



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

March 09, 2023

Colin White
OhioEPA-DDAGW
2110 East Aurora Road
Twinsburg, OH 44087
TEL: (614) 644-2759
FAX:

RE: Ohio EPA PWS-EP

Dear Colin White:

Order No.: 23030046

Summit Environmental Technologies, Inc. received 12 sample(s) on 3/1/2023 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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Case Narrative

WO#: 23030046
Date: 3/9/2023

CLIENT: OhioEPA-DDAGW
Project: Ohio EPA PWS-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.

Analytical Sequence Sample Notes:

23030046-001 through 007 SVOC-MSTR_NPW(8270E): LCS/LCSD-63294 exhibited high recovery for Di-n-octyl phthalate. Sample is ND for this analyte.

23030046-008D SVOC-MSTR_NPW(8270E): LCS/LCSD-63294 exhibited high recovery for Di-n-octyl phthalate. Sample is ND for this analyte. Sample exhibited low recovery for surrogate Phenol-d6, confirmed by reanalysis.

23030046-006D SVOC-MSTR_NPW(8270E): Sample exhibited low recovery for surrogate Phenol-d6, confirmed by reanalysis.

Original



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Case Narrative

WO#: 23030046
Date: 3/9/2023

CLIENT: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP

23030046-011 and 012 VOC-MSTR_NPW(8260D): LCS exhibited high recovery for 2-Nitropropane. Investigative sample is ND for this analyte. Possible low bias for Epichlorohydrin, 1,4-Dioxane, 2,2-Dichloropropane, and trans-1,4-Dichloro-2-butene due to low recoveries in the CCV. Adequate sensitivity demonstrated in RLC for all analytes except Epichlorohydrin.

23030046-008A VOC_DW(524.2): The pH of the sample >2. Sample not analyzed within 24 hours of collection. Client attempted to preserve sample.

23030046-001 through 004 SVOC_DW(525.3): Possible low bias for Hexachlorocyclopentadiene due to low recoveries in LCS/LCSD-63330, confirmed by reanalysis.

23030046-005 through 008 SVOC_DW(525.3): CCV exhibited high recovery for Benzo(k)fluoranthene. Sample is ND for this analyte. Possible low bias for Hexachlorocyclopentadiene due to low recoveries in LCS/LCSD-63330, confirmed by reanalysis.

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Workorder Sample Summary

WO#: 23030046

09-Mar-23

CLIENT: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
23030046-001	PW-201 Well 008		2/28/2023 9:46:00 AM	3/1/2023 11:45:00 AM	Drinking Water
23030046-001	PW-201 Well 008		2/28/2023 9:46:00 AM	3/1/2023 11:45:00 AM	Drinking Water
23030046-001	PW-201 Well 008		2/28/2023 9:46:00 AM	3/1/2023 11:45:00 AM	Drinking Water
23030046-001	PW-201 Well 008		2/28/2023 9:46:00 AM	3/1/2023 11:45:00 AM	Drinking Water
23030046-002	PW-202 Rhoades Well		2/28/2023 10:35:00 AM	3/1/2023 11:45:00 AM	Drinking Water
23030046-002	PW-202 Rhoades Well		2/28/2023 10:35:00 AM	3/1/2023 11:45:00 AM	Drinking Water
23030046-002	PW-202 Rhoades Well		2/28/2023 10:35:00 AM	3/1/2023 11:45:00 AM	Drinking Water
23030046-002	PW-202 Rhoades Well		2/28/2023 10:35:00 AM	3/1/2023 11:45:00 AM	Drinking Water
23030046-003	PW-203 Nulf Well		2/28/2023 11:25:00 AM	3/1/2023 11:45:00 AM	Drinking Water
23030046-003	PW-203 Nulf Well		2/28/2023 11:25:00 AM	3/1/2023 11:45:00 AM	Drinking Water
23030046-003	PW-203 Nulf Well		2/28/2023 11:25:00 AM	3/1/2023 11:45:00 AM	Drinking Water
23030046-003	PW-203 Nulf Well		2/28/2023 11:25:00 AM	3/1/2023 11:45:00 AM	Drinking Water
23030046-004	PW-204 Harding Well		2/28/2023 12:04:00 PM	3/1/2023 11:45:00 AM	Drinking Water
23030046-004	PW-204 Harding Well		2/28/2023 12:04:00 PM	3/1/2023 11:45:00 AM	Drinking Water
23030046-004	PW-204 Harding Well		2/28/2023 12:04:00 PM	3/1/2023 11:45:00 AM	Drinking Water
23030046-004	PW-204 Harding Well		2/28/2023 12:04:00 PM	3/1/2023 11:45:00 AM	Drinking Water
23030046-005	PW-205 Zuch Well		2/28/2023 12:56:00 PM	3/1/2023 11:45:00 AM	Drinking Water
23030046-005	PW-205 Zuch Well		2/28/2023 12:56:00 PM	3/1/2023 11:45:00 AM	Drinking Water
23030046-005	PW-205 Zuch Well		2/28/2023 12:56:00 PM	3/1/2023 11:45:00 AM	Drinking Water
23030046-005	PW-205 Zuch Well		2/28/2023 12:56:00 PM	3/1/2023 11:45:00 AM	Drinking Water
23030046-006	PW-207 Entry Point		2/28/2023 2:10:00 PM	3/1/2023 11:45:00 AM	Drinking Water
23030046-006	PW-207 Entry Point		2/28/2023 2:10:00 PM	3/1/2023 11:45:00 AM	Drinking Water
23030046-006	PW-207 Entry Point		2/28/2023 2:10:00 PM	3/1/2023 11:45:00 AM	Drinking Water



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WO#: 23030046

09-Mar-23

CLIENT: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
23030046-006	PW-207 Entry Point		2/28/2023 2:10:00 PM	3/1/2023 11:45:00 AM	Drinking Water
23030046-007	PW-201FB Field Blank		2/28/2023 9:46:00 AM	3/1/2023 11:45:00 AM	Drinking Water
23030046-007	PW-201FB Field Blank		2/28/2023 9:46:00 AM	3/1/2023 11:45:00 AM	Drinking Water
23030046-007	PW-201FB Field Blank		2/28/2023 9:46:00 AM	3/1/2023 11:45:00 AM	Drinking Water
23030046-007	PW-201FB Field Blank		2/28/2023 9:46:00 AM	3/1/2023 11:45:00 AM	Drinking Water
23030046-008	PW-207Dupe Duplicate		2/28/2023 2:10:00 PM	3/1/2023 11:45:00 AM	Drinking Water
23030046-008	PW-207Dupe Duplicate		2/28/2023 2:10:00 PM	3/1/2023 11:45:00 AM	Drinking Water
23030046-008	PW-207Dupe Duplicate		2/28/2023 2:10:00 PM	3/1/2023 11:45:00 AM	Drinking Water
23030046-008	PW-207Dupe Duplicate		2/28/2023 2:10:00 PM	3/1/2023 11:45:00 AM	Drinking Water
23030046-009	Trip Blank 1			3/1/2023 11:45:00 AM	Drinking Water
23030046-009	Trip Blank 1			3/1/2023 11:45:00 AM	Drinking Water
23030046-009	Trip Blank 1			3/1/2023 11:45:00 AM	Drinking Water
23030046-010	Trip Blank 2			3/1/2023 11:45:00 AM	Drinking Water
23030046-010	Trip Blank 2			3/1/2023 11:45:00 AM	Drinking Water
23030046-010	Trip Blank 2			3/1/2023 11:45:00 AM	Drinking Water
23030046-011	Trip Blank 3			3/1/2023 11:45:00 AM	Drinking Water
23030046-011	Trip Blank 3			3/1/2023 11:45:00 AM	Drinking Water
23030046-011	Trip Blank 3			3/1/2023 11:45:00 AM	Drinking Water
23030046-012	Trip Blank 4			3/1/2023 11:45:00 AM	Drinking Water
23030046-012	Trip Blank 4			3/1/2023 11:45:00 AM	Drinking Water
23030046-012	Trip Blank 4			3/1/2023 11:45:00 AM	Drinking Water



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Analytical Report

(consolidated)

WO#: 23030046

Date Reported: 3/9/2023

CLIENT: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP
Lab ID: 23030046-001
Client Sample ID: PW-201 Well 008

Collection Date: 2/28/2023 9:46:00 AM

Matrix: DRINKING WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA504.-DW				E504.1	E504.1	Analyst: PGP
EDB, DBCP, 123TCP BY GC (EPA 504.1)						
Dibromochloropropane	ND	0.0400		µg/L	1	3/6/2023 5:29:00 PM
Ethylene dibromide	ND	0.0200		µg/L	1	3/6/2023 5:29:00 PM
DRINKING WATER ORGANIC COMPOUNDS (EPA 525)				E525	525	Analyst: MES
SYNTHETIC ORGANIC COMPOUNDS BY GC/MS (EPA 525.3)						
2,4-Dinitrotoluene	ND	0.194		µg/L	1	3/8/2023 12:14:00 AM
Acenaphthylene	ND	0.0971		µg/L	1	3/8/2023 12:14:00 AM
Anthracene	ND	0.0971		µg/L	1	3/8/2023 12:14:00 AM
Benzo(a)anthracene	ND	0.0971		µg/L	1	3/8/2023 12:14:00 AM
Benzo(a)pyrene	ND	0.0971		µg/L	1	3/8/2023 12:14:00 AM
Benzo(b)fluoranthene	ND	0.0971		µg/L	1	3/8/2023 12:14:00 AM
Benzo(g,h,i)perylene	ND	0.0971		µg/L	1	3/8/2023 12:14:00 AM
Benzo(k)fluoranthene	ND	0.0971		µg/L	1	3/8/2023 12:14:00 AM
Bis(2-ethylhexyl) phthalate	ND	0.194		µg/L	1	3/8/2023 12:14:00 AM
Butyl benzyl phthalate	ND	0.194		µg/L	1	3/8/2023 12:14:00 AM
Chrysene	ND	0.0971		µg/L	1	3/8/2023 12:14:00 AM
Dibenz(a,h)anthracene	ND	0.0971		µg/L	1	3/8/2023 12:14:00 AM
Diethyl phthalate	ND	0.0971		µg/L	1	3/8/2023 12:14:00 AM
Dimethyl phthalate	ND	0.194		µg/L	1	3/8/2023 12:14:00 AM
Di-n-butyl phthalate	0.485	0.194		µg/L	1	3/8/2023 12:14:00 AM
Fluorene	ND	0.0971		µg/L	1	3/8/2023 12:14:00 AM
Hexachlorobenzene	ND	0.0971		µg/L	1	3/8/2023 12:14:00 AM
Hexachlorocyclopentadiene	ND	0.0971	QL-	µg/L	1	3/8/2023 12:14:00 AM
Indeno(1,2,3-cd)pyrene	ND	0.971		µg/L	1	3/8/2023 12:14:00 AM
Isophorone	ND	0.194		µg/L	1	3/8/2023 12:14:00 AM
Phenanthrene	ND	0.0971		µg/L	1	3/8/2023 12:14:00 AM
Pyrene	ND	0.0971		µg/L	1	3/8/2023 12:14:00 AM
Surr: 1,3-Dimethyl-2-nitrobenz...	87.2	70 - 130		%Rec	1	3/8/2023 12:14:00 AM
Surr: Benzo(a)pyrene-d12	95.6	70 - 130		%Rec	1	3/8/2023 12:14:00 AM
Surr: Triphenyl phosphite	117	70 - 130		%Rec	1	3/8/2023 12:14:00 AM
SVOC BY SW8270E				SW8270	SW3510C	Analyst: JAP
SVOC BY 8270E						
Benzoic acid	ND	15.4		µg/L	1	3/6/2023 1:51:00 PM

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

Original



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Analytical Report

(consolidated)

WO#: 23030046

Date Reported: 3/9/2023

CLIENT: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP
Lab ID: 23030046-001
Client Sample ID: PW-201 Well 008

Collection Date: 2/28/2023 9:46:00 AM

Matrix: DRINKING WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SVOC BY SW8270E					SW8270	SW3510C
SVOC BY 8270E						Analyst: JAP
2,6-Dinitrotoluene	ND	0.962		µg/L	1	3/6/2023 1:51:00 PM
2-Methylnaphthalene	ND	0.962		µg/L	1	3/6/2023 1:51:00 PM
3,3'-Dichlorobenzidine	ND	9.62		µg/L	1	3/6/2023 1:51:00 PM
4-Nitrophenol	ND	4.81		µg/L	1	3/6/2023 1:51:00 PM
Acenaphthene	ND	0.962		µg/L	1	3/6/2023 1:51:00 PM
Bis(2-chloroethyl) ether	ND	0.962		µg/L	1	3/6/2023 1:51:00 PM
Di-n-octyl phthalate	ND	4.81	QL+	µg/L	1	3/6/2023 1:51:00 PM
Fluoranthene	ND	0.962		µg/L	1	3/6/2023 1:51:00 PM
Naphthalene	ND	0.962		µg/L	1	3/6/2023 1:51:00 PM
Phenol	ND	0.962		µg/L	1	3/6/2023 1:51:00 PM
3&4-Methylphenol	ND	0.962		µg/L	1	3/6/2023 1:51:00 PM
Surr: 2-Fluorophenol	53.4	20 - 130		%Rec	1	3/6/2023 1:51:00 PM
Surr: Phenol-d6	32.6	20 - 130		%Rec	1	3/6/2023 1:51:00 PM
Surr: Nitrobenzene-d5	79.7	27.4 - 130		%Rec	1	3/6/2023 1:51:00 PM
Surr: 2,4,6-Tribromophenol	87.1	54.3 - 133		%Rec	1	3/6/2023 1:51:00 PM
Surr: 2-Fluorobiphenyl	81.5	25.6 - 130		%Rec	1	3/6/2023 1:51:00 PM
Surr: p-Terphenyl-d14	99.6	20 - 181		%Rec	1	3/6/2023 1:51:00 PM

DRINKING WATER VOCs (EPA 524.2)					E524.2	Analyst: ZDA
VOC-GC/MS (524.2)						
1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	3/5/2023 10:39:00 PM
1,1,1-Trichloroethane	ND	0.500		µg/L	1	3/5/2023 10:39:00 PM
1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	3/5/2023 10:39:00 PM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	3/5/2023 10:39:00 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/5/2023 10:39:00 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	3/5/2023 10:39:00 PM
1,1-Dichloropropene	ND	0.500		µg/L	1	3/5/2023 10:39:00 PM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	3/5/2023 10:39:00 PM
1,2,3-Trichloropropane	ND	0.500		µg/L	1	3/5/2023 10:39:00 PM
1,2,4-Trichlorobenzene	ND	0.500		µg/L	1	3/5/2023 10:39:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	3/5/2023 10:39:00 PM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	3/5/2023 10:39:00 PM
1,2-Dichloroethane	ND	0.500		µg/L	1	3/5/2023 10:39:00 PM
1,2-Dichloropropane	ND	0.500		µg/L	1	3/5/2023 10:39:00 PM

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

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Analytical Report

(consolidated)

WO#: 23030046

Date Reported: 3/9/2023

CLIENT: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP
Lab ID: 23030046-001
Client Sample ID: PW-201 Well 008

Collection Date: 2/28/2023 9:46:00 AM

Matrix: DRINKING WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DRINKING WATER VOCS (EPA 524.2)				E524.2	Analyst: ZDA	
VOC-GC/MS (524.2)						
1,3,5-Trimethylbenzene	ND	0.500		µg/L	1	3/5/2023 10:39:00 PM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	3/5/2023 10:39:00 PM
1,3-Dichloropropane	ND	0.500		µg/L	1	3/5/2023 10:39:00 PM
1,3-Dichloropropene, Total	ND	1.00		µg/L	1	3/5/2023 10:39:00 PM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	3/5/2023 10:39:00 PM
2-Chlorotoluene	ND	0.500		µg/L	1	3/5/2023 10:39:00 PM
2-Hexanone	ND	5.00		µg/L	1	3/5/2023 10:39:00 PM
4-Chlorotoluene	ND	0.500		µg/L	1	3/5/2023 10:39:00 PM
4-Methyl-2-pentanone	ND	5.00		µg/L	1	3/5/2023 10:39:00 PM
Acetone	ND	5.00		µg/L	1	3/5/2023 10:39:00 PM
Benzene	ND	0.500		µg/L	1	3/5/2023 10:39:00 PM
Bromobenzene	ND	0.500		µg/L	1	3/5/2023 10:39:00 PM
Bromodichloromethane	ND	0.500		µg/L	1	3/5/2023 10:39:00 PM
Bromoform	ND	0.500		µg/L	1	3/5/2023 10:39:00 PM
Bromomethane	ND	1.00		µg/L	1	3/5/2023 10:39:00 PM
Carbon tetrachloride	ND	0.500		µg/L	1	3/5/2023 10:39:00 PM
Chlorobenzene	ND	0.500		µg/L	1	3/5/2023 10:39:00 PM
Chlorobromomethane	ND	0.500		µg/L	1	3/5/2023 10:39:00 PM
Chlorodibromomethane	ND	0.500		µg/L	1	3/5/2023 10:39:00 PM
Chloroethane	ND	0.500		µg/L	1	3/5/2023 10:39:00 PM
Chloroform	ND	0.500		µg/L	1	3/5/2023 10:39:00 PM
Chloromethane	ND	0.500		µg/L	1	3/5/2023 10:39:00 PM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	3/5/2023 10:39:00 PM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	3/5/2023 10:39:00 PM
Dibromomethane	ND	0.500		µg/L	1	3/5/2023 10:39:00 PM
Dichlorodifluoromethane	ND	0.500		µg/L	1	3/5/2023 10:39:00 PM
Ethylbenzene	ND	0.500		µg/L	1	3/5/2023 10:39:00 PM
Hexachloro-1,3-butadiene	ND	0.500		µg/L	1	3/5/2023 10:39:00 PM
Isopropylbenzene	ND	0.500		µg/L	1	3/5/2023 10:39:00 PM
m,p-Xylene	ND	0.500		µg/L	1	3/5/2023 10:39:00 PM
Methylene chloride	ND	0.500		µg/L	1	3/5/2023 10:39:00 PM
MTBE	ND	0.500		µg/L	1	3/5/2023 10:39:00 PM
n-Butylbenzene	ND	0.500		µg/L	1	3/5/2023 10:39:00 PM
n-Propylbenzene	ND	0.500		µg/L	1	3/5/2023 10:39:00 PM

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

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Analytical Report

(consolidated)

WO#: 23030046

Date Reported: 3/9/2023

CLIENT: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP
Lab ID: 23030046-001
Client Sample ID: PW-201 Well 008

Collection Date: 2/28/2023 9:46:00 AM

Matrix: DRINKING WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	------	-------	----	---------------

DRINKING WATER VOCS (EPA 524.2)
VOC-GC/MS (524.2)

E524.2

Analyst: **ZDA**

o-Xylene	ND	0.500		µg/L	1	3/5/2023 10:39:00 PM
p-Isopropyltoluene	ND	0.500		µg/L	1	3/5/2023 10:39:00 PM
sec-Butylbenzene	ND	0.500		µg/L	1	3/5/2023 10:39:00 PM
Styrene	ND	0.500		µg/L	1	3/5/2023 10:39:00 PM
Tert-amyl methyl ether	ND	0.500		µg/L	1	3/5/2023 10:39:00 PM
Tert-butyl Alcohol	ND	5.00		µg/L	1	3/5/2023 10:39:00 PM
tert-Butylbenzene	ND	0.500		µg/L	1	3/5/2023 10:39:00 PM
Tetrachloroethene	ND	0.500		µg/L	1	3/5/2023 10:39:00 PM
Toluene	ND	0.500		µg/L	1	3/5/2023 10:39:00 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	3/5/2023 10:39:00 PM
trans-1,3-Dichloropropene	ND	0.500		µg/L	1	3/5/2023 10:39:00 PM
Trichloroethene	ND	0.500		µg/L	1	3/5/2023 10:39:00 PM
Trichlorofluoromethane	ND	0.500		µg/L	1	3/5/2023 10:39:00 PM
Vinyl chloride	ND	0.500		µg/L	1	3/5/2023 10:39:00 PM
Xylenes, Total	ND	0.500		µg/L	1	3/5/2023 10:39:00 PM
Surr: 1,2-Dichlorobenzene-d4	83.9	70 - 130		%Rec	1	3/5/2023 10:39:00 PM
Surr: 4-Bromofluorobenzene	79.0	70 - 130		%Rec	1	3/5/2023 10:39:00 PM

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

SW8260

Analyst: **MES**

Freon-113	ND	5.00		µg/L	1	3/5/2023 1:02:00 AM
1,3-Butadiene	ND	5.00		µg/L	1	3/5/2023 1:02:00 AM
1,4-Dioxane	ND	25.0		µg/L	1	3/5/2023 1:02:00 AM
2,2-Dichloropropane	ND	5.00		µg/L	1	3/5/2023 1:02:00 AM
2-Butanone	ND	25.0		µg/L	1	3/5/2023 1:02:00 AM
2-Nitropropane	ND	50.0		µg/L	1	3/5/2023 1:02:00 AM
Acrylonitrile (2-propenenitrile)	ND	30.0		µg/L	1	3/5/2023 1:02:00 AM
Allyl chloride	ND	5.00		µg/L	1	3/5/2023 1:02:00 AM
Carbon disulfide	ND	5.00		µg/L	1	3/5/2023 1:02:00 AM
Chloroprene	ND	5.00		µg/L	1	3/5/2023 1:02:00 AM
Cyclohexanone	ND	5.00		µg/L	1	3/5/2023 1:02:00 AM
Ethyl Ether	ND	10.0		µg/L	1	3/5/2023 1:02:00 AM
Epichlorohydrin	ND	20.0		µg/L	1	3/5/2023 1:02:00 AM
ETBE	ND	5.00		µg/L	1	3/5/2023 1:02:00 AM

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

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>

Analytical Report

(consolidated)

WO#: 23030046

Date Reported: 3/9/2023

CLIENT: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP
Lab ID: 23030046-001
Client Sample ID: PW-201 Well 008

