW-318	basement spigot	4/4/24	1:20 PM	✓		DW	8	10	X	X	X	X																						
Relinquished by: For Set			Date: 4/5/24	Time: 8:20	Received by: [Signature]			Date: 4/5	Time: 8:20	Notes / Comments: 524-HCl, 8260-HCl, 525.2-unknown, 2.6-0.2, CS intact 04/4/24 - Alexis Lawton																									
Received at Summit by: Anthony B. [Signature]										Date: APR 05 2024	Time: 1300	Carrier: SET		Rush Requested: <input type="checkbox"/> Day(s) <input type="checkbox"/> Night		Received Temp.: 2.4 °C		Other Container: <input 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: CC HD		Project Identification: EP																			
Client Phone: 330-424-0272		Report To: CC HD																			
Contact Person: Kevin Summerville		PO #:		Quote Number:																	
Client Email Address: ksommerville@calumetia-health.org		PWS ID: DW-430		Facility ID:																	
Sampled By (Print Name and Provide Signature): Alexis Lawton		Reporting/Accreditation Requirements:																			
Print: Alexis Lawton		<input type="checkbox"/> Ohio VAP		<input type="checkbox"/> Ohio EPA Pb, Cu																	
Sign: [Signature]		<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	524	8270	525.2	8260								
	DW-430	pressure tank	4/4/24	10:00 AM	✓		DW	8	10	X	X	X	X								
Relinquished by: [Signature]		Date: 4/5/24	Time: 8:20	Received by: [Signature]		Date: 4/5	Time: 8:20	Notes / Comments: 524-HCl, 8260-HCl, 525.2-unknown, 2.8-0.2, CS intact 4/4/24 - Alexis Lawton													
Received at Summit by: Anthony [Signature]		Date: APR 05 2024	Time: 1300	Carrier: SET		Rush Requested: <input type="checkbox"/>	Day(s): <input type="checkbox"/>	Must be approved by Lab Manager		Received Temp.: 2.6 °C		Other Container: <input type="checkbox"/>		Ice Present? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> MELTED		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			



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

Sample Log-In Check List

Client Name: COL-OH-44432 Work Order Number: 24040475 RcptNo: 1

Logged by:	Anthony W. Britton	4/5/2024 1:00:00 PM	
Completed By:	Anthony W. Britton	4/8/2024 1:08:46 PM	
Reviewed By:	Salwa A. Najjar	4/8/2024 11:28:22 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: 4/4/2024 Signed By: Alexis Lawton
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	2.4	Good	Yes	N/A	4/4/2024	Alexis Lawton
2	3.0	Good	Yes	N/A	4/4/2024	Alexis Lawton
3	2.9	Good	Yes	N/A	4/4/2024	Alexis Lawton



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Sample Log-In Check List

Client Name: COL-OH-44432

Work Order Number: 24040475

RcptNo: 1

4	2.3	Good	Yes	N/A	4/4/2024	Alexis Lawton
5	2.6	Good	Yes	N/A	4/4/2024	Alexis Lawton