Collection Date: 2/28/2023 9:46:00 AM

Matrix: DRINKING WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOC ANALYSIS (8260D)				SW8260	Analyst: MES	
VOC BY GC/MS (8260D)						
Ethyl acrylate	ND	5.00		µg/L	1	3/5/2023 1:02:00 AM
Ethyl methacrylate	ND	5.00		µg/L	1	3/5/2023 1:02:00 AM
Hexachloroethane	ND	5.00		µg/L	1	3/5/2023 1:02:00 AM
Diisopropyl ether (DIPE)	ND	5.00		µg/L	1	3/5/2023 1:02:00 AM
Methacrylonitrile	ND	5.00		µg/L	1	3/5/2023 1:02:00 AM
Methyl acrylate	ND	5.00		µg/L	1	3/5/2023 1:02:00 AM
Methyl methacrylate	ND	5.00		µg/L	1	3/5/2023 1:02:00 AM
Propionitrile	ND	5.00		µg/L	1	3/5/2023 1:02:00 AM
trans-1,4-Dichloro-2-butene	ND	5.00		µg/L	1	3/5/2023 1:02:00 AM
Vinyl acetate	ND	5.00		µg/L	1	3/5/2023 1:02:00 AM
1,2,3-Trimethylbenzene	ND	5.00		µg/L	1	3/5/2023 1:02:00 AM
Surr: 4-Bromofluorobenzene	93.3	70 - 130		%Rec	1	3/5/2023 1:02:00 AM
Surr: Dibromofluoromethane	102	70 - 130		%Rec	1	3/5/2023 1:02:00 AM
Surr: Toluene-d8	100	70 - 130		%Rec	1	3/5/2023 1:02:00 AM

VOC TENTATIVELY IDENTIFIED COMPOUNDS (TICS)				SW8260	Analyst: MES	
TIC: 1-Chlorobutane	ND			µg/L	1	3/5/2023 1:02:00 AM
TIC: 1-Methylnaphthalene	ND			µg/L	1	3/5/2023 1:02:00 AM
TIC: 2-Butyloxyethyl acetate	ND			µg/L	1	3/5/2023 1:02:00 AM
TIC: 2-Ethylhexyl acrylate	ND			µg/L	1	3/5/2023 1:02:00 AM
TIC: Benzyl chloride	ND			µg/L	1	3/5/2023 1:02:00 AM
TIC: Bromoethane	ND			µg/L	1	3/5/2023 1:02:00 AM
TIC: Chloroacetonitrile	ND			µg/L	1	3/5/2023 1:02:00 AM
TIC: n-Butyl acrylate	ND			µg/L	1	3/5/2023 1:02:00 AM
TIC: Pentachloroethane	ND			µg/L	1	3/5/2023 1:02:00 AM

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

Original



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

Analytical Report

(consolidated)

WO#: 23030046

Date Reported: 3/9/2023

CLIENT: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP
Lab ID: 23030046-002
Client Sample ID: PW-202 Rhoades Well

Collection Date: 2/28/2023 10:35:00 AM

Matrix: DRINKING WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA504.-DW					E504.1	E504.1
EDB, DBCP, 123TCP BY GC (EPA 504.1)						Analyst: PGP
Dibromochloropropane	ND	0.0400		µg/L	1	3/6/2023 5:51:00 PM
Ethylene dibromide	ND	0.0200		µg/L	1	3/6/2023 5:51:00 PM
DRINKING WATER ORGANIC COMPOUNDS (EPA 525)					E525	525
SYNTHETIC ORGANIC COMPOUNDS BY GC/MS (EPA 525.3)						Analyst: MES
2,4-Dinitrotoluene	ND	0.198		µg/L	1	3/8/2023 1:00:00 AM
Acenaphthylene	ND	0.0990		µg/L	1	3/8/2023 1:00:00 AM
Anthracene	ND	0.0990		µg/L	1	3/8/2023 1:00:00 AM
Benzo(a)anthracene	ND	0.0990		µg/L	1	3/8/2023 1:00:00 AM
Benzo(a)pyrene	ND	0.0990		µg/L	1	3/8/2023 1:00:00 AM
Benzo(b)fluoranthene	ND	0.0990		µg/L	1	3/8/2023 1:00:00 AM
Benzo(g,h,i)perylene	ND	0.0990		µg/L	1	3/8/2023 1:00:00 AM
Benzo(k)fluoranthene	ND	0.0990		µg/L	1	3/8/2023 1:00:00 AM
Bis(2-ethylhexyl) phthalate	ND	0.198		µg/L	1	3/8/2023 1:00:00 AM
Butyl benzyl phthalate	ND	0.198		µg/L	1	3/8/2023 1:00:00 AM
Chrysene	ND	0.0990		µg/L	1	3/8/2023 1:00:00 AM
Dibenz(a,h)anthracene	ND	0.0990		µg/L	1	3/8/2023 1:00:00 AM
Diethyl phthalate	ND	0.0990		µg/L	1	3/8/2023 1:00:00 AM
Dimethyl phthalate	ND	0.198		µg/L	1	3/8/2023 1:00:00 AM
Di-n-butyl phthalate	0.366	0.198		µg/L	1	3/8/2023 1:00:00 AM
Fluorene	ND	0.0990		µg/L	1	3/8/2023 1:00:00 AM
Hexachlorobenzene	ND	0.0990		µg/L	1	3/8/2023 1:00:00 AM
Hexachlorocyclopentadiene	ND	0.0990	QL-	µg/L	1	3/8/2023 1:00:00 AM
Indeno(1,2,3-cd)pyrene	ND	0.990		µg/L	1	3/8/2023 1:00:00 AM
Isophorone	ND	0.198		µg/L	1	3/8/2023 1:00:00 AM
Phenanthrene	ND	0.0990		µg/L	1	3/8/2023 1:00:00 AM
Pyrene	ND	0.0990		µg/L	1	3/8/2023 1:00:00 AM
Surr: 1,3-Dimethyl-2-nitrobenz...	85.6	70 - 130		%Rec	1	3/8/2023 1:00:00 AM
Surr: Benzo(a)pyrene-d12	96.6	70 - 130		%Rec	1	3/8/2023 1:00:00 AM
Surr: Triphenyl phosphite	115	70 - 130		%Rec	1	3/8/2023 1:00:00 AM
SVOC BY SW8270E					SW8270	SW3510C
SVOC BY 8270E						Analyst: JAP
Benzoic acid	ND	15.4		µg/L	1	3/6/2023 2:23:00 PM

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

Original



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

Analytical Report

(consolidated)

WO#: 23030046

Date Reported: 3/9/2023

CLIENT: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP
Lab ID: 23030046-002
Client Sample ID: PW-202 Rhoades Well

Collection Date: 2/28/2023 10:35:00 AM

Matrix: DRINKING WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SVOC BY SW8270E					SW8270	SW3510C
SVOC BY 8270E						Analyst: JAP

2,6-Dinitrotoluene	ND	0.962		µg/L	1	3/6/2023 2:23:00 PM
2-Methylnaphthalene	ND	0.962		µg/L	1	3/6/2023 2:23:00 PM
3,3'-Dichlorobenzidine	ND	9.62		µg/L	1	3/6/2023 2:23:00 PM
4-Nitrophenol	ND	4.81		µg/L	1	3/6/2023 2:23:00 PM
Acenaphthene	ND	0.962		µg/L	1	3/6/2023 2:23:00 PM
Bis(2-chloroethyl) ether	ND	0.962		µg/L	1	3/6/2023 2:23:00 PM
Di-n-octyl phthalate	ND	4.81	QL+	µg/L	1	3/6/2023 2:23:00 PM
Fluoranthene	ND	0.962		µg/L	1	3/6/2023 2:23:00 PM
Naphthalene	ND	0.962		µg/L	1	3/6/2023 2:23:00 PM
Phenol	ND	0.962		µg/L	1	3/6/2023 2:23:00 PM
3&4-Methylphenol	ND	0.962		µg/L	1	3/6/2023 2:23:00 PM
Surr: 2-Fluorophenol	56.3	20 - 130	m	%Rec	1	3/6/2023 2:23:00 PM
Surr: Phenol-d6	33.7	20 - 130		%Rec	1	3/6/2023 2:23:00 PM
Surr: Nitrobenzene-d5	89.1	27.4 - 130		%Rec	1	3/6/2023 2:23:00 PM
Surr: 2,4,6-Tribromophenol	82.5	54.3 - 133		%Rec	1	3/6/2023 2:23:00 PM
Surr: 2-Fluorobiphenyl	94.3	25.6 - 130		%Rec	1	3/6/2023 2:23:00 PM
Surr: p-Terphenyl-d14	105	20 - 181		%Rec	1	3/6/2023 2:23:00 PM

DRINKING WATER VOCs (EPA 524.2)					E524.2	Analyst: ZDA
VOC-GC/MS (524.2)						

1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	3/5/2023 11:08:00 PM
1,1,1-Trichloroethane	ND	0.500		µg/L	1	3/5/2023 11:08:00 PM
1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	3/5/2023 11:08:00 PM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	3/5/2023 11:08:00 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/5/2023 11:08:00 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	3/5/2023 11:08:00 PM
1,1-Dichloropropene	ND	0.500		µg/L	1	3/5/2023 11:08:00 PM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	3/5/2023 11:08:00 PM
1,2,3-Trichloropropane	ND	0.500		µg/L	1	3/5/2023 11:08:00 PM
1,2,4-Trichlorobenzene	ND	0.500		µg/L	1	3/5/2023 11:08:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	3/5/2023 11:08:00 PM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	3/5/2023 11:08:00 PM
1,2-Dichloroethane	ND	0.500		µg/L	1	3/5/2023 11:08:00 PM
1,2-Dichloropropane	ND	0.500		µg/L	1	3/5/2023 11:08:00 PM

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

Original



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

Analytical Report

(consolidated)

WO#: 23030046

Date Reported: 3/9/2023

CLIENT: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP
Lab ID: 23030046-002
Client Sample ID: PW-202 Rhoades Well

Collection Date: 2/28/2023 10:35:00 AM

Matrix: DRINKING WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DRINKING WATER VOCs (EPA 524.2)				E524.2	Analyst: ZDA	
VOC-GC/MS (524.2)						
1,3,5-Trimethylbenzene	ND	0.500		µg/L	1	3/5/2023 11:08:00 PM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	3/5/2023 11:08:00 PM
1,3-Dichloropropane	ND	0.500		µg/L	1	3/5/2023 11:08:00 PM
1,3-Dichloropropene, Total	ND	1.00		µg/L	1	3/5/2023 11:08:00 PM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	3/5/2023 11:08:00 PM
2-Chlorotoluene	ND	0.500		µg/L	1	3/5/2023 11:08:00 PM
2-Hexanone	ND	5.00		µg/L	1	3/5/2023 11:08:00 PM
4-Chlorotoluene	ND	0.500		µg/L	1	3/5/2023 11:08:00 PM
4-Methyl-2-pentanone	ND	5.00		µg/L	1	3/5/2023 11:08:00 PM
Acetone	ND	5.00		µg/L	1	3/5/2023 11:08:00 PM
Benzene	ND	0.500		µg/L	1	3/5/2023 11:08:00 PM
Bromobenzene	ND	0.500		µg/L	1	3/5/2023 11:08:00 PM
Bromodichloromethane	ND	0.500		µg/L	1	3/5/2023 11:08:00 PM
Bromoform	ND	0.500		µg/L	1	3/5/2023 11:08:00 PM
Bromomethane	ND	1.00		µg/L	1	3/5/2023 11:08:00 PM
Carbon tetrachloride	ND	0.500		µg/L	1	3/5/2023 11:08:00 PM
Chlorobenzene	ND	0.500		µg/L	1	3/5/2023 11:08:00 PM
Chlorobromomethane	ND	0.500		µg/L	1	3/5/2023 11:08:00 PM
Chlorodibromomethane	ND	0.500		µg/L	1	3/5/2023 11:08:00 PM
Chloroethane	ND	0.500		µg/L	1	3/5/2023 11:08:00 PM
Chloroform	ND	0.500		µg/L	1	3/5/2023 11:08:00 PM
Chloromethane	ND	0.500		µg/L	1	3/5/2023 11:08:00 PM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	3/5/2023 11:08:00 PM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	3/5/2023 11:08:00 PM
Dibromomethane	ND	0.500		µg/L	1	3/5/2023 11:08:00 PM
Dichlorodifluoromethane	ND	0.500		µg/L	1	3/5/2023 11:08:00 PM
Ethylbenzene	ND	0.500		µg/L	1	3/5/2023 11:08:00 PM
Hexachloro-1,3-butadiene	ND	0.500		µg/L	1	3/5/2023 11:08:00 PM
Isopropylbenzene	ND	0.500		µg/L	1	3/5/2023 11:08:00 PM
m,p-Xylene	ND	0.500		µg/L	1	3/5/2023 11:08:00 PM
Methylene chloride	ND	0.500		µg/L	1	3/5/2023 11:08:00 PM
MTBE	ND	0.500		µg/L	1	3/5/2023 11:08:00 PM
n-Butylbenzene	ND	0.500		µg/L	1	3/5/2023 11:08:00 PM
n-Propylbenzene	ND	0.500		µg/L	1	3/5/2023 11:08:00 PM

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

Original



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Analytical Report

(consolidated)

WO#: 23030046

Date Reported: 3/9/2023

CLIENT: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP
Lab ID: 23030046-002
Client Sample ID: PW-202 Rhoades Well

Collection Date: 2/28/2023 10:35:00 AM

Matrix: DRINKING WATER

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

E524.2

Analyst: **ZDA**

o-Xylene	ND	0.500		µg/L	1	3/5/2023 11:08:00 PM
p-Isopropyltoluene	ND	0.500		µg/L	1	3/5/2023 11:08:00 PM
sec-Butylbenzene	ND	0.500		µg/L	1	3/5/2023 11:08:00 PM
Styrene	ND	0.500		µg/L	1	3/5/2023 11:08:00 PM
Tert-amyl methyl ether	ND	0.500		µg/L	1	3/5/2023 11:08:00 PM
Tert-butyl Alcohol	ND	5.00		µg/L	1	3/5/2023 11:08:00 PM
tert-Butylbenzene	ND	0.500		µg/L	1	3/5/2023 11:08:00 PM
Tetrachloroethene	ND	0.500		µg/L	1	3/5/2023 11:08:00 PM
Toluene	ND	0.500		µg/L	1	3/5/2023 11:08:00 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	3/5/2023 11:08:00 PM
trans-1,3-Dichloropropene	ND	0.500		µg/L	1	3/5/2023 11:08:00 PM
Trichloroethene	ND	0.500		µg/L	1	3/5/2023 11:08:00 PM
Trichlorofluoromethane	ND	0.500		µg/L	1	3/5/2023 11:08:00 PM
Vinyl chloride	ND	0.500		µg/L	1	3/5/2023 11:08:00 PM
Xylenes, Total	ND	0.500		µg/L	1	3/5/2023 11:08:00 PM
Surr: 1,2-Dichlorobenzene-d4	85.7	70 - 130		%Rec	1	3/5/2023 11:08:00 PM
Surr: 4-Bromofluorobenzene	85.2	70 - 130		%Rec	1	3/5/2023 11:08:00 PM

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

SW8260

Analyst: **MES**

Freon-113	ND	5.00		µg/L	1	3/5/2023 1:25:00 AM
1,3-Butadiene	ND	5.00		µg/L	1	3/5/2023 1:25:00 AM
1,4-Dioxane	ND	25.0		µg/L	1	3/5/2023 1:25:00 AM
2,2-Dichloropropane	ND	5.00		µg/L	1	3/5/2023 1:25:00 AM
2-Butanone	ND	25.0		µg/L	1	3/5/2023 1:25:00 AM
2-Nitropropane	ND	50.0		µg/L	1	3/5/2023 1:25:00 AM
Acrylonitrile (2-propenenitrile)	ND	30.0		µg/L	1	3/5/2023 1:25:00 AM
Allyl chloride	ND	5.00		µg/L	1	3/5/2023 1:25:00 AM
Carbon disulfide	ND	5.00		µg/L	1	3/5/2023 1:25:00 AM
Chloroprene	ND	5.00		µg/L	1	3/5/2023 1:25:00 AM
Cyclohexanone	ND	5.00		µg/L	1	3/5/2023 1:25:00 AM
Ethyl Ether	ND	10.0		µg/L	1	3/5/2023 1:25:00 AM
Epichlorohydrin	ND	20.0		µg/L	1	3/5/2023 1:25:00 AM
ETBE	ND	5.00		µg/L	1	3/5/2023 1:25:00 AM

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

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

Analytical Report

(consolidated)

WO#: 23030046

Date Reported: 3/9/2023

CLIENT: OhioEPA-DDAGW **Collection Date:** 2/28/2023 10:35:00 AM
Project: Ohio EPA PWS-EP
Lab ID: 23030046-002 **Matrix:** DRINKING WATER
Client Sample ID: PW-202 Rhoades Well

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOC ANALYSIS (8260D)				SW8260	Analyst: MES	
VOC BY GC/MS (8260D)						
Ethyl acrylate	ND	5.00		µg/L	1	3/5/2023 1:25:00 AM
Ethyl methacrylate	ND	5.00		µg/L	1	3/5/2023 1:25:00 AM
Hexachloroethane	ND	5.00		µg/L	1	3/5/2023 1:25:00 AM
Diisopropyl ether (DIPE)	ND	5.00		µg/L	1	3/5/2023 1:25:00 AM
Methacrylonitrile	ND	5.00		µg/L	1	3/5/2023 1:25:00 AM
Methyl acrylate	ND	5.00		µg/L	1	3/5/2023 1:25:00 AM
Methyl methacrylate	ND	5.00		µg/L	1	3/5/2023 1:25:00 AM
Propionitrile	ND	5.00		µg/L	1	3/5/2023 1:25:00 AM
trans-1,4-Dichloro-2-butene	ND	5.00		µg/L	1	3/5/2023 1:25:00 AM
Vinyl acetate	ND	5.00		µg/L	1	3/5/2023 1:25:00 AM
1,2,3-Trimethylbenzene	ND	5.00		µg/L	1	3/5/2023 1:25:00 AM
Surr: 4-Bromofluorobenzene	92.8	70 - 130		%Rec	1	3/5/2023 1:25:00 AM
Surr: Dibromofluoromethane	102	70 - 130		%Rec	1	3/5/2023 1:25:00 AM
Surr: Toluene-d8	99.6	70 - 130		%Rec	1	3/5/2023 1:25:00 AM

VOC TENTATIVELY IDENTIFIED COMPOUNDS (TICS)				SW8260	Analyst: MES	
TIC: 1-Chlorobutane	ND			µg/L	1	3/5/2023 1:25:00 AM
TIC: 1-Methylnaphthalene	ND			µg/L	1	3/5/2023 1:25:00 AM
TIC: 2-Butyloxyethyl acetate	ND			µg/L	1	3/5/2023 1:25:00 AM
TIC: 2-Ethylhexyl acrylate	ND			µg/L	1	3/5/2023 1:25:00 AM
TIC: Benzyl chloride	ND			µg/L	1	3/5/2023 1:25:00 AM
TIC: Bromoethane	ND			µg/L	1	3/5/2023 1:25:00 AM
TIC: Chloroacetonitrile	ND			µg/L	1	3/5/2023 1:25:00 AM
TIC: n-Butyl acrylate	ND			µg/L	1	3/5/2023 1:25:00 AM
TIC: Pentachloroethane	ND			µg/L	1	3/5/2023 1:25:00 AM

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

Original



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Analytical Report

(consolidated)

WO#: 23030046

Date Reported: 3/9/2023

CLIENT: OhioEPA-DDAGW **Collection Date:** 2/28/2023 11:25:00 AM
Project: Ohio EPA PWS-EP
Lab ID: 23030046-003 **Matrix:** DRINKING WATER
Client Sample ID: PW-203 Nulf Well

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA504.-DW					E504.1	E504.1
EDB, DBCP, 123TCP BY GC (EPA 504.1)						Analyst: PGP
Dibromochloropropane	ND	0.0400		µg/L	1	3/6/2023 6:11:00 PM
Ethylene dibromide	ND	0.0200		µg/L	1	3/6/2023 6:11:00 PM
DRINKING WATER ORGANIC COMPOUNDS (EPA 525)					E525	525
SYNTHETIC ORGANIC COMPOUNDS BY GC/MS (EPA 525.3)						Analyst: MES
2,4-Dinitrotoluene	ND	0.198		µg/L	1	3/8/2023 1:47:00 AM
Acenaphthylene	ND	0.0990		µg/L	1	3/8/2023 1:47:00 AM
Anthracene	ND	0.0990		µg/L	1	3/8/2023 1:47:00 AM
Benzo(a)anthracene	ND	0.0990		µg/L	1	3/8/2023 1:47:00 AM
Benzo(a)pyrene	ND	0.0990		µg/L	1	3/8/2023 1:47:00 AM
Benzo(b)fluoranthene	ND	0.0990		µg/L	1	3/8/2023 1:47:00 AM
Benzo(g,h,i)perylene	ND	0.0990		µg/L	1	3/8/2023 1:47:00 AM
Benzo(k)fluoranthene	ND	0.0990		µg/L	1	3/8/2023 1:47:00 AM
Bis(2-ethylhexyl) phthalate	ND	0.198		µg/L	1	3/8/2023 1:47:00 AM
Butyl benzyl phthalate	ND	0.198		µg/L	1	3/8/2023 1:47:00 AM
Chrysene	ND	0.0990		µg/L	1	3/8/2023 1:47:00 AM
Dibenz(a,h)anthracene	ND	0.0990		µg/L	1	3/8/2023 1:47:00 AM
Diethyl phthalate	ND	0.0990		µg/L	1	3/8/2023 1:47:00 AM
Dimethyl phthalate	ND	0.198		µg/L	1	3/8/2023 1:47:00 AM
Di-n-butyl phthalate	ND	0.198		µg/L	1	3/8/2023 1:47:00 AM
Fluorene	ND	0.0990		µg/L	1	3/8/2023 1:47:00 AM
Hexachlorobenzene	ND	0.0990		µg/L	1	3/8/2023 1:47:00 AM
Hexachlorocyclopentadiene	ND	0.0990	QL-	µg/L	1	3/8/2023 1:47:00 AM
Indeno(1,2,3-cd)pyrene	ND	0.990		µg/L	1	3/8/2023 1:47:00 AM
Isophorone	ND	0.198		µg/L	1	3/8/2023 1:47:00 AM
Phenanthrene	ND	0.0990		µg/L	1	3/8/2023 1:47:00 AM
Pyrene	ND	0.0990		µg/L	1	3/8/2023 1:47:00 AM
Surr: 1,3-Dimethyl-2-nitrobenz...	87.6	70 - 130		%Rec	1	3/8/2023 1:47:00 AM
Surr: Benzo(a)pyrene-d12	94.4	70 - 130		%Rec	1	3/8/2023 1:47:00 AM
Surr: Triphenyl phosphite	115	70 - 130		%Rec	1	3/8/2023 1:47:00 AM
SVOC BY SW8270E					SW8270	SW3510C
SVOC BY 8270E						Analyst: JAP
Benzoic acid	ND	15.4		µg/L	1	3/6/2023 2:54:00 PM

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

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Analytical Report

(consolidated)

WO#: 23030046

Date Reported: 3/9/2023

CLIENT: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP
Lab ID: 23030046-003
Client Sample ID: PW-203 Nulf Well

Collection Date: 2/28/2023 11:25:00 AM

Matrix: DRINKING WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SVOC BY SW8270E					SW8270	SW3510C
SVOC BY 8270E						Analyst: JAP

2,6-Dinitrotoluene	ND	0.962		µg/L	1	3/6/2023 2:54:00 PM
2-Methylnaphthalene	ND	0.962		µg/L	1	3/6/2023 2:54:00 PM
3,3'-Dichlorobenzidine	ND	9.62		µg/L	1	3/6/2023 2:54:00 PM
4-Nitrophenol	ND	4.81		µg/L	1	3/6/2023 2:54:00 PM
Acenaphthene	ND	0.962		µg/L	1	3/6/2023 2:54:00 PM
Bis(2-chloroethyl) ether	ND	0.962		µg/L	1	3/6/2023 2:54:00 PM
Di-n-octyl phthalate	ND	4.81	QL+	µg/L	1	3/6/2023 2:54:00 PM
Fluoranthene	ND	0.962		µg/L	1	3/6/2023 2:54:00 PM
Naphthalene	ND	0.962		µg/L	1	3/6/2023 2:54:00 PM
Phenol	ND	0.962		µg/L	1	3/6/2023 2:54:00 PM
3&4-Methylphenol	ND	0.962		µg/L	1	3/6/2023 2:54:00 PM
Surr: 2-Fluorophenol	48.4	20 - 130		%Rec	1	3/6/2023 2:54:00 PM
Surr: Phenol-d6	32.6	20 - 130		%Rec	1	3/6/2023 2:54:00 PM
Surr: Nitrobenzene-d5	87.2	27.4 - 130		%Rec	1	3/6/2023 2:54:00 PM
Surr: 2,4,6-Tribromophenol	80.2	54.3 - 133		%Rec	1	3/6/2023 2:54:00 PM
Surr: 2-Fluorobiphenyl	93.7	25.6 - 130		%Rec	1	3/6/2023 2:54:00 PM
Surr: p-Terphenyl-d14	104	20 - 181		%Rec	1	3/6/2023 2:54:00 PM

DRINKING WATER VOCs (EPA 524.2)					E524.2	Analyst: ZDA
VOC-GC/MS (524.2)						

1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	3/6/2023 12:05:00 AM
1,1,1-Trichloroethane	ND	0.500		µg/L	1	3/6/2023 12:05:00 AM
1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	3/6/2023 12:05:00 AM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	3/6/2023 12:05:00 AM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/6/2023 12:05:00 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	3/6/2023 12:05:00 AM
1,1-Dichloropropene	ND	0.500		µg/L	1	3/6/2023 12:05:00 AM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	3/6/2023 12:05:00 AM
1,2,3-Trichloropropane	ND	0.500		µg/L	1	3/6/2023 12:05:00 AM
1,2,4-Trichlorobenzene	ND	0.500		µg/L	1	3/6/2023 12:05:00 AM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	3/6/2023 12:05:00 AM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	3/6/2023 12:05:00 AM
1,2-Dichloroethane	ND	0.500		µg/L	1	3/6/2023 12:05:00 AM
1,2-Dichloropropane	ND	0.500		µg/L	1	3/6/2023 12:05:00 AM

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

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Analytical Report

(consolidated)

WO#: 23030046

Date Reported: 3/9/2023

CLIENT: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP
Lab ID: 23030046-003
Client Sample ID: PW-203 Nulf Well

Collection Date: 2/28/2023 11:25:00 AM

Matrix: DRINKING WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DRINKING WATER VOCS (EPA 524.2)				E524.2	Analyst: ZDA	
VOC-GC/MS (524.2)						
1,3,5-Trimethylbenzene	ND	0.500		µg/L	1	3/6/2023 12:05:00 AM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	3/6/2023 12:05:00 AM
1,3-Dichloropropane	ND	0.500		µg/L	1	3/6/2023 12:05:00 AM
1,3-Dichloropropene, Total	ND	1.00		µg/L	1	3/6/2023 12:05:00 AM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	3/6/2023 12:05:00 AM
2-Chlorotoluene	ND	0.500		µg/L	1	3/6/2023 12:05:00 AM
2-Hexanone	ND	5.00		µg/L	1	3/6/2023 12:05:00 AM
4-Chlorotoluene	ND	0.500		µg/L	1	3/6/2023 12:05:00 AM
4-Methyl-2-pentanone	ND	5.00		µg/L	1	3/6/2023 12:05:00 AM
Acetone	ND	5.00		µg/L	1	3/6/2023 12:05:00 AM
Benzene	ND	0.500		µg/L	1	3/6/2023 12:05:00 AM
Bromobenzene	ND	0.500		µg/L	1	3/6/2023 12:05:00 AM
Bromodichloromethane	ND	0.500		µg/L	1	3/6/2023 12:05:00 AM
Bromoform	ND	0.500		µg/L	1	3/6/2023 12:05:00 AM
Bromomethane	ND	1.00		µg/L	1	3/6/2023 12:05:00 AM
Carbon tetrachloride	ND	0.500		µg/L	1	3/6/2023 12:05:00 AM
Chlorobenzene	ND	0.500		µg/L	1	3/6/2023 12:05:00 AM
Chlorobromomethane	ND	0.500		µg/L	1	3/6/2023 12:05:00 AM
Chlorodibromomethane	ND	0.500		µg/L	1	3/6/2023 12:05:00 AM
Chloroethane	ND	0.500		µg/L	1	3/6/2023 12:05:00 AM
Chloroform	ND	0.500		µg/L	1	3/6/2023 12:05:00 AM
Chloromethane	ND	0.500		µg/L	1	3/6/2023 12:05:00 AM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	3/6/2023 12:05:00 AM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	3/6/2023 12:05:00 AM
Dibromomethane	ND	0.500		µg/L	1	3/6/2023 12:05:00 AM
Dichlorodifluoromethane	ND	0.500		µg/L	1	3/6/2023 12:05:00 AM
Ethylbenzene	ND	0.500		µg/L	1	3/6/2023 12:05:00 AM
Hexachloro-1,3-butadiene	ND	0.500		µg/L	1	3/6/2023 12:05:00 AM
Isopropylbenzene	ND	0.500		µg/L	1	3/6/2023 12:05:00 AM
m,p-Xylene	ND	0.500		µg/L	1	3/6/2023 12:05:00 AM
Methylene chloride	ND	0.500		µg/L	1	3/6/2023 12:05:00 AM
MTBE	ND	0.500		µg/L	1	3/6/2023 12:05:00 AM
n-Butylbenzene	ND	0.500		µg/L	1	3/6/2023 12:05:00 AM
n-Propylbenzene	ND	0.500		µg/L	1	3/6/2023 12:05:00 AM

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

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Analytical Report

(consolidated)

WO#: 23030046

Date Reported: 3/9/2023

CLIENT: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP
Lab ID: 23030046-003
Client Sample ID: PW-203 Nulf Well

Collection Date: 2/28/2023 11:25:00 AM

Matrix: DRINKING WATER

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

E524.2

Analyst: **ZDA**

o-Xylene	ND	0.500		µg/L	1	3/6/2023 12:05:00 AM
p-Isopropyltoluene	ND	0.500		µg/L	1	3/6/2023 12:05:00 AM
sec-Butylbenzene	ND	0.500		µg/L	1	3/6/2023 12:05:00 AM
Styrene	ND	0.500		µg/L	1	3/6/2023 12:05:00 AM
Tert-amyl methyl ether	ND	0.500		µg/L	1	3/6/2023 12:05:00 AM
Tert-butyl Alcohol	ND	5.00		µg/L	1	3/6/2023 12:05:00 AM
tert-Butylbenzene	ND	0.500		µg/L	1	3/6/2023 12:05:00 AM
Tetrachloroethene	ND	0.500		µg/L	1	3/6/2023 12:05:00 AM
Toluene	ND	0.500		µg/L	1	3/6/2023 12:05:00 AM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	3/6/2023 12:05:00 AM
trans-1,3-Dichloropropene	ND	0.500		µg/L	1	3/6/2023 12:05:00 AM
Trichloroethene	ND	0.500		µg/L	1	3/6/2023 12:05:00 AM
Trichlorofluoromethane	ND	0.500		µg/L	1	3/6/2023 12:05:00 AM
Vinyl chloride	ND	0.500		µg/L	1	3/6/2023 12:05:00 AM
Xylenes, Total	ND	0.500		µg/L	1	3/6/2023 12:05:00 AM
Surr: 1,2-Dichlorobenzene-d4	87.8	70 - 130		%Rec	1	3/6/2023 12:05:00 AM
Surr: 4-Bromofluorobenzene	83.5	70 - 130		%Rec	1	3/6/2023 12:05:00 AM

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

SW8260

Analyst: **MES**

Freon-113	ND	5.00		µg/L	1	3/5/2023 1:48:00 AM
1,3-Butadiene	ND	5.00		µg/L	1	3/5/2023 1:48:00 AM
1,4-Dioxane	ND	25.0		µg/L	1	3/5/2023 1:48:00 AM
2,2-Dichloropropane	ND	5.00		µg/L	1	3/5/2023 1:48:00 AM
2-Butanone	ND	25.0		µg/L	1	3/5/2023 1:48:00 AM
2-Nitropropane	ND	50.0		µg/L	1	3/5/2023 1:48:00 AM
Acrylonitrile (2-propenenitrile)	ND	30.0		µg/L	1	3/5/2023 1:48:00 AM
Allyl chloride	ND	5.00		µg/L	1	3/5/2023 1:48:00 AM
Carbon disulfide	ND	5.00		µg/L	1	3/5/2023 1:48:00 AM
Chloroprene	ND	5.00		µg/L	1	3/5/2023 1:48:00 AM
Cyclohexanone	ND	5.00		µg/L	1	3/5/2023 1:48:00 AM
Ethyl Ether	ND	10.0		µg/L	1	3/5/2023 1:48:00 AM
Epichlorohydrin	ND	20.0		µg/L	1	3/5/2023 1:48:00 AM
ETBE	ND	5.00		µg/L	1	3/5/2023 1:48:00 AM

Qualifiers:	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	M	Manual Integration used to determine area response	ND	Not Detected
	PL	Permit Limit	R	RPD outside accepted recovery limits
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Analytical Report

(consolidated)

WO#: 23030046

Date Reported: 3/9/2023

CLIENT: OhioEPA-DDAGW **Collection Date:** 2/28/2023 11:25:00 AM
Project: Ohio EPA PWS-EP
Lab ID: 23030046-003 **Matrix:** DRINKING WATER
Client Sample ID: PW-203 Nulf Well

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOC ANALYSIS (8260D)				SW8260	Analyst: MES	
VOC BY GC/MS (8260D)						
Ethyl acrylate	ND	5.00		µg/L	1	3/5/2023 1:48:00 AM
Ethyl methacrylate	ND	5.00		µg/L	1	3/5/2023 1:48:00 AM
Hexachloroethane	ND	5.00		µg/L	1	3/5/2023 1:48:00 AM
Diisopropyl ether (DIPE)	ND	5.00		µg/L	1	3/5/2023 1:48:00 AM
Methacrylonitrile	ND	5.00		µg/L	1	3/5/2023 1:48:00 AM
Methyl acrylate	ND	5.00		µg/L	1	3/5/2023 1:48:00 AM
Methyl methacrylate	ND	5.00		µg/L	1	3/5/2023 1:48:00 AM
Propionitrile	ND	5.00		µg/L	1	3/5/2023 1:48:00 AM
trans-1,4-Dichloro-2-butene	ND	5.00		µg/L	1	3/5/2023 1:48:00 AM
Vinyl acetate	ND	5.00		µg/L	1	3/5/2023 1:48:00 AM
1,2,3-Trimethylbenzene	ND	5.00		µg/L	1	3/5/2023 1:48:00 AM
Surr: 4-Bromofluorobenzene	91.6	70 - 130		%Rec	1	3/5/2023 1:48:00 AM
Surr: Dibromofluoromethane	101	70 - 130		%Rec	1	3/5/2023 1:48:00 AM
Surr: Toluene-d8	96.7	70 - 130		%Rec	1	3/5/2023 1:48:00 AM

VOC TENTATIVELY IDENTIFIED COMPOUNDS (TICS)				SW8260	Analyst: MES	
TIC: 1-Chlorobutane	ND			µg/L	1	3/5/2023 1:48:00 AM
TIC: 1-Methylnaphthalene	ND			µg/L	1	3/5/2023 1:48:00 AM
TIC: 2-Butyloxyethyl acetate	ND			µg/L	1	3/5/2023 1:48:00 AM
TIC: 2-Ethylhexyl acrylate	ND			µg/L	1	3/5/2023 1:48:00 AM
TIC: Benzyl chloride	ND			µg/L	1	3/5/2023 1:48:00 AM
TIC: Bromoethane	ND			µg/L	1	3/5/2023 1:48:00 AM
TIC: Chloroacetonitrile	ND			µg/L	1	3/5/2023 1:48:00 AM
TIC: n-Butyl acrylate	ND			µg/L	1	3/5/2023 1:48:00 AM
TIC: Pentachloroethane	ND			µg/L	1	3/5/2023 1:48:00 AM

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

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Analytical Report

(consolidated)

WO#: 23030046

Date Reported: 3/9/2023

CLIENT: OhioEPA-DDAGW **Collection Date:** 2/28/2023 12:04:00 PM
Project: Ohio EPA PWS-EP
Lab ID: 23030046-004 **Matrix:** DRINKING WATER
Client Sample ID: PW-204 Harding Well

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA504.-DW					E504.1	E504.1
EDB, DBCP, 123TCP BY GC (EPA 504.1)						Analyst: PGP
Dibromochloropropane	ND	0.0400		µg/L	1	3/6/2023 6:32:00 PM
Ethylene dibromide	ND	0.0200		µg/L	1	3/6/2023 6:32:00 PM
DRINKING WATER ORGANIC COMPOUNDS (EPA 525)					E525	525
SYNTHETIC ORGANIC COMPOUNDS BY GC/MS (EPA 525.3)						Analyst: MES
2,4-Dinitrotoluene	ND	0.196		µg/L	1	3/8/2023 2:33:00 AM
Acenaphthylene	ND	0.0980		µg/L	1	3/8/2023 2:33:00 AM
Anthracene	ND	0.0980		µg/L	1	3/8/2023 2:33:00 AM
Benzo(a)anthracene	ND	0.0980		µg/L	1	3/8/2023 2:33:00 AM
Benzo(a)pyrene	ND	0.0980		µg/L	1	3/8/2023 2:33:00 AM
Benzo(b)fluoranthene	ND	0.0980		µg/L	1	3/8/2023 2:33:00 AM
Benzo(g,h,i)perylene	ND	0.0980		µg/L	1	3/8/2023 2:33:00 AM
Benzo(k)fluoranthene	ND	0.0980		µg/L	1	3/8/2023 2:33:00 AM
Bis(2-ethylhexyl) phthalate	0.225	0.196		µg/L	1	3/8/2023 2:33:00 AM
Butyl benzyl phthalate	ND	0.196		µg/L	1	3/8/2023 2:33:00 AM
Chrysene	ND	0.0980		µg/L	1	3/8/2023 2:33:00 AM
Dibenz(a,h)anthracene	ND	0.0980		µg/L	1	3/8/2023 2:33:00 AM
Diethyl phthalate	ND	0.0980		µg/L	1	3/8/2023 2:33:00 AM
Dimethyl phthalate	ND	0.196		µg/L	1	3/8/2023 2:33:00 AM
Di-n-butyl phthalate	ND	0.196		µg/L	1	3/8/2023 2:33:00 AM
Fluorene	ND	0.0980		µg/L	1	3/8/2023 2:33:00 AM
Hexachlorobenzene	ND	0.0980		µg/L	1	3/8/2023 2:33:00 AM
Hexachlorocyclopentadiene	ND	0.0980	QL-	µg/L	1	3/8/2023 2:33:00 AM
Indeno(1,2,3-cd)pyrene	ND	0.980		µg/L	1	3/8/2023 2:33:00 AM
Isophorone	ND	0.196		µg/L	1	3/8/2023 2:33:00 AM
Phenanthrene	ND	0.0980		µg/L	1	3/8/2023 2:33:00 AM
Pyrene	ND	0.0980		µg/L	1	3/8/2023 2:33:00 AM
Surr: 1,3-Dimethyl-2-nitrobenz...	79.0	70 - 130		%Rec	1	3/8/2023 2:33:00 AM
Surr: Benzo(a)pyrene-d12	112	70 - 130		%Rec	1	3/8/2023 2:33:00 AM
Surr: Triphenyl phosphite	124	70 - 130		%Rec	1	3/8/2023 2:33:00 AM
SVOC BY SW8270E					SW8270	SW3510C
SVOC BY 8270E						Analyst: JAP
Benzoic acid	ND	15.5		µg/L	1	3/6/2023 3:26:00 PM

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

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>

Analytical Report

(consolidated)

WO#: 23030046

Date Reported: 3/9/2023

CLIENT: OhioEPA-DDAGW **Collection Date:** 2/28/2023 12:04:00 PM
Project: Ohio EPA PWS-EP
Lab ID: 23030046-004 **Matrix:** DRINKING WATER
Client Sample ID: PW-204 Harding Well

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SVOC BY SW8270E					SW8270	SW3510C
SVOC BY 8270E						Analyst: JAP

2,6-Dinitrotoluene	ND	0.971		µg/L	1	3/6/2023 3:26:00 PM
2-Methylnaphthalene	ND	0.971		µg/L	1	3/6/2023 3:26:00 PM
3,3'-Dichlorobenzidine	ND	9.71		µg/L	1	3/6/2023 3:26:00 PM
4-Nitrophenol	ND	4.85		µg/L	1	3/6/2023 3:26:00 PM
Acenaphthene	ND	0.971		µg/L	1	3/6/2023 3:26:00 PM
Bis(2-chloroethyl) ether	ND	0.971		µg/L	1	3/6/2023 3:26:00 PM
Di-n-octyl phthalate	ND	4.85	QL+	µg/L	1	3/6/2023 3:26:00 PM
Fluoranthene	ND	0.971		µg/L	1	3/6/2023 3:26:00 PM
Naphthalene	ND	0.971		µg/L	1	3/6/2023 3:26:00 PM
Phenol	ND	0.971		µg/L	1	3/6/2023 3:26:00 PM
3&4-Methylphenol	ND	0.971		µg/L	1	3/6/2023 3:26:00 PM
Surr: 2-Fluorophenol	48.8	20 - 130		%Rec	1	3/6/2023 3:26:00 PM
Surr: Phenol-d6	32.2	20 - 130		%Rec	1	3/6/2023 3:26:00 PM
Surr: Nitrobenzene-d5	73.9	27.4 - 130		%Rec	1	3/6/2023 3:26:00 PM
Surr: 2,4,6-Tribromophenol	89.3	54.3 - 133		%Rec	1	3/6/2023 3:26:00 PM
Surr: 2-Fluorobiphenyl	72.4	25.6 - 130		%Rec	1	3/6/2023 3:26:00 PM
Surr: p-Terphenyl-d14	99.2	20 - 181		%Rec	1	3/6/2023 3:26:00 PM

DRINKING WATER VOCs (EPA 524.2)					E524.2	Analyst: ZDA
VOC-GC/MS (524.2)						

1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	3/6/2023 12:34:00 AM
1,1,1-Trichloroethane	ND	0.500		µg/L	1	3/6/2023 12:34:00 AM
1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	3/6/2023 12:34:00 AM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	3/6/2023 12:34:00 AM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/6/2023 12:34:00 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	3/6/2023 12:34:00 AM
1,1-Dichloropropene	ND	0.500		µg/L	1	3/6/2023 12:34:00 AM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	3/6/2023 12:34:00 AM
1,2,3-Trichloropropane	ND	0.500		µg/L	1	3/6/2023 12:34:00 AM
1,2,4-Trichlorobenzene	ND	0.500		µg/L	1	3/6/2023 12:34:00 AM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	3/6/2023 12:34:00 AM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	3/6/2023 12:34:00 AM
1,2-Dichloroethane	ND	0.500		µg/L	1	3/6/2023 12:34:00 AM
1,2-Dichloropropane	ND	0.500		µg/L	1	3/6/2023 12:34:00 AM

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

Original



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

Analytical Report

(consolidated)

WO#: 23030046

Date Reported: 3/9/2023

CLIENT: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP
Lab ID: 23030046-004
Client Sample ID: PW-204 Harding Well

Collection Date: 2/28/2023 12:04:00 PM

Matrix: DRINKING WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DRINKING WATER VOCS (EPA 524.2)				E524.2	Analyst: ZDA	
VOC-GC/MS (524.2)						
1,3,5-Trimethylbenzene	ND	0.500		µg/L	1	3/6/2023 12:34:00 AM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	3/6/2023 12:34:00 AM
1,3-Dichloropropane	ND	0.500		µg/L	1	3/6/2023 12:34:00 AM
1,3-Dichloropropene, Total	ND	1.00		µg/L	1	3/6/2023 12:34:00 AM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	3/6/2023 12:34:00 AM
2-Chlorotoluene	ND	0.500		µg/L	1	3/6/2023 12:34:00 AM
2-Hexanone	ND	5.00		µg/L	1	3/6/2023 12:34:00 AM
4-Chlorotoluene	ND	0.500		µg/L	1	3/6/2023 12:34:00 AM
4-Methyl-2-pentanone	ND	5.00		µg/L	1	3/6/2023 12:34:00 AM
Acetone	ND	5.00		µg/L	1	3/6/2023 12:34:00 AM
Benzene	ND	0.500		µg/L	1	3/6/2023 12:34:00 AM
Bromobenzene	ND	0.500		µg/L	1	3/6/2023 12:34:00 AM
Bromodichloromethane	ND	0.500		µg/L	1	3/6/2023 12:34:00 AM
Bromoform	ND	0.500		µg/L	1	3/6/2023 12:34:00 AM
Bromomethane	ND	1.00		µg/L	1	3/6/2023 12:34:00 AM
Carbon tetrachloride	ND	0.500		µg/L	1	3/6/2023 12:34:00 AM
Chlorobenzene	ND	0.500		µg/L	1	3/6/2023 12:34:00 AM
Chlorobromomethane	ND	0.500		µg/L	1	3/6/2023 12:34:00 AM
Chlorodibromomethane	ND	0.500		µg/L	1	3/6/2023 12:34:00 AM
Chloroethane	ND	0.500		µg/L	1	3/6/2023 12:34:00 AM
Chloroform	ND	0.500		µg/L	1	3/6/2023 12:34:00 AM
Chloromethane	ND	0.500		µg/L	1	3/6/2023 12:34:00 AM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	3/6/2023 12:34:00 AM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	3/6/2023 12:34:00 AM
Dibromomethane	ND	0.500		µg/L	1	3/6/2023 12:34:00 AM
Dichlorodifluoromethane	ND	0.500		µg/L	1	3/6/2023 12:34:00 AM
Ethylbenzene	ND	0.500		µg/L	1	3/6/2023 12:34:00 AM
Hexachloro-1,3-butadiene	ND	0.500		µg/L	1	3/6/2023 12:34:00 AM
Isopropylbenzene	ND	0.500		µg/L	1	3/6/2023 12:34:00 AM
m,p-Xylene	ND	0.500		µg/L	1	3/6/2023 12:34:00 AM
Methylene chloride	ND	0.500		µg/L	1	3/6/2023 12:34:00 AM
MTBE	ND	0.500		µg/L	1	3/6/2023 12:34:00 AM
n-Butylbenzene	ND	0.500		µg/L	1	3/6/2023 12:34:00 AM
n-Propylbenzene	ND	0.500		µg/L	1	3/6/2023 12:34:00 AM

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

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Analytical Report

(consolidated)

WO#: 23030046

Date Reported: 3/9/2023

CLIENT: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP
Lab ID: 23030046-004
Client Sample ID: PW-204 Harding Well

Collection Date: 2/28/2023 12:04:00 PM

Matrix: DRINKING WATER

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

E524.2

Analyst: **ZDA**

o-Xylene	ND	0.500		µg/L	1	3/6/2023 12:34:00 AM
p-Isopropyltoluene	ND	0.500		µg/L	1	3/6/2023 12:34:00 AM
sec-Butylbenzene	ND	0.500		µg/L	1	3/6/2023 12:34:00 AM
Styrene	ND	0.500		µg/L	1	3/6/2023 12:34:00 AM
Tert-amyl methyl ether	ND	0.500		µg/L	1	3/6/2023 12:34:00 AM
Tert-butyl Alcohol	ND	5.00		µg/L	1	3/6/2023 12:34:00 AM
tert-Butylbenzene	ND	0.500		µg/L	1	3/6/2023 12:34:00 AM
Tetrachloroethene	ND	0.500		µg/L	1	3/6/2023 12:34:00 AM
Toluene	ND	0.500		µg/L	1	3/6/2023 12:34:00 AM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	3/6/2023 12:34:00 AM
trans-1,3-Dichloropropene	ND	0.500		µg/L	1	3/6/2023 12:34:00 AM
Trichloroethene	ND	0.500		µg/L	1	3/6/2023 12:34:00 AM
Trichlorofluoromethane	ND	0.500		µg/L	1	3/6/2023 12:34:00 AM
Vinyl chloride	ND	0.500		µg/L	1	3/6/2023 12:34:00 AM
Xylenes, Total	ND	0.500		µg/L	1	3/6/2023 12:34:00 AM
Surr: 1,2-Dichlorobenzene-d4	83.5	70 - 130		%Rec	1	3/6/2023 12:34:00 AM
Surr: 4-Bromofluorobenzene	81.4	70 - 130		%Rec	1	3/6/2023 12:34:00 AM

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

SW8260

Analyst: **MES**

Freon-113	ND	5.00		µg/L	1	3/5/2023 2:12:00 AM
1,3-Butadiene	ND	5.00		µg/L	1	3/5/2023 2:12:00 AM
1,4-Dioxane	ND	25.0		µg/L	1	3/5/2023 2:12:00 AM
2,2-Dichloropropane	ND	5.00		µg/L	1	3/5/2023 2:12:00 AM
2-Butanone	ND	25.0		µg/L	1	3/5/2023 2:12:00 AM
2-Nitropropane	ND	50.0		µg/L	1	3/5/2023 2:12:00 AM
Acrylonitrile (2-propenenitrile)	ND	30.0		µg/L	1	3/5/2023 2:12:00 AM
Allyl chloride	ND	5.00		µg/L	1	3/5/2023 2:12:00 AM
Carbon disulfide	ND	5.00		µg/L	1	3/5/2023 2:12:00 AM
Chloroprene	ND	5.00		µg/L	1	3/5/2023 2:12:00 AM
Cyclohexanone	ND	5.00		µg/L	1	3/5/2023 2:12:00 AM
Ethyl Ether	ND	10.0		µg/L	1	3/5/2023 2:12:00 AM
Epichlorohydrin	ND	20.0		µg/L	1	3/5/2023 2:12:00 AM
ETBE	ND	5.00		µg/L	1	3/5/2023 2:12:00 AM

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

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Analytical Report

(consolidated)

WO#: 23030046

Date Reported: 3/9/2023

CLIENT: OhioEPA-DDAGW **Collection Date:** 2/28/2023 12:04:00 PM
Project: Ohio EPA PWS-EP
Lab ID: 23030046-004 **Matrix:** DRINKING WATER
Client Sample ID: PW-204 Harding Well

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOC ANALYSIS (8260D)				SW8260	Analyst: MES	
VOC BY GC/MS (8260D)						
Ethyl acrylate	ND	5.00		µg/L	1	3/5/2023 2:12:00 AM
Ethyl methacrylate	ND	5.00		µg/L	1	3/5/2023 2:12:00 AM
Hexachloroethane	ND	5.00		µg/L	1	3/5/2023 2:12:00 AM
Diisopropyl ether (DIPE)	ND	5.00		µg/L	1	3/5/2023 2:12:00 AM
Methacrylonitrile	ND	5.00		µg/L	1	3/5/2023 2:12:00 AM
Methyl acrylate	ND	5.00		µg/L	1	3/5/2023 2:12:00 AM
Methyl methacrylate	ND	5.00		µg/L	1	3/5/2023 2:12:00 AM
Propionitrile	ND	5.00		µg/L	1	3/5/2023 2:12:00 AM
trans-1,4-Dichloro-2-butene	ND	5.00		µg/L	1	3/5/2023 2:12:00 AM
Vinyl acetate	ND	5.00		µg/L	1	3/5/2023 2:12:00 AM
1,2,3-Trimethylbenzene	ND	5.00		µg/L	1	3/5/2023 2:12:00 AM
Surr: 4-Bromofluorobenzene	91.4	70 - 130		%Rec	1	3/5/2023 2:12:00 AM
Surr: Dibromofluoromethane	103	70 - 130		%Rec	1	3/5/2023 2:12:00 AM
Surr: Toluene-d8	96.0	70 - 130		%Rec	1	3/5/2023 2:12:00 AM

VOC TENTATIVELY IDENTIFIED COMPOUNDS (TICS)				SW8260	Analyst: MES	
TIC: 1-Chlorobutane	ND			µg/L	1	3/5/2023 2:12:00 AM
TIC: 1-Methylnaphthalene	ND			µg/L	1	3/5/2023 2:12:00 AM
TIC: 2-Butyloxyethyl acetate	ND			µg/L	1	3/5/2023 2:12:00 AM
TIC: 2-Ethylhexyl acrylate	ND			µg/L	1	3/5/2023 2:12:00 AM
TIC: Benzyl chloride	ND			µg/L	1	3/5/2023 2:12:00 AM
TIC: Bromoethane	ND			µg/L	1	3/5/2023 2:12:00 AM
TIC: Chloroacetonitrile	ND			µg/L	1	3/5/2023 2:12:00 AM
TIC: n-Butyl acrylate	ND			µg/L	1	3/5/2023 2:12:00 AM
TIC: Pentachloroethane	ND			µg/L	1	3/5/2023 2:12:00 AM

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

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Analytical Report

(consolidated)

WO#: 23030046

Date Reported: 3/9/2023

CLIENT: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP
Lab ID: 23030046-005
Client Sample ID: PW-205 Zuch Well

Collection Date: 2/28/2023 12:56:00 PM

Matrix: DRINKING WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA504.-DW					E504.1	E504.1
EDB, DBCP, 123TCP BY GC (EPA 504.1)						Analyst: PGP
Dibromochloropropane	ND	0.0400		µg/L	1	3/6/2023 6:53:00 PM
Ethylene dibromide	ND	0.0200		µg/L	1	3/6/2023 6:53:00 PM
DRINKING WATER ORGANIC COMPOUNDS (EPA 525)					E525	525
SYNTHETIC ORGANIC COMPOUNDS BY GC/MS (EPA 525.3)						Analyst: MES
2,4-Dinitrotoluene	ND	0.192		µg/L	1	3/8/2023 5:38:00 AM
Acenaphthylene	ND	0.0962		µg/L	1	3/8/2023 5:38:00 AM
Anthracene	ND	0.0962		µg/L	1	3/8/2023 5:38:00 AM
Benzo(a)anthracene	ND	0.0962		µg/L	1	3/8/2023 5:38:00 AM
Benzo(a)pyrene	ND	0.0962		µg/L	1	3/8/2023 5:38:00 AM
Benzo(b)fluoranthene	ND	0.0962		µg/L	1	3/8/2023 5:38:00 AM
Benzo(g,h,i)perylene	ND	0.0962		µg/L	1	3/8/2023 5:38:00 AM
Benzo(k)fluoranthene	ND	0.0962	QC+	µg/L	1	3/8/2023 5:38:00 AM
Bis(2-ethylhexyl) phthalate	ND	0.192		µg/L	1	3/8/2023 5:38:00 AM
Butyl benzyl phthalate	ND	0.192		µg/L	1	3/8/2023 5:38:00 AM
Chrysene	ND	0.0962		µg/L	1	3/8/2023 5:38:00 AM
Dibenz(a,h)anthracene	ND	0.0962		µg/L	1	3/8/2023 5:38:00 AM
Diethyl phthalate	ND	0.0962		µg/L	1	3/8/2023 5:38:00 AM
Dimethyl phthalate	ND	0.192		µg/L	1	3/8/2023 5:38:00 AM
Di-n-butyl phthalate	0.394	0.192		µg/L	1	3/8/2023 5:38:00 AM
Fluorene	ND	0.0962		µg/L	1	3/8/2023 5:38:00 AM
Hexachlorobenzene	ND	0.0962		µg/L	1	3/8/2023 5:38:00 AM
Hexachlorocyclopentadiene	ND	0.0962	QL-	µg/L	1	3/8/2023 5:38:00 AM
Indeno(1,2,3-cd)pyrene	ND	0.962		µg/L	1	3/8/2023 5:38:00 AM
Isophorone	ND	0.192		µg/L	1	3/8/2023 5:38:00 AM
Phenanthrene	ND	0.0962		µg/L	1	3/8/2023 5:38:00 AM
Pyrene	ND	0.0962		µg/L	1	3/8/2023 5:38:00 AM
Surr: 1,3-Dimethyl-2-nitrobenz...	89.8	70 - 130		%Rec	1	3/8/2023 5:38:00 AM
Surr: Benzo(a)pyrene-d12	88.6	70 - 130		%Rec	1	3/8/2023 5:38:00 AM
Surr: Triphenyl phosphite	124	70 - 130		%Rec	1	3/8/2023 5:38:00 AM
SVOC BY SW8270E					SW8270	SW3510C
SVOC BY 8270E						Analyst: JAP
Benzoic acid	ND	15.4		µg/L	1	3/6/2023 3:57:00 PM

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

Original



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

Analytical Report

(consolidated)

WO#: 23030046

Date Reported: 3/9/2023

CLIENT: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP
Lab ID: 23030046-005
Client Sample ID: PW-205 Zuch Well

Collection Date: 2/28/2023 12:56:00 PM

Matrix: DRINKING WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SVOC BY SW8270E					SW8270	SW3510C
SVOC BY 8270E						Analyst: JAP

2,6-Dinitrotoluene	ND	0.962		µg/L	1	3/6/2023 3:57:00 PM
2-Methylnaphthalene	ND	0.962		µg/L	1	3/6/2023 3:57:00 PM
3,3'-Dichlorobenzidine	ND	9.62		µg/L	1	3/6/2023 3:57:00 PM
4-Nitrophenol	ND	4.81		µg/L	1	3/6/2023 3:57:00 PM
Acenaphthene	ND	0.962		µg/L	1	3/6/2023 3:57:00 PM
Bis(2-chloroethyl) ether	ND	0.962		µg/L	1	3/6/2023 3:57:00 PM
Di-n-octyl phthalate	ND	4.81	QL+	µg/L	1	3/6/2023 3:57:00 PM
Fluoranthene	ND	0.962		µg/L	1	3/6/2023 3:57:00 PM
Naphthalene	ND	0.962		µg/L	1	3/6/2023 3:57:00 PM
Phenol	ND	0.962		µg/L	1	3/6/2023 3:57:00 PM
3&4-Methylphenol	ND	0.962		µg/L	1	3/6/2023 3:57:00 PM
Surr: 2-Fluorophenol	48.4	20 - 130		%Rec	1	3/6/2023 3:57:00 PM
Surr: Phenol-d6	33.1	20 - 130		%Rec	1	3/6/2023 3:57:00 PM
Surr: Nitrobenzene-d5	91.7	27.4 - 130		%Rec	1	3/6/2023 3:57:00 PM
Surr: 2,4,6-Tribromophenol	82.1	54.3 - 133		%Rec	1	3/6/2023 3:57:00 PM
Surr: 2-Fluorobiphenyl	98.9	25.6 - 130		%Rec	1	3/6/2023 3:57:00 PM
Surr: p-Terphenyl-d14	104	20 - 181		%Rec	1	3/6/2023 3:57:00 PM

DRINKING WATER VOCs (EPA 524.2)					E524.2	Analyst: ZDA
VOC-GC/MS (524.2)						

1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	3/6/2023 1:03:00 AM
1,1,1-Trichloroethane	ND	0.500		µg/L	1	3/6/2023 1:03:00 AM
1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	3/6/2023 1:03:00 AM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	3/6/2023 1:03:00 AM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/6/2023 1:03:00 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	3/6/2023 1:03:00 AM
1,1-Dichloropropene	ND	0.500		µg/L	1	3/6/2023 1:03:00 AM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	3/6/2023 1:03:00 AM
1,2,3-Trichloropropane	ND	0.500		µg/L	1	3/6/2023 1:03:00 AM
1,2,4-Trichlorobenzene	ND	0.500		µg/L	1	3/6/2023 1:03:00 AM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	3/6/2023 1:03:00 AM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	3/6/2023 1:03:00 AM
1,2-Dichloroethane	ND	0.500		µg/L	1	3/6/2023 1:03:00 AM
1,2-Dichloropropane	ND	0.500		µg/L	1	3/6/2023 1:03:00 AM

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

Original



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Analytical Report

(consolidated)

WO#: 23030046

Date Reported: 3/9/2023

CLIENT: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP
Lab ID: 23030046-005
Client Sample ID: PW-205 Zuch Well

Collection Date: 2/28/2023 12:56:00 PM

Matrix: DRINKING WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DRINKING WATER VOCS (EPA 524.2)				E524.2	Analyst: ZDA	
VOC-GC/MS (524.2)						
1,3,5-Trimethylbenzene	ND	0.500		µg/L	1	3/6/2023 1:03:00 AM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	3/6/2023 1:03:00 AM
1,3-Dichloropropane	ND	0.500		µg/L	1	3/6/2023 1:03:00 AM
1,3-Dichloropropene, Total	ND	1.00		µg/L	1	3/6/2023 1:03:00 AM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	3/6/2023 1:03:00 AM
2-Chlorotoluene	ND	0.500		µg/L	1	3/6/2023 1:03:00 AM
2-Hexanone	ND	5.00		µg/L	1	3/6/2023 1:03:00 AM
4-Chlorotoluene	ND	0.500		µg/L	1	3/6/2023 1:03:00 AM
4-Methyl-2-pentanone	ND	5.00		µg/L	1	3/6/2023 1:03:00 AM
Acetone	ND	5.00		µg/L	1	3/6/2023 1:03:00 AM
Benzene	ND	0.500		µg/L	1	3/6/2023 1:03:00 AM
Bromobenzene	ND	0.500		µg/L	1	3/6/2023 1:03:00 AM
Bromodichloromethane	ND	0.500		µg/L	1	3/6/2023 1:03:00 AM
Bromoform	ND	0.500		µg/L	1	3/6/2023 1:03:00 AM
Bromomethane	ND	1.00		µg/L	1	3/6/2023 1:03:00 AM
Carbon tetrachloride	ND	0.500		µg/L	1	3/6/2023 1:03:00 AM
Chlorobenzene	ND	0.500		µg/L	1	3/6/2023 1:03:00 AM
Chlorobromomethane	ND	0.500		µg/L	1	3/6/2023 1:03:00 AM
Chlorodibromomethane	ND	0.500		µg/L	1	3/6/2023 1:03:00 AM
Chloroethane	ND	0.500		µg/L	1	3/6/2023 1:03:00 AM
Chloroform	ND	0.500		µg/L	1	3/6/2023 1:03:00 AM
Chloromethane	ND	0.500		µg/L	1	3/6/2023 1:03:00 AM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	3/6/2023 1:03:00 AM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	3/6/2023 1:03:00 AM
Dibromomethane	ND	0.500		µg/L	1	3/6/2023 1:03:00 AM
Dichlorodifluoromethane	ND	0.500		µg/L	1	3/6/2023 1:03:00 AM
Ethylbenzene	ND	0.500		µg/L	1	3/6/2023 1:03:00 AM
Hexachloro-1,3-butadiene	ND	0.500		µg/L	1	3/6/2023 1:03:00 AM
Isopropylbenzene	ND	0.500		µg/L	1	3/6/2023 1:03:00 AM
m,p-Xylene	ND	0.500		µg/L	1	3/6/2023 1:03:00 AM
Methylene chloride	ND	0.500		µg/L	1	3/6/2023 1:03:00 AM
MTBE	ND	0.500		µg/L	1	3/6/2023 1:03:00 AM
n-Butylbenzene	ND	0.500		µg/L	1	3/6/2023 1:03:00 AM
n-Propylbenzene	ND	0.500		µg/L	1	3/6/2023 1:03:00 AM

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

Original



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

Analytical Report

(consolidated)

WO#: 23030046

Date Reported: 3/9/2023

CLIENT: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP
Lab ID: 23030046-005
Client Sample ID: PW-205 Zuch Well

Collection Date: 2/28/2023 12:56:00 PM

Matrix: DRINKING WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DRINKING WATER VOCS (EPA 524.2)				E524.2	Analyst: ZDA	
VOC-GC/MS (524.2)						

o-Xylene	ND	0.500		µg/L	1	3/6/2023 1:03:00 AM
p-Isopropyltoluene	ND	0.500		µg/L	1	3/6/2023 1:03:00 AM
sec-Butylbenzene	ND	0.500		µg/L	1	3/6/2023 1:03:00 AM
Styrene	ND	0.500		µg/L	1	3/6/2023 1:03:00 AM
Tert-amyl methyl ether	ND	0.500		µg/L	1	3/6/2023 1:03:00 AM
Tert-butyl Alcohol	ND	5.00		µg/L	1	3/6/2023 1:03:00 AM
tert-Butylbenzene	ND	0.500		µg/L	1	3/6/2023 1:03:00 AM
Tetrachloroethene	ND	0.500		µg/L	1	3/6/2023 1:03:00 AM
Toluene	ND	0.500		µg/L	1	3/6/2023 1:03:00 AM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	3/6/2023 1:03:00 AM
trans-1,3-Dichloropropene	ND	0.500		µg/L	1	3/6/2023 1:03:00 AM
Trichloroethene	ND	0.500		µg/L	1	3/6/2023 1:03:00 AM
Trichlorofluoromethane	ND	0.500		µg/L	1	3/6/2023 1:03:00 AM
Vinyl chloride	ND	0.500		µg/L	1	3/6/2023 1:03:00 AM
Xylenes, Total	ND	0.500		µg/L	1	3/6/2023 1:03:00 AM
Surr: 1,2-Dichlorobenzene-d4	82.9	70 - 130		%Rec	1	3/6/2023 1:03:00 AM
Surr: 4-Bromofluorobenzene	81.9	70 - 130		%Rec	1	3/6/2023 1:03:00 AM

VOC ANALYSIS (8260D)				SW8260	Analyst: MES	
VOC BY GC/MS (8260D)						

Freon-113	ND	5.00		µg/L	1	3/5/2023 2:35:00 AM
1,3-Butadiene	ND	5.00		µg/L	1	3/5/2023 2:35:00 AM
1,4-Dioxane	ND	25.0		µg/L	1	3/5/2023 2:35:00 AM
2,2-Dichloropropane	ND	5.00		µg/L	1	3/5/2023 2:35:00 AM
2-Butanone	ND	25.0		µg/L	1	3/5/2023 2:35:00 AM
2-Nitropropane	ND	50.0		µg/L	1	3/5/2023 2:35:00 AM
Acrylonitrile (2-propenenitrile)	ND	30.0		µg/L	1	3/5/2023 2:35:00 AM
Allyl chloride	ND	5.00		µg/L	1	3/5/2023 2:35:00 AM
Carbon disulfide	ND	5.00		µg/L	1	3/5/2023 2:35:00 AM
Chloroprene	ND	5.00		µg/L	1	3/5/2023 2:35:00 AM
Cyclohexanone	ND	5.00		µg/L	1	3/5/2023 2:35:00 AM
Ethyl Ether	ND	10.0		µg/L	1	3/5/2023 2:35:00 AM
Epichlorohydrin	ND	20.0		µg/L	1	3/5/2023 2:35:00 AM
ETBE	ND	5.00		µg/L	1	3/5/2023 2:35:00 AM

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

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Analytical Report

(consolidated)

WO#: 23030046

Date Reported: 3/9/2023

CLIENT: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP
Lab ID: 23030046-005
Client Sample ID: PW-205 Zuch Well

Collection Date: 2/28/2023 12:56:00 PM

Matrix: DRINKING WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOC ANALYSIS (8260D)				SW8260	Analyst: MES	
VOC BY GC/MS (8260D)						
Ethyl acrylate	ND	5.00		µg/L	1	3/5/2023 2:35:00 AM
Ethyl methacrylate	ND	5.00		µg/L	1	3/5/2023 2:35:00 AM
Hexachloroethane	ND	5.00		µg/L	1	3/5/2023 2:35:00 AM
Diisopropyl ether (DIPE)	ND	5.00		µg/L	1	3/5/2023 2:35:00 AM
Methacrylonitrile	ND	5.00		µg/L	1	3/5/2023 2:35:00 AM
Methyl acrylate	ND	5.00		µg/L	1	3/5/2023 2:35:00 AM
Methyl methacrylate	ND	5.00		µg/L	1	3/5/2023 2:35:00 AM
Propionitrile	ND	5.00		µg/L	1	3/5/2023 2:35:00 AM
trans-1,4-Dichloro-2-butene	ND	5.00		µg/L	1	3/5/2023 2:35:00 AM
Vinyl acetate	ND	5.00		µg/L	1	3/5/2023 2:35:00 AM
1,2,3-Trimethylbenzene	ND	5.00		µg/L	1	3/5/2023 2:35:00 AM
Surr: 4-Bromofluorobenzene	92.5	70 - 130		%Rec	1	3/5/2023 2:35:00 AM
Surr: Dibromofluoromethane	101	70 - 130		%Rec	1	3/5/2023 2:35:00 AM
Surr: Toluene-d8	97.9	70 - 130		%Rec	1	3/5/2023 2:35:00 AM

VOC TENTATIVELY IDENTIFIED COMPOUNDS (TICS)				SW8260	Analyst: MES	
TIC: 1-Chlorobutane	ND			µg/L	1	3/5/2023 2:35:00 AM
TIC: 1-Methylnaphthalene	ND			µg/L	1	3/5/2023 2:35:00 AM
TIC: 2-Butyloxyethyl acetate	ND			µg/L	1	3/5/2023 2:35:00 AM
TIC: 2-Ethylhexyl acrylate	ND			µg/L	1	3/5/2023 2:35:00 AM
TIC: Benzyl chloride	ND			µg/L	1	3/5/2023 2:35:00 AM
TIC: Bromoethane	ND			µg/L	1	3/5/2023 2:35:00 AM
TIC: Chloroacetonitrile	ND			µg/L	1	3/5/2023 2:35:00 AM
TIC: n-Butyl acrylate	ND			µg/L	1	3/5/2023 2:35:00 AM
TIC: Pentachloroethane	ND			µg/L	1	3/5/2023 2:35:00 AM

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

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Analytical Report

(consolidated)

WO#: 23030046

Date Reported: 3/9/2023

CLIENT: OhioEPA-DDAGW **Collection Date:** 2/28/2023 2:10:00 PM
Project: Ohio EPA PWS-EP
Lab ID: 23030046-006 **Matrix:** DRINKING WATER
Client Sample ID: PW-207 Entry Point

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA504.-DW					E504.1	E504.1
EDB, DBCP, 123TCP BY GC (EPA 504.1)						Analyst: PGP
Dibromochloropropane	ND	0.0400		µg/L	1	3/6/2023 7:14:00 PM
Ethylene dibromide	ND	0.0200		µg/L	1	3/6/2023 7:14:00 PM
DRINKING WATER ORGANIC COMPOUNDS (EPA 525)					E525	525
SYNTHETIC ORGANIC COMPOUNDS BY GC/MS (EPA 525.3)						Analyst: MES
2,4-Dinitrotoluene	ND	0.192		µg/L	1	3/8/2023 6:25:00 AM
Acenaphthylene	ND	0.0962		µg/L	1	3/8/2023 6:25:00 AM
Anthracene	ND	0.0962		µg/L	1	3/8/2023 6:25:00 AM
Benzo(a)anthracene	ND	0.0962		µg/L	1	3/8/2023 6:25:00 AM
Benzo(a)pyrene	ND	0.0962		µg/L	1	3/8/2023 6:25:00 AM
Benzo(b)fluoranthene	ND	0.0962		µg/L	1	3/8/2023 6:25:00 AM
Benzo(g,h,i)perylene	ND	0.0962		µg/L	1	3/8/2023 6:25:00 AM
Benzo(k)fluoranthene	ND	0.0962	QC+	µg/L	1	3/8/2023 6:25:00 AM
Bis(2-ethylhexyl) phthalate	0.240	0.192		µg/L	1	3/8/2023 6:25:00 AM
Butyl benzyl phthalate	ND	0.192		µg/L	1	3/8/2023 6:25:00 AM
Chrysene	ND	0.0962		µg/L	1	3/8/2023 6:25:00 AM
Dibenz(a,h)anthracene	ND	0.0962		µg/L	1	3/8/2023 6:25:00 AM
Diethyl phthalate	ND	0.0962		µg/L	1	3/8/2023 6:25:00 AM
Dimethyl phthalate	ND	0.192		µg/L	1	3/8/2023 6:25:00 AM
Di-n-butyl phthalate	ND	0.192		µg/L	1	3/8/2023 6:25:00 AM
Fluorene	ND	0.0962		µg/L	1	3/8/2023 6:25:00 AM
Hexachlorobenzene	ND	0.0962		µg/L	1	3/8/2023 6:25:00 AM
Hexachlorocyclopentadiene	ND	0.0962	QL-	µg/L	1	3/8/2023 6:25:00 AM
Indeno(1,2,3-cd)pyrene	ND	0.962		µg/L	1	3/8/2023 6:25:00 AM
Isophorone	ND	0.192		µg/L	1	3/8/2023 6:25:00 AM
Phenanthrene	ND	0.0962		µg/L	1	3/8/2023 6:25:00 AM
Pyrene	ND	0.0962		µg/L	1	3/8/2023 6:25:00 AM
Surr: 1,3-Dimethyl-2-nitrobenz...	94.6	70 - 130		%Rec	1	3/8/2023 6:25:00 AM
Surr: Benzo(a)pyrene-d12	97.8	70 - 130		%Rec	1	3/8/2023 6:25:00 AM
Surr: Triphenyl phosphite	125	70 - 130		%Rec	1	3/8/2023 6:25:00 AM
SVOC BY SW8270E					SW8270	SW3510C
SVOC BY 8270E						Analyst: JAP
Benzoic acid	ND	15.5		µg/L	1	3/6/2023 4:29:00 PM

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

Original



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Analytical Report

(consolidated)

WO#: 23030046

Date Reported: 3/9/2023

CLIENT: OhioEPA-DDAGW **Collection Date:** 2/28/2023 2:10:00 PM
Project: Ohio EPA PWS-EP
Lab ID: 23030046-006 **Matrix:** DRINKING WATER
Client Sample ID: PW-207 Entry Point

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SVOC BY SW8270E					SW8270	SW3510C
SVOC BY 8270E						Analyst: JAP

2,6-Dinitrotoluene	ND	0.971		µg/L	1	3/6/2023 4:29:00 PM
2-Methylnaphthalene	ND	0.971		µg/L	1	3/6/2023 4:29:00 PM
3,3'-Dichlorobenzidine	ND	9.71		µg/L	1	3/6/2023 4:29:00 PM
4-Nitrophenol	ND	4.85		µg/L	1	3/6/2023 4:29:00 PM
Acenaphthene	ND	0.971		µg/L	1	3/6/2023 4:29:00 PM
Bis(2-chloroethyl) ether	ND	0.971		µg/L	1	3/6/2023 4:29:00 PM
Di-n-octyl phthalate	ND	4.85	QL+	µg/L	1	3/6/2023 4:29:00 PM
Fluoranthene	ND	0.971		µg/L	1	3/6/2023 4:29:00 PM
Naphthalene	ND	0.971		µg/L	1	3/6/2023 4:29:00 PM
Phenol	ND	0.971		µg/L	1	3/6/2023 4:29:00 PM
3&4-Methylphenol	ND	0.971		µg/L	1	3/6/2023 4:29:00 PM
Surr: 2-Fluorophenol	44.7	20 - 130		%Rec	1	3/6/2023 4:29:00 PM
Surr: Phenol-d6	4.60	20 - 130	S	%Rec	1	3/6/2023 4:29:00 PM
Surr: Nitrobenzene-d5	73.7	27.4 - 130		%Rec	1	3/6/2023 4:29:00 PM
Surr: 2,4,6-Tribromophenol	82.8	54.3 - 133		%Rec	1	3/6/2023 4:29:00 PM
Surr: 2-Fluorobiphenyl	72.6	25.6 - 130		%Rec	1	3/6/2023 4:29:00 PM
Surr: p-Terphenyl-d14	96.7	20 - 181		%Rec	1	3/6/2023 4:29:00 PM

DRINKING WATER VOCs (EPA 524.2)					E524.2	Analyst: ZDA
VOC-GC/MS (524.2)						

1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	3/6/2023 11:49:00 PM
1,1,1-Trichloroethane	ND	0.500		µg/L	1	3/6/2023 11:49:00 PM
1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	3/6/2023 11:49:00 PM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	3/6/2023 11:49:00 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/6/2023 11:49:00 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	3/6/2023 11:49:00 PM
1,1-Dichloropropene	ND	0.500		µg/L	1	3/6/2023 11:49:00 PM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	3/6/2023 11:49:00 PM
1,2,3-Trichloropropane	ND	0.500		µg/L	1	3/6/2023 11:49:00 PM
1,2,4-Trichlorobenzene	ND	0.500		µg/L	1	3/6/2023 11:49:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	3/6/2023 11:49:00 PM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	3/6/2023 11:49:00 PM
1,2-Dichloroethane	ND	0.500		µg/L	1	3/6/2023 11:49:00 PM
1,2-Dichloropropane	ND	0.500		µg/L	1	3/6/2023 11:49:00 PM

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

Original



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>

Analytical Report

(consolidated)

WO#: 23030046

Date Reported: 3/9/2023

CLIENT: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP
Lab ID: 23030046-006
Client Sample ID: PW-207 Entry Point

Collection Date: 2/28/2023 2:10:00 PM

Matrix: DRINKING WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DRINKING WATER VOCS (EPA 524.2)				E524.2	Analyst: ZDA	
VOC-GC/MS (524.2)						
1,3,5-Trimethylbenzene	ND	0.500		µg/L	1	3/6/2023 11:49:00 PM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	3/6/2023 11:49:00 PM
1,3-Dichloropropane	ND	0.500		µg/L	1	3/6/2023 11:49:00 PM
1,3-Dichloropropene, Total	ND	1.00		µg/L	1	3/6/2023 11:49:00 PM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	3/6/2023 11:49:00 PM
2-Chlorotoluene	ND	0.500		µg/L	1	3/6/2023 11:49:00 PM
2-Hexanone	ND	5.00		µg/L	1	3/6/2023 11:49:00 PM
4-Chlorotoluene	ND	0.500		µg/L	1	3/6/2023 11:49:00 PM
4-Methyl-2-pentanone	ND	5.00		µg/L	1	3/6/2023 11:49:00 PM
Acetone	ND	5.00		µg/L	1	3/6/2023 11:49:00 PM
Benzene	ND	0.500		µg/L	1	3/6/2023 11:49:00 PM
Bromobenzene	ND	0.500		µg/L	1	3/6/2023 11:49:00 PM
Bromodichloromethane	0.927	0.500		µg/L	1	3/6/2023 11:49:00 PM
Bromoform	ND	0.500		µg/L	1	3/6/2023 11:49:00 PM
Bromomethane	ND	1.00		µg/L	1	3/6/2023 11:49:00 PM
Carbon tetrachloride	ND	0.500		µg/L	1	3/6/2023 11:49:00 PM
Chlorobenzene	ND	0.500		µg/L	1	3/6/2023 11:49:00 PM
Chlorobromomethane	ND	0.500		µg/L	1	3/6/2023 11:49:00 PM
Chlorodibromomethane	0.719	0.500		µg/L	1	3/6/2023 11:49:00 PM
Chloroethane	ND	0.500		µg/L	1	3/6/2023 11:49:00 PM
Chloroform	1.04	0.500		µg/L	1	3/6/2023 11:49:00 PM
Chloromethane	ND	0.500		µg/L	1	3/6/2023 11:49:00 PM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	3/6/2023 11:49:00 PM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	3/6/2023 11:49:00 PM
Dibromomethane	ND	0.500		µg/L	1	3/6/2023 11:49:00 PM
Dichlorodifluoromethane	ND	0.500		µg/L	1	3/6/2023 11:49:00 PM
Ethylbenzene	ND	0.500		µg/L	1	3/6/2023 11:49:00 PM
Hexachloro-1,3-butadiene	ND	0.500		µg/L	1	3/6/2023 11:49:00 PM
Isopropylbenzene	ND	0.500		µg/L	1	3/6/2023 11:49:00 PM
m,p-Xylene	ND	0.500		µg/L	1	3/6/2023 11:49:00 PM
Methylene chloride	ND	0.500		µg/L	1	3/6/2023 11:49:00 PM
MTBE	ND	0.500		µg/L	1	3/6/2023 11:49:00 PM
n-Butylbenzene	ND	0.500		µg/L	1	3/6/2023 11:49:00 PM
n-Propylbenzene	ND	0.500		µg/L	1	3/6/2023 11:49:00 PM

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

Original



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

Analytical Report

(consolidated)

WO#: 23030046

Date Reported: 3/9/2023

CLIENT: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP
Lab ID: 23030046-006
Client Sample ID: PW-207 Entry Point

Collection Date: 2/28/2023 2:10:00 PM

Matrix: DRINKING WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	------	-------	----	---------------

DRINKING WATER VOCS (EPA 524.2)
VOC-GC/MS (524.2)

E524.2

Analyst: **ZDA**

o-Xylene	ND	0.500		µg/L	1	3/6/2023 11:49:00 PM
p-Isopropyltoluene	ND	0.500		µg/L	1	3/6/2023 11:49:00 PM
sec-Butylbenzene	ND	0.500		µg/L	1	3/6/2023 11:49:00 PM
Styrene	ND	0.500		µg/L	1	3/6/2023 11:49:00 PM
Tert-amyl methyl ether	ND	0.500		µg/L	1	3/6/2023 11:49:00 PM
Tert-butyl Alcohol	ND	5.00		µg/L	1	3/6/2023 11:49:00 PM
tert-Butylbenzene	ND	0.500		µg/L	1	3/6/2023 11:49:00 PM
Tetrachloroethene	ND	0.500		µg/L	1	3/6/2023 11:49:00 PM
Toluene	ND	0.500		µg/L	1	3/6/2023 11:49:00 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	3/6/2023 11:49:00 PM
trans-1,3-Dichloropropene	ND	0.500		µg/L	1	3/6/2023 11:49:00 PM
Trichloroethene	ND	0.500		µg/L	1	3/6/2023 11:49:00 PM
Trichlorofluoromethane	ND	0.500		µg/L	1	3/6/2023 11:49:00 PM
Vinyl chloride	ND	0.500		µg/L	1	3/6/2023 11:49:00 PM
Xylenes, Total	ND	0.500		µg/L	1	3/6/2023 11:49:00 PM
Surr: 1,2-Dichlorobenzene-d4	85.0	70 - 130		%Rec	1	3/6/2023 11:49:00 PM
Surr: 4-Bromofluorobenzene	85.7	70 - 130		%Rec	1	3/6/2023 11:49:00 PM

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

SW8260

Analyst: **MES**

Freon-113	ND	5.00		µg/L	1	3/5/2023 2:58:00 AM
1,3-Butadiene	ND	5.00		µg/L	1	3/5/2023 2:58:00 AM
1,4-Dioxane	ND	25.0		µg/L	1	3/5/2023 2:58:00 AM
2,2-Dichloropropane	ND	5.00		µg/L	1	3/5/2023 2:58:00 AM
2-Butanone	ND	25.0		µg/L	1	3/5/2023 2:58:00 AM
2-Nitropropane	ND	50.0		µg/L	1	3/5/2023 2:58:00 AM
Acrylonitrile (2-propenenitrile)	ND	30.0		µg/L	1	3/5/2023 2:58:00 AM
Allyl chloride	ND	5.00		µg/L	1	3/5/2023 2:58:00 AM
Carbon disulfide	ND	5.00		µg/L	1	3/5/2023 2:58:00 AM
Chloroprene	ND	5.00		µg/L	1	3/5/2023 2:58:00 AM
Cyclohexanone	ND	5.00		µg/L	1	3/5/2023 2:58:00 AM
Ethyl Ether	ND	10.0		µg/L	1	3/5/2023 2:58:00 AM
Epichlorohydrin	ND	20.0		µg/L	1	3/5/2023 2:58:00 AM
ETBE	ND	5.00		µg/L	1	3/5/2023 2:58:00 AM

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

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Analytical Report

(consolidated)

WO#: 23030046

Date Reported: 3/9/2023

CLIENT: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP
Lab ID: 23030046-006
Client Sample ID: PW-207 Entry Point

Collection Date: 2/28/2023 2:10:00 PM

Matrix: DRINKING WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOC ANALYSIS (8260D)				SW8260	Analyst: MES	
VOC BY GC/MS (8260D)						
Ethyl acrylate	ND	5.00		µg/L	1	3/5/2023 2:58:00 AM
Ethyl methacrylate	ND	5.00		µg/L	1	3/5/2023 2:58:00 AM
Hexachloroethane	ND	5.00		µg/L	1	3/5/2023 2:58:00 AM
Diisopropyl ether (DIPE)	ND	5.00		µg/L	1	3/5/2023 2:58:00 AM
Methacrylonitrile	ND	5.00		µg/L	1	3/5/2023 2:58:00 AM
Methyl acrylate	ND	5.00		µg/L	1	3/5/2023 2:58:00 AM
Methyl methacrylate	ND	5.00		µg/L	1	3/5/2023 2:58:00 AM
Propionitrile	ND	5.00		µg/L	1	3/5/2023 2:58:00 AM
trans-1,4-Dichloro-2-butene	ND	5.00		µg/L	1	3/5/2023 2:58:00 AM
Vinyl acetate	ND	5.00		µg/L	1	3/5/2023 2:58:00 AM
1,2,3-Trimethylbenzene	ND	5.00		µg/L	1	3/5/2023 2:58:00 AM
Surr: 4-Bromofluorobenzene	93.3	70 - 130		%Rec	1	3/5/2023 2:58:00 AM
Surr: Dibromofluoromethane	103	70 - 130		%Rec	1	3/5/2023 2:58:00 AM
Surr: Toluene-d8	97.7	70 - 130		%Rec	1	3/5/2023 2:58:00 AM

VOC TENTATIVELY IDENTIFIED COMPOUNDS (TICS)				SW8260	Analyst: MES	
TIC: 1-Chlorobutane	ND			µg/L	1	3/5/2023 2:58:00 AM
TIC: 1-Methylnaphthalene	ND			µg/L	1	3/5/2023 2:58:00 AM
TIC: 2-Butyloxyethyl acetate	ND			µg/L	1	3/5/2023 2:58:00 AM
TIC: 2-Ethylhexyl acrylate	ND			µg/L	1	3/5/2023 2:58:00 AM
TIC: Benzyl chloride	ND			µg/L	1	3/5/2023 2:58:00 AM
TIC: Bromoethane	ND			µg/L	1	3/5/2023 2:58:00 AM
TIC: Chloroacetonitrile	ND			µg/L	1	3/5/2023 2:58:00 AM
TIC: n-Butyl acrylate	ND			µg/L	1	3/5/2023 2:58:00 AM
TIC: Pentachloroethane	ND			µg/L	1	3/5/2023 2:58:00 AM

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

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Analytical Report

(consolidated)

WO#: 23030046

Date Reported: 3/9/2023

CLIENT: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP
Lab ID: 23030046-007
Client Sample ID: PW-201FB Field Blank

Collection Date: 2/28/2023 9:46:00 AM

Matrix: DRINKING WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA504.-DW					E504.1	E504.1
EDB, DBCP, 123TCP BY GC (EPA 504.1)						Analyst: PGP
Dibromochloropropane	ND	0.0400		µg/L	1	3/6/2023 7:34:00 PM
Ethylene dibromide	ND	0.0200		µg/L	1	3/6/2023 7:34:00 PM
DRINKING WATER ORGANIC COMPOUNDS (EPA 525)					E525	525
SYNTHETIC ORGANIC COMPOUNDS BY GC/MS (EPA 525.3)						Analyst: MES
2,4-Dinitrotoluene	ND	0.192		µg/L	1	3/8/2023 7:11:00 AM
Acenaphthylene	ND	0.0962		µg/L	1	3/8/2023 7:11:00 AM
Anthracene	ND	0.0962		µg/L	1	3/8/2023 7:11:00 AM
Benzo(a)anthracene	ND	0.0962		µg/L	1	3/8/2023 7:11:00 AM
Benzo(a)pyrene	ND	0.0962		µg/L	1	3/8/2023 7:11:00 AM
Benzo(b)fluoranthene	ND	0.0962		µg/L	1	3/8/2023 7:11:00 AM
Benzo(g,h,i)perylene	ND	0.0962		µg/L	1	3/8/2023 7:11:00 AM
Benzo(k)fluoranthene	ND	0.0962	QC+	µg/L	1	3/8/2023 7:11:00 AM
Bis(2-ethylhexyl) phthalate	0.567	0.192		µg/L	1	3/8/2023 7:11:00 AM
Butyl benzyl phthalate	ND	0.192		µg/L	1	3/8/2023 7:11:00 AM
Chrysene	ND	0.0962		µg/L	1	3/8/2023 7:11:00 AM
Dibenz(a,h)anthracene	ND	0.0962		µg/L	1	3/8/2023 7:11:00 AM
Diethyl phthalate	ND	0.0962		µg/L	1	3/8/2023 7:11:00 AM
Dimethyl phthalate	ND	0.192		µg/L	1	3/8/2023 7:11:00 AM
Di-n-butyl phthalate	ND	0.192		µg/L	1	3/8/2023 7:11:00 AM
Fluorene	ND	0.0962		µg/L	1	3/8/2023 7:11:00 AM
Hexachlorobenzene	ND	0.0962		µg/L	1	3/8/2023 7:11:00 AM
Hexachlorocyclopentadiene	ND	0.0962	QL-	µg/L	1	3/8/2023 7:11:00 AM
Indeno(1,2,3-cd)pyrene	ND	0.962		µg/L	1	3/8/2023 7:11:00 AM
Isophorone	ND	0.192		µg/L	1	3/8/2023 7:11:00 AM
Phenanthrene	ND	0.0962		µg/L	1	3/8/2023 7:11:00 AM
Pyrene	ND	0.0962		µg/L	1	3/8/2023 7:11:00 AM
Surr: 1,3-Dimethyl-2-nitrobenz...	97.6	70 - 130		%Rec	1	3/8/2023 7:11:00 AM
Surr: Benzo(a)pyrene-d12	103	70 - 130		%Rec	1	3/8/2023 7:11:00 AM
Surr: Triphenyl phosphite	125	70 - 130		%Rec	1	3/8/2023 7:11:00 AM
SVOC BY SW8270E					SW8270	SW3510C
SVOC BY 8270E						Analyst: JAP
Benzoic acid	ND	15.4		µg/L	1	3/6/2023 5:00:00 PM

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

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Analytical Report

(consolidated)

WO#: 23030046

Date Reported: 3/9/2023

CLIENT: OhioEPA-DDAGW

Collection Date: 2/28/2023 9:46:00 AM

Project: Ohio EPA PWS-EP

Lab ID: 23030046-007

Matrix: DRINKING WATER

Client Sample ID: PW-201FB Field Blank

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SVOC BY SW8270E					SW8270	SW3510C
SVOC BY 8270E						Analyst: JAP
2,6-Dinitrotoluene	ND	0.962		µg/L	1	3/6/2023 5:00:00 PM
2-Methylnaphthalene	ND	0.962		µg/L	1	3/6/2023 5:00:00 PM
3,3'-Dichlorobenzidine	ND	9.62		µg/L	1	3/6/2023 5:00:00 PM
4-Nitrophenol	ND	4.81		µg/L	1	3/6/2023 5:00:00 PM
Acenaphthene	ND	0.962		µg/L	1	3/6/2023 5:00:00 PM
Bis(2-chloroethyl) ether	ND	0.962		µg/L	1	3/6/2023 5:00:00 PM
Di-n-octyl phthalate	ND	4.81	QL+	µg/L	1	3/6/2023 5:00:00 PM
Fluoranthene	ND	0.962		µg/L	1	3/6/2023 5:00:00 PM
Naphthalene	ND	0.962		µg/L	1	3/6/2023 5:00:00 PM
Phenol	ND	0.962		µg/L	1	3/6/2023 5:00:00 PM
3&4-Methylphenol	ND	0.962		µg/L	1	3/6/2023 5:00:00 PM
Surr: 2-Fluorophenol	48.5	20 - 130		%Rec	1	3/6/2023 5:00:00 PM
Surr: Phenol-d6	31.4	20 - 130		%Rec	1	3/6/2023 5:00:00 PM
Surr: Nitrobenzene-d5	73.7	27.4 - 130		%Rec	1	3/6/2023 5:00:00 PM
Surr: 2,4,6-Tribromophenol	87.4	54.3 - 133		%Rec	1	3/6/2023 5:00:00 PM
Surr: 2-Fluorobiphenyl	73.4	25.6 - 130		%Rec	1	3/6/2023 5:00:00 PM
Surr: p-Terphenyl-d14	98.0	20 - 181		%Rec	1	3/6/2023 5:00:00 PM

DRINKING WATER VOCs (EPA 524.2)					E524.2	Analyst: ZDA
VOC-GC/MS (524.2)						
1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	3/7/2023 3:10:00 AM
1,1,1-Trichloroethane	ND	0.500		µg/L	1	3/7/2023 3:10:00 AM
1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	3/7/2023 3:10:00 AM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	3/7/2023 3:10:00 AM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/7/2023 3:10:00 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	3/7/2023 3:10:00 AM
1,1-Dichloropropene	ND	0.500		µg/L	1	3/7/2023 3:10:00 AM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	3/7/2023 3:10:00 AM
1,2,3-Trichloropropane	ND	0.500		µg/L	1	3/7/2023 3:10:00 AM
1,2,4-Trichlorobenzene	ND	0.500		µg/L	1	3/7/2023 3:10:00 AM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	3/7/2023 3:10:00 AM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	3/7/2023 3:10:00 AM
1,2-Dichloroethane	ND	0.500		µg/L	1	3/7/2023 3:10:00 AM
1,2-Dichloropropane	ND	0.500		µg/L	1	3/7/2023 3:10:00 AM

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

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Analytical Report

(consolidated)

WO#: 23030046

Date Reported: 3/9/2023

CLIENT: OhioEPA-DDAGW

Collection Date: 2/28/2023 9:46:00 AM

Project: Ohio EPA PWS-EP

Lab ID: 23030046-007

Matrix: DRINKING WATER

Client Sample ID: PW-201FB Field Blank

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DRINKING WATER VOCs (EPA 524.2)				E524.2	Analyst: ZDA	
VOC-GC/MS (524.2)						
1,3,5-Trimethylbenzene	ND	0.500		µg/L	1	3/7/2023 3:10:00 AM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	3/7/2023 3:10:00 AM
1,3-Dichloropropane	ND	0.500		µg/L	1	3/7/2023 3:10:00 AM
1,3-Dichloropropene, Total	ND	1.00		µg/L	1	3/7/2023 3:10:00 AM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	3/7/2023 3:10:00 AM
2-Chlorotoluene	ND	0.500		µg/L	1	3/7/2023 3:10:00 AM
2-Hexanone	ND	5.00		µg/L	1	3/7/2023 3:10:00 AM
4-Chlorotoluene	ND	0.500		µg/L	1	3/7/2023 3:10:00 AM
4-Methyl-2-pentanone	ND	5.00		µg/L	1	3/7/2023 3:10:00 AM
Acetone	ND	5.00		µg/L	1	3/7/2023 3:10:00 AM
Benzene	ND	0.500		µg/L	1	3/7/2023 3:10:00 AM
Bromobenzene	ND	0.500		µg/L	1	3/7/2023 3:10:00 AM
Bromodichloromethane	ND	0.500		µg/L	1	3/7/2023 3:10:00 AM
Bromoform	ND	0.500		µg/L	1	3/7/2023 3:10:00 AM
Bromomethane	ND	1.00		µg/L	1	3/7/2023 3:10:00 AM
Carbon tetrachloride	ND	0.500		µg/L	1	3/7/2023 3:10:00 AM
Chlorobenzene	ND	0.500		µg/L	1	3/7/2023 3:10:00 AM
Chlorobromomethane	ND	0.500		µg/L	1	3/7/2023 3:10:00 AM
Chlorodibromomethane	ND	0.500		µg/L	1	3/7/2023 3:10:00 AM
Chloroethane	ND	0.500		µg/L	1	3/7/2023 3:10:00 AM
Chloroform	ND	0.500		µg/L	1	3/7/2023 3:10:00 AM
Chloromethane	ND	0.500		µg/L	1	3/7/2023 3:10:00 AM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	3/7/2023 3:10:00 AM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	3/7/2023 3:10:00 AM
Dibromomethane	ND	0.500		µg/L	1	3/7/2023 3:10:00 AM
Dichlorodifluoromethane	ND	0.500		µg/L	1	3/7/2023 3:10:00 AM
Ethylbenzene	ND	0.500		µg/L	1	3/7/2023 3:10:00 AM
Hexachloro-1,3-butadiene	ND	0.500		µg/L	1	3/7/2023 3:10:00 AM
Isopropylbenzene	ND	0.500		µg/L	1	3/7/2023 3:10:00 AM
m,p-Xylene	ND	0.500		µg/L	1	3/7/2023 3:10:00 AM
Methylene chloride	ND	0.500		µg/L	1	3/7/2023 3:10:00 AM
MTBE	ND	0.500		µg/L	1	3/7/2023 3:10:00 AM
n-Butylbenzene	ND	0.500		µg/L	1	3/7/2023 3:10:00 AM
n-Propylbenzene	ND	0.500		µg/L	1	3/7/2023 3:10:00 AM

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

Original



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 TEL: (330) 253-8211 FAX: (330) 253-4489
 Website: <http://www.settek.com>

Analytical Report

(consolidated)

WO#: 23030046

Date Reported: 3/9/2023

CLIENT: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP
Lab ID: 23030046-007
Client Sample ID: PW-201FB Field Blank

Collection Date: 2/28/2023 9:46:00 AM

Matrix: DRINKING WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DRINKING WATER VOCS (EPA 524.2)				E524.2	Analyst: ZDA	
VOC-GC/MS (524.2)						
o-Xylene	ND	0.500		µg/L	1	3/7/2023 3:10:00 AM
p-Isopropyltoluene	ND	0.500		µg/L	1	3/7/2023 3:10:00 AM
sec-Butylbenzene	ND	0.500		µg/L	1	3/7/2023 3:10:00 AM
Styrene	ND	0.500		µg/L	1	3/7/2023 3:10:00 AM
Tert-amyl methyl ether	ND	0.500		µg/L	1	3/7/2023 3:10:00 AM
Tert-butyl Alcohol	ND	5.00		µg/L	1	3/7/2023 3:10:00 AM
tert-Butylbenzene	ND	0.500		µg/L	1	3/7/2023 3:10:00 AM
Tetrachloroethene	ND	0.500		µg/L	1	3/7/2023 3:10:00 AM
Toluene	ND	0.500		µg/L	1	3/7/2023 3:10:00 AM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	3/7/2023 3:10:00 AM
trans-1,3-Dichloropropene	ND	0.500		µg/L	1	3/7/2023 3:10:00 AM
Trichloroethene	ND	0.500		µg/L	1	3/7/2023 3:10:00 AM
Trichlorofluoromethane	ND	0.500		µg/L	1	3/7/2023 3:10:00 AM
Vinyl chloride	ND	0.500		µg/L	1	3/7/2023 3:10:00 AM
Xylenes, Total	ND	0.500		µg/L	1	3/7/2023 3:10:00 AM
Surr: 1,2-Dichlorobenzene-d4	84.5	70 - 130		%Rec	1	3/7/2023 3:10:00 AM
Surr: 4-Bromofluorobenzene	83.0	70 - 130		%Rec	1	3/7/2023 3:10:00 AM
VOC ANALYSIS (8260D)				SW8260	Analyst: MES	
VOC BY GC/MS (8260D)						
Freon-113	ND	5.00		µg/L	1	3/5/2023 3:22:00 AM
1,3-Butadiene	ND	5.00		µg/L	1	3/5/2023 3:22:00 AM
1,4-Dioxane	ND	25.0		µg/L	1	3/5/2023 3:22:00 AM
2,2-Dichloropropane	ND	5.00		µg/L	1	3/5/2023 3:22:00 AM
2-Butanone	ND	25.0		µg/L	1	3/5/2023 3:22:00 AM
2-Nitropropane	ND	50.0		µg/L	1	3/5/2023 3:22:00 AM
Acrylonitrile (2-propenenitrile)	ND	30.0		µg/L	1	3/5/2023 3:22:00 AM
Allyl chloride	ND	5.00		µg/L	1	3/5/2023 3:22:00 AM
Carbon disulfide	ND	5.00		µg/L	1	3/5/2023 3:22:00 AM
Chloroprene	ND	5.00		µg/L	1	3/5/2023 3:22:00 AM
Cyclohexanone	ND	5.00		µg/L	1	3/5/2023 3:22:00 AM
Ethyl Ether	ND	10.0		µg/L	1	3/5/2023 3:22:00 AM
Epichlorohydrin	ND	20.0		µg/L	1	3/5/2023 3:22:00 AM
ETBE	ND	5.00		µg/L	1	3/5/2023 3:22:00 AM

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

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Analytical Report

(consolidated)

WO#: 23030046

Date Reported: 3/9/2023

CLIENT: OhioEPA-DDAGW

Collection Date: 2/28/2023 9:46:00 AM

Project: Ohio EPA PWS-EP

Lab ID: 23030046-007

Matrix: DRINKING WATER

Client Sample ID: PW-201FB Field Blank

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOC ANALYSIS (8260D)				SW8260	Analyst: MES	
VOC BY GC/MS (8260D)						
Ethyl acrylate	ND	5.00		µg/L	1	3/5/2023 3:22:00 AM
Ethyl methacrylate	ND	5.00		µg/L	1	3/5/2023 3:22:00 AM
Hexachloroethane	ND	5.00		µg/L	1	3/5/2023 3:22:00 AM
Diisopropyl ether (DIPE)	ND	5.00		µg/L	1	3/5/2023 3:22:00 AM
Methacrylonitrile	ND	5.00		µg/L	1	3/5/2023 3:22:00 AM
Methyl acrylate	ND	5.00		µg/L	1	3/5/2023 3:22:00 AM
Methyl methacrylate	ND	5.00		µg/L	1	3/5/2023 3:22:00 AM
Propionitrile	ND	5.00		µg/L	1	3/5/2023 3:22:00 AM
trans-1,4-Dichloro-2-butene	ND	5.00		µg/L	1	3/5/2023 3:22:00 AM
Vinyl acetate	ND	5.00		µg/L	1	3/5/2023 3:22:00 AM
1,2,3-Trimethylbenzene	ND	5.00		µg/L	1	3/5/2023 3:22:00 AM
Surr: 4-Bromofluorobenzene	89.2	70 - 130		%Rec	1	3/5/2023 3:22:00 AM
Surr: Dibromofluoromethane	101	70 - 130		%Rec	1	3/5/2023 3:22:00 AM
Surr: Toluene-d8	98.8	70 - 130		%Rec	1	3/5/2023 3:22:00 AM

VOC TENTATIVELY IDENTIFIED COMPOUNDS (TICS)				SW8260	Analyst: MES	
TIC: 1-Chlorobutane	ND			µg/L	1	3/5/2023 3:22:00 AM
TIC: 1-Methylnaphthalene	ND			µg/L	1	3/5/2023 3:22:00 AM
TIC: 2-Butyloxyethyl acetate	ND			µg/L	1	3/5/2023 3:22:00 AM
TIC: 2-Ethylhexyl acrylate	ND			µg/L	1	3/5/2023 3:22:00 AM
TIC: Benzyl chloride	ND			µg/L	1	3/5/2023 3:22:00 AM
TIC: Bromoethane	ND			µg/L	1	3/5/2023 3:22:00 AM
TIC: Chloroacetonitrile	ND			µg/L	1	3/5/2023 3:22:00 AM
TIC: n-Butyl acrylate	ND			µg/L	1	3/5/2023 3:22:00 AM
TIC: Pentachloroethane	ND			µg/L	1	3/5/2023 3:22:00 AM

Qualifiers:			
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits
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Analytical Report

(consolidated)

WO#: 23030046

Date Reported: 3/9/2023

CLIENT: OhioEPA-DDAGW **Collection Date:** 2/28/2023 2:10:00 PM
Project: Ohio EPA PWS-EP
Lab ID: 23030046-008 **Matrix:** DRINKING WATER
Client Sample ID: PW-207Dupe Duplicate

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA504.-DW					E504.1	E504.1
EDB, DBCP, 123TCP BY GC (EPA 504.1)						Analyst: PGP
Dibromochloropropane	ND	0.0400		µg/L	1	3/6/2023 7:55:00 PM
Ethylene dibromide	ND	0.0200		µg/L	1	3/6/2023 7:55:00 PM
DRINKING WATER ORGANIC COMPOUNDS (EPA 525)					E525	525
SYNTHETIC ORGANIC COMPOUNDS BY GC/MS (EPA 525.3)						Analyst: MES
2,4-Dinitrotoluene	ND	0.192		µg/L	1	3/8/2023 7:58:00 AM
Acenaphthylene	ND	0.0962		µg/L	1	3/8/2023 7:58:00 AM
Anthracene	ND	0.0962		µg/L	1	3/8/2023 7:58:00 AM
Benzo(a)anthracene	ND	0.0962		µg/L	1	3/8/2023 7:58:00 AM
Benzo(a)pyrene	ND	0.0962		µg/L	1	3/8/2023 7:58:00 AM
Benzo(b)fluoranthene	ND	0.0962		µg/L	1	3/8/2023 7:58:00 AM
Benzo(g,h,i)perylene	ND	0.0962		µg/L	1	3/8/2023 7:58:00 AM
Benzo(k)fluoranthene	ND	0.0962	QC+	µg/L	1	3/8/2023 7:58:00 AM
Bis(2-ethylhexyl) phthalate	ND	0.192		µg/L	1	3/8/2023 7:58:00 AM
Butyl benzyl phthalate	ND	0.192		µg/L	1	3/8/2023 7:58:00 AM
Chrysene	ND	0.0962		µg/L	1	3/8/2023 7:58:00 AM
Dibenz(a,h)anthracene	ND	0.0962		µg/L	1	3/8/2023 7:58:00 AM
Diethyl phthalate	ND	0.0962		µg/L	1	3/8/2023 7:58:00 AM
Dimethyl phthalate	ND	0.192		µg/L	1	3/8/2023 7:58:00 AM
Di-n-butyl phthalate	ND	0.192		µg/L	1	3/8/2023 7:58:00 AM
Fluorene	ND	0.0962		µg/L	1	3/8/2023 7:58:00 AM
Hexachlorobenzene	ND	0.0962		µg/L	1	3/8/2023 7:58:00 AM
Hexachlorocyclopentadiene	ND	0.0962	QL-	µg/L	1	3/8/2023 7:58:00 AM
Indeno(1,2,3-cd)pyrene	ND	0.962		µg/L	1	3/8/2023 7:58:00 AM
Isophorone	ND	0.192		µg/L	1	3/8/2023 7:58:00 AM
Phenanthrene	ND	0.0962		µg/L	1	3/8/2023 7:58:00 AM
Pyrene	ND	0.0962		µg/L	1	3/8/2023 7:58:00 AM
Surr: 1,3-Dimethyl-2-nitrobenz...	94.0	70 - 130		%Rec	1	3/8/2023 7:58:00 AM
Surr: Benzo(a)pyrene-d12	103	70 - 130		%Rec	1	3/8/2023 7:58:00 AM
Surr: Triphenyl phosphite	122	70 - 130		%Rec	1	3/8/2023 7:58:00 AM
SVOC BY SW8270E					SW8270	SW3510C
SVOC BY 8270E						Analyst: JAP
Benzoic acid	ND	15.5		µg/L	1	3/6/2023 5:32:00 PM

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

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

Analytical Report

(consolidated)

WO#: 23030046

Date Reported: 3/9/2023

CLIENT: OhioEPA-DDAGW **Collection Date:** 2/28/2023 2:10:00 PM
Project: Ohio EPA PWS-EP
Lab ID: 23030046-008 **Matrix:** DRINKING WATER
Client Sample ID: PW-207Dupe Duplicate

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SVOC BY SW8270E					SW8270	SW3510C
SVOC BY 8270E						Analyst: JAP

2,6-Dinitrotoluene	ND	0.971		µg/L	1	3/6/2023 5:32:00 PM
2-Methylnaphthalene	ND	0.971		µg/L	1	3/6/2023 5:32:00 PM
3,3'-Dichlorobenzidine	ND	9.71		µg/L	1	3/6/2023 5:32:00 PM
4-Nitrophenol	ND	4.85		µg/L	1	3/6/2023 5:32:00 PM
Acenaphthene	ND	0.971		µg/L	1	3/6/2023 5:32:00 PM
Bis(2-chloroethyl) ether	ND	0.971		µg/L	1	3/6/2023 5:32:00 PM
Di-n-octyl phthalate	ND	4.85	QL+	µg/L	1	3/6/2023 5:32:00 PM
Fluoranthene	ND	0.971		µg/L	1	3/6/2023 5:32:00 PM
Naphthalene	ND	0.971		µg/L	1	3/6/2023 5:32:00 PM
Phenol	ND	0.971		µg/L	1	3/6/2023 5:32:00 PM
3&4-Methylphenol	ND	0.971		µg/L	1	3/6/2023 5:32:00 PM
Surr: 2-Fluorophenol	45.5	20 - 130		%Rec	1	3/6/2023 5:32:00 PM
Surr: Phenol-d6	6.86	20 - 130	S	%Rec	1	3/6/2023 5:32:00 PM
Surr: Nitrobenzene-d5	73.6	27.4 - 130		%Rec	1	3/6/2023 5:32:00 PM
Surr: 2,4,6-Tribromophenol	87.3	54.3 - 133		%Rec	1	3/6/2023 5:32:00 PM
Surr: 2-Fluorobiphenyl	71.5	25.6 - 130		%Rec	1	3/6/2023 5:32:00 PM
Surr: p-Terphenyl-d14	97.5	20 - 181		%Rec	1	3/6/2023 5:32:00 PM

DRINKING WATER VOCs (EPA 524.2)					E524.2	Analyst: ZDA
VOC-GC/MS (524.2)						

1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	3/7/2023 3:39:00 AM
1,1,1-Trichloroethane	ND	0.500		µg/L	1	3/7/2023 3:39:00 AM
1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	3/7/2023 3:39:00 AM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	3/7/2023 3:39:00 AM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/7/2023 3:39:00 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	3/7/2023 3:39:00 AM
1,1-Dichloropropene	ND	0.500		µg/L	1	3/7/2023 3:39:00 AM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	3/7/2023 3:39:00 AM
1,2,3-Trichloropropane	ND	0.500		µg/L	1	3/7/2023 3:39:00 AM
1,2,4-Trichlorobenzene	ND	0.500		µg/L	1	3/7/2023 3:39:00 AM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	3/7/2023 3:39:00 AM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	3/7/2023 3:39:00 AM
1,2-Dichloroethane	ND	0.500		µg/L	1	3/7/2023 3:39:00 AM
1,2-Dichloropropane	ND	0.500		µg/L	1	3/7/2023 3:39:00 AM

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

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Analytical Report

(consolidated)

WO#: 23030046

Date Reported: 3/9/2023

CLIENT: OhioEPA-DDAGW

Collection Date: 2/28/2023 2:10:00 PM

Project: Ohio EPA PWS-EP

Lab ID: 23030046-008

Matrix: DRINKING WATER

Client Sample ID: PW-207Dupe Duplicate

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DRINKING WATER VOCs (EPA 524.2)				E524.2	Analyst: ZDA	
VOC-GC/MS (524.2)						
1,3,5-Trimethylbenzene	ND	0.500		µg/L	1	3/7/2023 3:39:00 AM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	3/7/2023 3:39:00 AM
1,3-Dichloropropane	ND	0.500		µg/L	1	3/7/2023 3:39:00 AM
1,3-Dichloropropene, Total	ND	1.00		µg/L	1	3/7/2023 3:39:00 AM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	3/7/2023 3:39:00 AM
2-Chlorotoluene	ND	0.500		µg/L	1	3/7/2023 3:39:00 AM
2-Hexanone	ND	5.00		µg/L	1	3/7/2023 3:39:00 AM
4-Chlorotoluene	ND	0.500		µg/L	1	3/7/2023 3:39:00 AM
4-Methyl-2-pentanone	ND	5.00		µg/L	1	3/7/2023 3:39:00 AM
Acetone	ND	5.00		µg/L	1	3/7/2023 3:39:00 AM
Benzene	ND	0.500		µg/L	1	3/7/2023 3:39:00 AM
Bromobenzene	ND	0.500		µg/L	1	3/7/2023 3:39:00 AM
Bromodichloromethane	1.02	0.500		µg/L	1	3/7/2023 3:39:00 AM
Bromoform	ND	0.500		µg/L	1	3/7/2023 3:39:00 AM
Bromomethane	ND	1.00		µg/L	1	3/7/2023 3:39:00 AM
Carbon tetrachloride	ND	0.500		µg/L	1	3/7/2023 3:39:00 AM
Chlorobenzene	ND	0.500		µg/L	1	3/7/2023 3:39:00 AM
Chlorobromomethane	ND	0.500		µg/L	1	3/7/2023 3:39:00 AM
Chlorodibromomethane	0.734	0.500		µg/L	1	3/7/2023 3:39:00 AM
Chloroethane	ND	0.500		µg/L	1	3/7/2023 3:39:00 AM
Chloroform	1.26	0.500		µg/L	1	3/7/2023 3:39:00 AM
Chloromethane	ND	0.500		µg/L	1	3/7/2023 3:39:00 AM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	3/7/2023 3:39:00 AM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	3/7/2023 3:39:00 AM
Dibromomethane	ND	0.500		µg/L	1	3/7/2023 3:39:00 AM
Dichlorodifluoromethane	ND	0.500		µg/L	1	3/7/2023 3:39:00 AM
Ethylbenzene	ND	0.500		µg/L	1	3/7/2023 3:39:00 AM
Hexachloro-1,3-butadiene	ND	0.500		µg/L	1	3/7/2023 3:39:00 AM
Isopropylbenzene	ND	0.500		µg/L	1	3/7/2023 3:39:00 AM
m,p-Xylene	ND	0.500		µg/L	1	3/7/2023 3:39:00 AM
Methylene chloride	2.19	0.500		µg/L	1	3/7/2023 3:39:00 AM
MTBE	ND	0.500		µg/L	1	3/7/2023 3:39:00 AM
n-Butylbenzene	ND	0.500		µg/L	1	3/7/2023 3:39:00 AM
n-Propylbenzene	ND	0.500		µg/L	1	3/7/2023 3:39:00 AM

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

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Analytical Report

(consolidated)

WO#: 23030046

Date Reported: 3/9/2023

CLIENT: OhioEPA-DDAGW **Collection Date:** 2/28/2023 2:10:00 PM
Project: Ohio EPA PWS-EP
Lab ID: 23030046-008 **Matrix:** DRINKING WATER
Client Sample ID: PW-207Dupe Duplicate

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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DRINKING WATER VOCS (EPA 524.2) **E524.2** Analyst: ZDA

VOC-GC/MS (524.2)

o-Xylene	ND	0.500		µg/L	1	3/7/2023 3:39:00 AM
p-Isopropyltoluene	ND	0.500		µg/L	1	3/7/2023 3:39:00 AM
sec-Butylbenzene	ND	0.500		µg/L	1	3/7/2023 3:39:00 AM
Styrene	ND	0.500		µg/L	1	3/7/2023 3:39:00 AM
Tert-amyl methyl ether	ND	0.500		µg/L	1	3/7/2023 3:39:00 AM
Tert-butyl Alcohol	ND	5.00		µg/L	1	3/7/2023 3:39:00 AM
tert-Butylbenzene	ND	0.500		µg/L	1	3/7/2023 3:39:00 AM
Tetrachloroethene	ND	0.500		µg/L	1	3/7/2023 3:39:00 AM
Toluene	ND	0.500		µg/L	1	3/7/2023 3:39:00 AM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	3/7/2023 3:39:00 AM
trans-1,3-Dichloropropene	ND	0.500		µg/L	1	3/7/2023 3:39:00 AM
Trichloroethene	ND	0.500		µg/L	1	3/7/2023 3:39:00 AM
Trichlorofluoromethane	ND	0.500		µg/L	1	3/7/2023 3:39:00 AM
Vinyl chloride	ND	0.500		µg/L	1	3/7/2023 3:39:00 AM
Xylenes, Total	ND	0.500		µg/L	1	3/7/2023 3:39:00 AM
Surr: 1,2-Dichlorobenzene-d4	84.9	70 - 130		%Rec	1	3/7/2023 3:39:00 AM
Surr: 4-Bromofluorobenzene	83.8	70 - 130		%Rec	1	3/7/2023 3:39:00 AM

VOC ANALYSIS (8260D) **SW8260** Analyst: MES

VOC BY GC/MS (8260D)

Freon-113	ND	5.00		µg/L	1	3/5/2023 3:45:00 AM
1,3-Butadiene	ND	5.00		µg/L	1	3/5/2023 3:45:00 AM
1,4-Dioxane	ND	25.0		µg/L	1	3/5/2023 3:45:00 AM
2,2-Dichloropropane	ND	5.00		µg/L	1	3/5/2023 3:45:00 AM
2-Butanone	ND	25.0		µg/L	1	3/5/2023 3:45:00 AM
2-Nitropropane	ND	50.0		µg/L	1	3/5/2023 3:45:00 AM
Acrylonitrile (2-propenenitrile)	ND	30.0		µg/L	1	3/5/2023 3:45:00 AM
Allyl chloride	ND	5.00		µg/L	1	3/5/2023 3:45:00 AM
Carbon disulfide	ND	5.00		µg/L	1	3/5/2023 3:45:00 AM
Chloroprene	ND	5.00		µg/L	1	3/5/2023 3:45:00 AM
Cyclohexanone	ND	5.00		µg/L	1	3/5/2023 3:45:00 AM
Ethyl Ether	ND	10.0		µg/L	1	3/5/2023 3:45:00 AM
Epichlorohydrin	ND	20.0		µg/L	1	3/5/2023 3:45:00 AM
ETBE	ND	5.00		µg/L	1	3/5/2023 3:45:00 AM

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

Original



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

Analytical Report

(consolidated)

WO#: 23030046

Date Reported: 3/9/2023

CLIENT: OhioEPA-DDAGW **Collection Date:** 2/28/2023 2:10:00 PM
Project: Ohio EPA PWS-EP
Lab ID: 23030046-008 **Matrix:** DRINKING WATER
Client Sample ID: PW-207Dupe Duplicate

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOC ANALYSIS (8260D)				SW8260	Analyst: MES	
VOC BY GC/MS (8260D)						
Ethyl acrylate	ND	5.00		µg/L	1	3/5/2023 3:45:00 AM
Ethyl methacrylate	ND	5.00		µg/L	1	3/5/2023 3:45:00 AM
Hexachloroethane	ND	5.00		µg/L	1	3/5/2023 3:45:00 AM
Diisopropyl ether (DIPE)	ND	5.00		µg/L	1	3/5/2023 3:45:00 AM
Methacrylonitrile	ND	5.00		µg/L	1	3/5/2023 3:45:00 AM
Methyl acrylate	ND	5.00		µg/L	1	3/5/2023 3:45:00 AM
Methyl methacrylate	ND	5.00		µg/L	1	3/5/2023 3:45:00 AM
Propionitrile	ND	5.00		µg/L	1	3/5/2023 3:45:00 AM
trans-1,4-Dichloro-2-butene	ND	5.00		µg/L	1	3/5/2023 3:45:00 AM
Vinyl acetate	ND	5.00		µg/L	1	3/5/2023 3:45:00 AM
1,2,3-Trimethylbenzene	ND	5.00		µg/L	1	3/5/2023 3:45:00 AM
Surr: 4-Bromofluorobenzene	93.2	70 - 130		%Rec	1	3/5/2023 3:45:00 AM
Surr: Dibromofluoromethane	99.9	70 - 130		%Rec	1	3/5/2023 3:45:00 AM
Surr: Toluene-d8	97.9	70 - 130		%Rec	1	3/5/2023 3:45:00 AM

VOC TENTATIVELY IDENTIFIED COMPOUNDS (TICS)				SW8260	Analyst: MES	
TIC: 1-Chlorobutane	ND			µg/L	1	3/5/2023 3:45:00 AM
TIC: 1-Methylnaphthalene	ND			µg/L	1	3/5/2023 3:45:00 AM
TIC: 2-Butyloxyethyl acetate	ND			µg/L	1	3/5/2023 3:45:00 AM
TIC: 2-Ethylhexyl acrylate	ND			µg/L	1	3/5/2023 3:45:00 AM
TIC: Benzyl chloride	ND			µg/L	1	3/5/2023 3:45:00 AM
TIC: Bromoethane	ND			µg/L	1	3/5/2023 3:45:00 AM
TIC: Chloroacetonitrile	ND			µg/L	1	3/5/2023 3:45:00 AM
TIC: n-Butyl acrylate	ND			µg/L	1	3/5/2023 3:45:00 AM
TIC: Pentachloroethane	ND			µg/L	1	3/5/2023 3:45:00 AM

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

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Analytical Report

(consolidated)

WO#: 23030046

Date Reported: 3/9/2023

CLIENT: OhioEPA-DDAGW

Collection Date:

Project: Ohio EPA PWS-EP

Lab ID: 23030046-009

Matrix: DRINKING WATER

Client Sample ID: Trip Blank 1

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA504.-DW					E504.1	E504.1
EDB, DBCP, 123TCP BY GC (EPA 504.1)						Analyst: PGP
Dibromochloropropane	ND	0.0400		µg/L	1	3/6/2023 8:16:00 PM
Ethylene dibromide	ND	0.0200		µg/L	1	3/6/2023 8:16:00 PM
DRINKING WATER VOCS (EPA 524.2)					E524.2	Analyst: ZDA
VOC-GC/MS (524.2)						
1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	3/5/2023 6:19:00 PM
1,1,1-Trichloroethane	ND	0.500		µg/L	1	3/5/2023 6:19:00 PM
1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	3/5/2023 6:19:00 PM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	3/5/2023 6:19:00 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/5/2023 6:19:00 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	3/5/2023 6:19:00 PM
1,1-Dichloropropene	ND	0.500		µg/L	1	3/5/2023 6:19:00 PM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	3/5/2023 6:19:00 PM
1,2,3-Trichloropropane	ND	0.500		µg/L	1	3/5/2023 6:19:00 PM
1,2,4-Trichlorobenzene	ND	0.500		µg/L	1	3/5/2023 6:19:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	3/5/2023 6:19:00 PM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	3/5/2023 6:19:00 PM
1,2-Dichloroethane	ND	0.500		µg/L	1	3/5/2023 6:19:00 PM
1,2-Dichloropropane	ND	0.500		µg/L	1	3/5/2023 6:19:00 PM
1,3,5-Trimethylbenzene	ND	0.500		µg/L	1	3/5/2023 6:19:00 PM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	3/5/2023 6:19:00 PM
1,3-Dichloropropane	ND	0.500		µg/L	1	3/5/2023 6:19:00 PM
1,3-Dichloropropene, Total	ND	1.00		µg/L	1	3/5/2023 6:19:00 PM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	3/5/2023 6:19:00 PM
2-Chlorotoluene	ND	0.500		µg/L	1	3/5/2023 6:19:00 PM
2-Hexanone	ND	5.00		µg/L	1	3/5/2023 6:19:00 PM
4-Chlorotoluene	ND	0.500		µg/L	1	3/5/2023 6:19:00 PM
4-Methyl-2-pentanone	ND	5.00		µg/L	1	3/5/2023 6:19:00 PM
Acetone	ND	5.00		µg/L	1	3/5/2023 6:19:00 PM
Benzene	ND	0.500		µg/L	1	3/5/2023 6:19:00 PM
Bromobenzene	ND	0.500		µg/L	1	3/5/2023 6:19:00 PM
Bromodichloromethane	ND	0.500		µg/L	1	3/5/2023 6:19:00 PM
Bromoform	ND	0.500		µg/L	1	3/5/2023 6:19:00 PM
Bromomethane	ND	1.00		µg/L	1	3/5/2023 6:19:00 PM

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

Original



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Analytical Report

(consolidated)

WO#: 23030046

Date Reported: 3/9/2023

CLIENT: OhioEPA-DDAGW

Collection Date:

Project: Ohio EPA PWS-EP

Lab ID: 23030046-009

Matrix: DRINKING WATER

Client Sample ID: Trip Blank 1

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DRINKING WATER VOCs (EPA 524.2)				E524.2	Analyst: ZDA	
VOC-GC/MS (524.2)						
Carbon tetrachloride	ND	0.500		µg/L	1	3/5/2023 6:19:00 PM
Chlorobenzene	ND	0.500		µg/L	1	3/5/2023 6:19:00 PM
Chlorobromomethane	ND	0.500		µg/L	1	3/5/2023 6:19:00 PM
Chlorodibromomethane	ND	0.500		µg/L	1	3/5/2023 6:19:00 PM
Chloroethane	ND	0.500		µg/L	1	3/5/2023 6:19:00 PM
Chloroform	ND	0.500		µg/L	1	3/5/2023 6:19:00 PM
Chloromethane	ND	0.500		µg/L	1	3/5/2023 6:19:00 PM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	3/5/2023 6:19:00 PM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	3/5/2023 6:19:00 PM
Dibromomethane	ND	0.500		µg/L	1	3/5/2023 6:19:00 PM
Dichlorodifluoromethane	ND	0.500		µg/L	1	3/5/2023 6:19:00 PM
Ethylbenzene	ND	0.500		µg/L	1	3/5/2023 6:19:00 PM
Hexachloro-1,3-butadiene	ND	0.500		µg/L	1	3/5/2023 6:19:00 PM
Isopropylbenzene	ND	0.500		µg/L	1	3/5/2023 6:19:00 PM
m,p-Xylene	ND	0.500		µg/L	1	3/5/2023 6:19:00 PM
Methylene chloride	ND	0.500		µg/L	1	3/5/2023 6:19:00 PM
MTBE	ND	0.500		µg/L	1	3/5/2023 6:19:00 PM
n-Butylbenzene	ND	0.500		µg/L	1	3/5/2023 6:19:00 PM
n-Propylbenzene	ND	0.500		µg/L	1	3/5/2023 6:19:00 PM
o-Xylene	ND	0.500		µg/L	1	3/5/2023 6:19:00 PM
p-Isopropyltoluene	ND	0.500		µg/L	1	3/5/2023 6:19:00 PM
sec-Butylbenzene	ND	0.500		µg/L	1	3/5/2023 6:19:00 PM
Styrene	ND	0.500		µg/L	1	3/5/2023 6:19:00 PM
Tert-amyl methyl ether	ND	0.500		µg/L	1	3/5/2023 6:19:00 PM
Tert-butyl Alcohol	ND	5.00		µg/L	1	3/5/2023 6:19:00 PM
tert-Butylbenzene	ND	0.500		µg/L	1	3/5/2023 6:19:00 PM
Tetrachloroethene	ND	0.500		µg/L	1	3/5/2023 6:19:00 PM
Toluene	ND	0.500		µg/L	1	3/5/2023 6:19:00 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	3/5/2023 6:19:00 PM
trans-1,3-Dichloropropene	ND	0.500		µg/L	1	3/5/2023 6:19:00 PM
Trichloroethene	ND	0.500		µg/L	1	3/5/2023 6:19:00 PM
Trichlorofluoromethane	ND	0.500		µg/L	1	3/5/2023 6:19:00 PM
Vinyl chloride	ND	0.500		µg/L	1	3/5/2023 6:19:00 PM
Xylenes, Total	ND	0.500		µg/L	1	3/5/2023 6:19:00 PM

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

Original



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

Analytical Report

(consolidated)

WO#: 23030046

Date Reported: 3/9/2023

CLIENT: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP
Lab ID: 23030046-009
Client Sample ID: Trip Blank 1

Collection Date:
Matrix: DRINKING WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DRINKING WATER VOCS (EPA 524.2)				E524.2	Analyst: ZDA	
VOC-GC/MS (524.2)						
Surr: 1,2-Dichlorobenzene-d4	87.1	70	-	%Rec	1	3/5/2023 6:19:00 PM
Surr: 4-Bromofluorobenzene	83.6	70	-	%Rec	1	3/5/2023 6:19:00 PM
VOC ANALYSIS (8260D)				SW8260	Analyst: MES	
VOC BY GC/MS (8260D)						
Freon-113	ND	5.00		µg/L	1	3/5/2023 4:09:00 AM
1,3-Butadiene	ND	5.00		µg/L	1	3/5/2023 4:09:00 AM
1,4-Dioxane	ND	25.0		µg/L	1	3/5/2023 4:09:00 AM
2,2-Dichloropropane	ND	5.00		µg/L	1	3/5/2023 4:09:00 AM
2-Butanone	ND	25.0		µg/L	1	3/5/2023 4:09:00 AM
2-Nitropropane	ND	50.0		µg/L	1	3/5/2023 4:09:00 AM
Acrylonitrile (2-propenenitrile)	ND	30.0		µg/L	1	3/5/2023 4:09:00 AM
Allyl chloride	ND	5.00		µg/L	1	3/5/2023 4:09:00 AM
Carbon disulfide	ND	5.00		µg/L	1	3/5/2023 4:09:00 AM
Chloroprene	ND	5.00		µg/L	1	3/5/2023 4:09:00 AM
Cyclohexanone	ND	5.00		µg/L	1	3/5/2023 4:09:00 AM
Ethyl Ether	ND	10.0		µg/L	1	3/5/2023 4:09:00 AM
Epichlorohydrin	ND	20.0		µg/L	1	3/5/2023 4:09:00 AM
ETBE	ND	5.00		µg/L	1	3/5/2023 4:09:00 AM
Ethyl acrylate	ND	5.00		µg/L	1	3/5/2023 4:09:00 AM
Ethyl methacrylate	ND	5.00		µg/L	1	3/5/2023 4:09:00 AM
Hexachloroethane	ND	5.00		µg/L	1	3/5/2023 4:09:00 AM
Diisopropyl ether (DIPE)	ND	5.00		µg/L	1	3/5/2023 4:09:00 AM
Methacrylonitrile	ND	5.00		µg/L	1	3/5/2023 4:09:00 AM
Methyl acrylate	ND	5.00		µg/L	1	3/5/2023 4:09:00 AM
Methyl methacrylate	ND	5.00		µg/L	1	3/5/2023 4:09:00 AM
Propionitrile	ND	5.00		µg/L	1	3/5/2023 4:09:00 AM
trans-1,4-Dichloro-2-butene	ND	5.00		µg/L	1	3/5/2023 4:09:00 AM
Vinyl acetate	ND	5.00		µg/L	1	3/5/2023 4:09:00 AM
1,2,3-Trimethylbenzene	ND	5.00		µg/L	1	3/5/2023 4:09:00 AM
Surr: 4-Bromofluorobenzene	93.8	70	-	%Rec	1	3/5/2023 4:09:00 AM
Surr: Dibromofluoromethane	104	70	-	%Rec	1	3/5/2023 4:09:00 AM
Surr: Toluene-d8	99.9	70	-	%Rec	1	3/5/2023 4:09:00 AM

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

Original



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Cuyahoga Falls, Ohio 44223
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Website: <http://www.settek.com>

Analytical Report

(consolidated)

WO#: **23030046**

Date Reported: **3/9/2023**

CLIENT: OhioEPA-DDAGW

Collection Date:

Project: Ohio EPA PWS-EP

Lab ID: 23030046-009

Matrix: DRINKING WATER

Client Sample ID: Trip Blank 1

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOC TENTATIVELY IDENTIFIED COMPOUNDS (TICS)				SW8260	Analyst: MES	
TIC: 1-Chlorobutane	ND			µg/L	1	3/5/2023 4:09:00 AM
TIC: 1-Methylnaphthalene	ND			µg/L	1	3/5/2023 4:09:00 AM
TIC: 2-Butyloxyethyl acetate	ND			µg/L	1	3/5/2023 4:09:00 AM
TIC: 2-Ethylhexyl acrylate	ND			µg/L	1	3/5/2023 4:09:00 AM
TIC: Benzyl chloride	ND			µg/L	1	3/5/2023 4:09:00 AM
TIC: Bromoethane	ND			µg/L	1	3/5/2023 4:09:00 AM
TIC: Chloroacetonitrile	ND			µg/L	1	3/5/2023 4:09:00 AM
TIC: n-Butyl acrylate	ND			µg/L	1	3/5/2023 4:09:00 AM
TIC: Pentachloroethane	ND			µg/L	1	3/5/2023 4:09:00 AM

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

Original



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Analytical Report

(consolidated)

WO#: 23030046

Date Reported: 3/9/2023

CLIENT: OhioEPA-DDAGW

Collection Date:

Project: Ohio EPA PWS-EP

Lab ID: 23030046-010

Matrix: DRINKING WATER

Client Sample ID: Trip Blank 2

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA504.-DW				E504.1	E504.1	Analyst: PGP
EDB, DBCP, 123TCP BY GC (EPA 504.1)						
Dibromochloropropane	ND	0.0400		µg/L	1	3/6/2023 8:36:00 PM
Ethylene dibromide	ND	0.0200		µg/L	1	3/6/2023 8:36:00 PM
DRINKING WATER VOCS (EPA 524.2)				E524.2		Analyst: ZDA
VOC-GC/MS (524.2)						
1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	3/5/2023 9:12:00 PM
1,1,1-Trichloroethane	ND	0.500		µg/L	1	3/5/2023 9:12:00 PM
1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	3/5/2023 9:12:00 PM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	3/5/2023 9:12:00 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/5/2023 9:12:00 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	3/5/2023 9:12:00 PM
1,1-Dichloropropene	ND	0.500		µg/L	1	3/5/2023 9:12:00 PM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	3/5/2023 9:12:00 PM
1,2,3-Trichloropropane	ND	0.500		µg/L	1	3/5/2023 9:12:00 PM
1,2,4-Trichlorobenzene	ND	0.500		µg/L	1	3/5/2023 9:12:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	3/5/2023 9:12:00 PM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	3/5/2023 9:12:00 PM
1,2-Dichloroethane	ND	0.500		µg/L	1	3/5/2023 9:12:00 PM
1,2-Dichloropropane	ND	0.500		µg/L	1	3/5/2023 9:12:00 PM
1,3,5-Trimethylbenzene	ND	0.500		µg/L	1	3/5/2023 9:12:00 PM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	3/5/2023 9:12:00 PM
1,3-Dichloropropane	ND	0.500		µg/L	1	3/5/2023 9:12:00 PM
1,3-Dichloropropene, Total	ND	1.00		µg/L	1	3/5/2023 9:12:00 PM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	3/5/2023 9:12:00 PM
2-Chlorotoluene	ND	0.500		µg/L	1	3/5/2023 9:12:00 PM
2-Hexanone	ND	5.00		µg/L	1	3/5/2023 9:12:00 PM
4-Chlorotoluene	ND	0.500		µg/L	1	3/5/2023 9:12:00 PM
4-Methyl-2-pentanone	ND	5.00		µg/L	1	3/5/2023 9:12:00 PM
Acetone	ND	5.00		µg/L	1	3/5/2023 9:12:00 PM
Benzene	ND	0.500		µg/L	1	3/5/2023 9:12:00 PM
Bromobenzene	ND	0.500		µg/L	1	3/5/2023 9:12:00 PM
Bromodichloromethane	ND	0.500		µg/L	1	3/5/2023 9:12:00 PM
Bromoform	ND	0.500		µg/L	1	3/5/2023 9:12:00 PM
Bromomethane	ND	1.00		µg/L	1	3/5/2023 9:12:00 PM

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

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>

Analytical Report

(consolidated)

WO#: 23030046

Date Reported: 3/9/2023

CLIENT: OhioEPA-DDAGW

Collection Date:

Project: Ohio EPA PWS-EP

Lab ID: 23030046-010

Matrix: DRINKING WATER

Client Sample ID: Trip Blank 2

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DRINKING WATER VOCs (EPA 524.2)				E524.2	Analyst: ZDA	
VOC-GC/MS (524.2)						
Carbon tetrachloride	ND	0.500		µg/L	1	3/5/2023 9:12:00 PM
Chlorobenzene	ND	0.500		µg/L	1	3/5/2023 9:12:00 PM
Chlorobromomethane	ND	0.500		µg/L	1	3/5/2023 9:12:00 PM
Chlorodibromomethane	ND	0.500		µg/L	1	3/5/2023 9:12:00 PM
Chloroethane	ND	0.500		µg/L	1	3/5/2023 9:12:00 PM
Chloroform	ND	0.500		µg/L	1	3/5/2023 9:12:00 PM
Chloromethane	ND	0.500		µg/L	1	3/5/2023 9:12:00 PM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	3/5/2023 9:12:00 PM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	3/5/2023 9:12:00 PM
Dibromomethane	ND	0.500		µg/L	1	3/5/2023 9:12:00 PM
Dichlorodifluoromethane	ND	0.500		µg/L	1	3/5/2023 9:12:00 PM
Ethylbenzene	ND	0.500		µg/L	1	3/5/2023 9:12:00 PM
Hexachloro-1,3-butadiene	ND	0.500		µg/L	1	3/5/2023 9:12:00 PM
Isopropylbenzene	ND	0.500		µg/L	1	3/5/2023 9:12:00 PM
m,p-Xylene	ND	0.500		µg/L	1	3/5/2023 9:12:00 PM
Methylene chloride	ND	0.500		µg/L	1	3/5/2023 9:12:00 PM
MTBE	ND	0.500		µg/L	1	3/5/2023 9:12:00 PM
n-Butylbenzene	ND	0.500		µg/L	1	3/5/2023 9:12:00 PM
n-Propylbenzene	ND	0.500		µg/L	1	3/5/2023 9:12:00 PM
o-Xylene	ND	0.500		µg/L	1	3/5/2023 9:12:00 PM
p-Isopropyltoluene	ND	0.500		µg/L	1	3/5/2023 9:12:00 PM
sec-Butylbenzene	ND	0.500		µg/L	1	3/5/2023 9:12:00 PM
Styrene	ND	0.500		µg/L	1	3/5/2023 9:12:00 PM
Tert-amyl methyl ether	ND	0.500		µg/L	1	3/5/2023 9:12:00 PM
Tert-butyl Alcohol	ND	5.00		µg/L	1	3/5/2023 9:12:00 PM
tert-Butylbenzene	ND	0.500		µg/L	1	3/5/2023 9:12:00 PM
Tetrachloroethene	ND	0.500		µg/L	1	3/5/2023 9:12:00 PM
Toluene	ND	0.500		µg/L	1	3/5/2023 9:12:00 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	3/5/2023 9:12:00 PM
trans-1,3-Dichloropropene	ND	0.500		µg/L	1	3/5/2023 9:12:00 PM
Trichloroethene	ND	0.500		µg/L	1	3/5/2023 9:12:00 PM
Trichlorofluoromethane	ND	0.500		µg/L	1	3/5/2023 9:12:00 PM
Vinyl chloride	ND	0.500		µg/L	1	3/5/2023 9:12:00 PM
Xylenes, Total	ND	0.500		µg/L	1	3/5/2023 9:12:00 PM

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

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Analytical Report

(consolidated)

WO#: 23030046

Date Reported: 3/9/2023

CLIENT: OhioEPA-DDAGW

Collection Date:

Project: Ohio EPA PWS-EP

Lab ID: 23030046-010

Matrix: DRINKING WATER

Client Sample ID: Trip Blank 2

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DRINKING WATER VOCS (EPA 524.2)				E524.2		Analyst: ZDA
VOC-GC/MS (524.2)						
Surr: 1,2-Dichlorobenzene-d4	84.5	70	-	130	%Rec	1 3/5/2023 9:12:00 PM
Surr: 4-Bromofluorobenzene	86.3	70	-	130	%Rec	1 3/5/2023 9:12:00 PM
VOC ANALYSIS (8260D)				SW8260		Analyst: MES
VOC BY GC/MS (8260D)						
Freon-113	ND	5.00		µg/L	1	3/5/2023 4:32:00 AM
1,3-Butadiene	ND	5.00		µg/L	1	3/5/2023 4:32:00 AM
1,4-Dioxane	ND	25.0		µg/L	1	3/5/2023 4:32:00 AM
2,2-Dichloropropane	ND	5.00		µg/L	1	3/5/2023 4:32:00 AM
2-Butanone	ND	25.0		µg/L	1	3/5/2023 4:32:00 AM
2-Nitropropane	ND	50.0		µg/L	1	3/5/2023 4:32:00 AM
Acrylonitrile (2-propenenitrile)	ND	30.0		µg/L	1	3/5/2023 4:32:00 AM
Allyl chloride	ND	5.00		µg/L	1	3/5/2023 4:32:00 AM
Carbon disulfide	ND	5.00		µg/L	1	3/5/2023 4:32:00 AM
Chloroprene	ND	5.00		µg/L	1	3/5/2023 4:32:00 AM
Cyclohexanone	ND	5.00		µg/L	1	3/5/2023 4:32:00 AM
Ethyl Ether	ND	10.0		µg/L	1	3/5/2023 4:32:00 AM
Epichlorohydrin	ND	20.0		µg/L	1	3/5/2023 4:32:00 AM
ETBE	ND	5.00		µg/L	1	3/5/2023 4:32:00 AM
Ethyl acrylate	ND	5.00		µg/L	1	3/5/2023 4:32:00 AM
Ethyl methacrylate	ND	5.00		µg/L	1	3/5/2023 4:32:00 AM
Hexachloroethane	ND	5.00		µg/L	1	3/5/2023 4:32:00 AM
Diisopropyl ether (DIPE)	ND	5.00		µg/L	1	3/5/2023 4:32:00 AM
Methacrylonitrile	ND	5.00		µg/L	1	3/5/2023 4:32:00 AM
Methyl acrylate	ND	5.00		µg/L	1	3/5/2023 4:32:00 AM
Methyl methacrylate	ND	5.00		µg/L	1	3/5/2023 4:32:00 AM
Propionitrile	ND	5.00		µg/L	1	3/5/2023 4:32:00 AM
trans-1,4-Dichloro-2-butene	ND	5.00		µg/L	1	3/5/2023 4:32:00 AM
Vinyl acetate	ND	5.00		µg/L	1	3/5/2023 4:32:00 AM
1,2,3-Trimethylbenzene	ND	5.00		µg/L	1	3/5/2023 4:32:00 AM
Surr: 4-Bromofluorobenzene	91.7	70	-	130	%Rec	1 3/5/2023 4:32:00 AM
Surr: Dibromofluoromethane	102	70	-	130	%Rec	1 3/5/2023 4:32:00 AM
Surr: Toluene-d8	98.2	70	-	130	%Rec	1 3/5/2023 4:32:00 AM

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

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Analytical Report

(consolidated)

WO#: **23030046**

Date Reported: **3/9/2023**

CLIENT: OhioEPA-DDAGW

Collection Date:

Project: Ohio EPA PWS-EP

Lab ID: 23030046-010

Matrix: DRINKING WATER

Client Sample ID: Trip Blank 2

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOC TENTATIVELY IDENTIFIED COMPOUNDS (TICS)				SW8260	Analyst: MES	
TIC: 1-Chlorobutane	ND			µg/L	1	3/5/2023 4:32:00 AM
TIC: 1-Methylnaphthalene	ND			µg/L	1	3/5/2023 4:32:00 AM
TIC: 2-Butyloxyethyl acetate	ND			µg/L	1	3/5/2023 4:32:00 AM
TIC: 2-Ethylhexyl acrylate	ND			µg/L	1	3/5/2023 4:32:00 AM
TIC: Benzyl chloride	ND			µg/L	1	3/5/2023 4:32:00 AM
TIC: Bromoethane	ND			µg/L	1	3/5/2023 4:32:00 AM
TIC: Chloroacetonitrile	ND			µg/L	1	3/5/2023 4:32:00 AM
TIC: n-Butyl acrylate	ND			µg/L	1	3/5/2023 4:32:00 AM
TIC: Pentachloroethane	ND			µg/L	1	3/5/2023 4:32:00 AM

Qualifiers:	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	M	Manual Integration used to determine area response	ND	Not Detected
	PL	Permit Limit	R	RPD outside accepted recovery limits
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Analytical Report

(consolidated)

WO#: 23030046

Date Reported: 3/9/2023

CLIENT: OhioEPA-DDAGW

Collection Date:

Project: Ohio EPA PWS-EP

Lab ID: 23030046-011

Matrix: DRINKING WATER

Client Sample ID: Trip Blank 3

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA504.-DW					E504.1	E504.1
EDB, DBCP, 123TCP BY GC (EPA 504.1)						Analyst: PGP
Dibromochloropropane	ND	0.0400		µg/L	1	3/6/2023 8:57:00 PM
Ethylene dibromide	ND	0.0200		µg/L	1	3/6/2023 8:57:00 PM
DRINKING WATER VOCS (EPA 524.2)					E524.2	Analyst: ZDA
VOC-GC/MS (524.2)						
1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	3/5/2023 9:41:00 PM
1,1,1-Trichloroethane	ND	0.500		µg/L	1	3/5/2023 9:41:00 PM
1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	3/5/2023 9:41:00 PM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	3/5/2023 9:41:00 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/5/2023 9:41:00 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	3/5/2023 9:41:00 PM
1,1-Dichloropropene	ND	0.500		µg/L	1	3/5/2023 9:41:00 PM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	3/5/2023 9:41:00 PM
1,2,3-Trichloropropane	ND	0.500		µg/L	1	3/5/2023 9:41:00 PM
1,2,4-Trichlorobenzene	ND	0.500		µg/L	1	3/5/2023 9:41:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	3/5/2023 9:41:00 PM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	3/5/2023 9:41:00 PM
1,2-Dichloroethane	ND	0.500		µg/L	1	3/5/2023 9:41:00 PM
1,2-Dichloropropane	ND	0.500		µg/L	1	3/5/2023 9:41:00 PM
1,3,5-Trimethylbenzene	ND	0.500		µg/L	1	3/5/2023 9:41:00 PM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	3/5/2023 9:41:00 PM
1,3-Dichloropropane	ND	0.500		µg/L	1	3/5/2023 9:41:00 PM
1,3-Dichloropropene, Total	ND	1.00		µg/L	1	3/5/2023 9:41:00 PM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	3/5/2023 9:41:00 PM
2-Chlorotoluene	ND	0.500		µg/L	1	3/5/2023 9:41:00 PM
2-Hexanone	ND	5.00		µg/L	1	3/5/2023 9:41:00 PM
4-Chlorotoluene	ND	0.500		µg/L	1	3/5/2023 9:41:00 PM
4-Methyl-2-pentanone	ND	5.00		µg/L	1	3/5/2023 9:41:00 PM
Acetone	ND	5.00		µg/L	1	3/5/2023 9:41:00 PM
Benzene	ND	0.500		µg/L	1	3/5/2023 9:41:00 PM
Bromobenzene	ND	0.500		µg/L	1	3/5/2023 9:41:00 PM
Bromodichloromethane	ND	0.500		µg/L	1	3/5/2023 9:41:00 PM
Bromoform	ND	0.500		µg/L	1	3/5/2023 9:41:00 PM
Bromomethane	ND	1.00		µg/L	1	3/5/2023 9:41:00 PM

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

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Analytical Report

(consolidated)

WO#: 23030046

Date Reported: 3/9/2023

CLIENT: OhioEPA-DDAGW

Collection Date:

Project: Ohio EPA PWS-EP

Lab ID: 23030046-011

Matrix: DRINKING WATER

Client Sample ID: Trip Blank 3

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DRINKING WATER VOCS (EPA 524.2)				E524.2	Analyst: ZDA	
VOC-GC/MS (524.2)						
Carbon tetrachloride	ND	0.500		µg/L	1	3/5/2023 9:41:00 PM
Chlorobenzene	ND	0.500		µg/L	1	3/5/2023 9:41:00 PM
Chlorobromomethane	ND	0.500		µg/L	1	3/5/2023 9:41:00 PM
Chlorodibromomethane	ND	0.500		µg/L	1	3/5/2023 9:41:00 PM
Chloroethane	ND	0.500		µg/L	1	3/5/2023 9:41:00 PM
Chloroform	ND	0.500		µg/L	1	3/5/2023 9:41:00 PM
Chloromethane	ND	0.500		µg/L	1	3/5/2023 9:41:00 PM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	3/5/2023 9:41:00 PM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	3/5/2023 9:41:00 PM
Dibromomethane	ND	0.500		µg/L	1	3/5/2023 9:41:00 PM
Dichlorodifluoromethane	ND	0.500		µg/L	1	3/5/2023 9:41:00 PM
Ethylbenzene	ND	0.500		µg/L	1	3/5/2023 9:41:00 PM
Hexachloro-1,3-butadiene	ND	0.500		µg/L	1	3/5/2023 9:41:00 PM
Isopropylbenzene	ND	0.500		µg/L	1	3/5/2023 9:41:00 PM
m,p-Xylene	ND	0.500		µg/L	1	3/5/2023 9:41:00 PM
Methylene chloride	ND	0.500		µg/L	1	3/5/2023 9:41:00 PM
MTBE	ND	0.500		µg/L	1	3/5/2023 9:41:00 PM
n-Butylbenzene	ND	0.500		µg/L	1	3/5/2023 9:41:00 PM
n-Propylbenzene	ND	0.500		µg/L	1	3/5/2023 9:41:00 PM
o-Xylene	ND	0.500		µg/L	1	3/5/2023 9:41:00 PM
p-Isopropyltoluene	ND	0.500		µg/L	1	3/5/2023 9:41:00 PM
sec-Butylbenzene	ND	0.500		µg/L	1	3/5/2023 9:41:00 PM
Styrene	ND	0.500		µg/L	1	3/5/2023 9:41:00 PM
Tert-amyl methyl ether	ND	0.500		µg/L	1	3/5/2023 9:41:00 PM
Tert-butyl Alcohol	ND	5.00		µg/L	1	3/5/2023 9:41:00 PM
tert-Butylbenzene	ND	0.500		µg/L	1	3/5/2023 9:41:00 PM
Tetrachloroethene	ND	0.500		µg/L	1	3/5/2023 9:41:00 PM
Toluene	ND	0.500		µg/L	1	3/5/2023 9:41:00 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	3/5/2023 9:41:00 PM
trans-1,3-Dichloropropene	ND	0.500		µg/L	1	3/5/2023 9:41:00 PM
Trichloroethene	ND	0.500		µg/L	1	3/5/2023 9:41:00 PM
Trichlorofluoromethane	ND	0.500		µg/L	1	3/5/2023 9:41:00 PM
Vinyl chloride	ND	0.500		µg/L	1	3/5/2023 9:41:00 PM
Xylenes, Total	ND	0.500		µg/L	1	3/5/2023 9:41:00 PM

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

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Analytical Report

(consolidated)

WO#: 23030046

Date Reported: 3/9/2023

CLIENT: OhioEPA-DDAGW

Collection Date:

Project: Ohio EPA PWS-EP

Lab ID: 23030046-011

Matrix: DRINKING WATER

Client Sample ID: Trip Blank 3

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DRINKING WATER VOCS (EPA 524.2)				E524.2	Analyst: ZDA	
VOC-GC/MS (524.2)						
Surr: 1,2-Dichlorobenzene-d4	87.2	70 - 130		%Rec	1	3/5/2023 9:41:00 PM
Surr: 4-Bromofluorobenzene	82.8	70 - 130		%Rec	1	3/5/2023 9:41:00 PM
VOC ANALYSIS (8260D)				SW8260	Analyst: ALS	
VOC BY GC/MS (8260D)						
Freon-113	ND	5.00		µg/L	1	3/6/2023 2:19:00 AM
1,3-Butadiene	ND	5.00		µg/L	1	3/6/2023 2:19:00 AM
1,4-Dioxane	ND	25.0	QC-	µg/L	1	3/6/2023 2:19:00 AM
2,2-Dichloropropane	ND	5.00	QC-	µg/L	1	3/6/2023 2:19:00 AM
2-Butanone	ND	25.0		µg/L	1	3/6/2023 2:19:00 AM
2-Nitropropane	ND	50.0	QL+	µg/L	1	3/6/2023 2:19:00 AM
Acrylonitrile (2-propenenitrile)	ND	30.0		µg/L	1	3/6/2023 2:19:00 AM
Allyl chloride	ND	5.00		µg/L	1	3/6/2023 2:19:00 AM
Carbon disulfide	ND	5.00		µg/L	1	3/6/2023 2:19:00 AM
Chloroprene	ND	5.00		µg/L	1	3/6/2023 2:19:00 AM
Cyclohexanone	ND	5.00		µg/L	1	3/6/2023 2:19:00 AM
Ethyl Ether	ND	10.0		µg/L	1	3/6/2023 2:19:00 AM
Epichlorohydrin	ND	20.0		µg/L	1	3/8/2023 12:55:00 PM
ETBE	ND	5.00		µg/L	1	3/6/2023 2:19:00 AM
Ethyl acrylate	ND	5.00		µg/L	1	3/6/2023 2:19:00 AM
Ethyl methacrylate	ND	5.00		µg/L	1	3/6/2023 2:19:00 AM
Hexachloroethane	ND	5.00		µg/L	1	3/6/2023 2:19:00 AM
Diisopropyl ether (DIPE)	ND	5.00		µg/L	1	3/6/2023 2:19:00 AM
Methacrylonitrile	ND	5.00		µg/L	1	3/6/2023 2:19:00 AM
Methyl acrylate	ND	5.00		µg/L	1	3/6/2023 2:19:00 AM
Methyl methacrylate	ND	5.00		µg/L	1	3/6/2023 2:19:00 AM
Propionitrile	ND	5.00		µg/L	1	3/6/2023 2:19:00 AM
trans-1,4-Dichloro-2-butene	ND	5.00	QC-	µg/L	1	3/6/2023 2:19:00 AM
Vinyl acetate	ND	5.00		µg/L	1	3/6/2023 2:19:00 AM
1,2,3-Trimethylbenzene	ND	5.00		µg/L	1	3/6/2023 2:19:00 AM
Surr: 4-Bromofluorobenzene	97.3	70 - 130		%Rec	1	3/6/2023 2:19:00 AM
Surr: 4-Bromofluorobenzene	98.4	70 - 130		%Rec	1	3/8/2023 12:55:00 PM
Surr: Dibromofluoromethane	103	70 - 130		%Rec	1	3/6/2023 2:19:00 AM
Surr: Dibromofluoromethane	102	70 - 130		%Rec	1	3/8/2023 12:55:00 PM

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

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

Analytical Report

(consolidated)

WO#: 23030046

Date Reported: 3/9/2023

CLIENT: OhioEPA-DDAGW

Collection Date:

Project: Ohio EPA PWS-EP

Lab ID: 23030046-011

Matrix: DRINKING WATER

Client Sample ID: Trip Blank 3

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOC ANALYSIS (8260D)

SW8260

Analyst: ALS

VOC BY GC/MS (8260D)

Surr: Toluene-d8	99.1	70 - 130	%Rec	1	3/6/2023 2:19:00 AM
Surr: Toluene-d8	97.4	70 - 130	%Rec	1	3/8/2023 12:55:00 PM

VOC TENTATIVELY IDENTIFIED COMPOUNDS (TICS)

SW8260

Analyst: ALS

TIC: 1-Chlorobutane	ND		µg/L	1	3/6/2023 2:19:00 AM
TIC: 1-Methylnaphthalene	ND		µg/L	1	3/6/2023 2:19:00 AM
TIC: 2-Butyloxyethyl acetate	ND		µg/L	1	3/6/2023 2:19:00 AM
TIC: 2-Ethylhexyl acrylate	ND		µg/L	1	3/6/2023 2:19:00 AM
TIC: Benzyl chloride	ND		µg/L	1	3/6/2023 2:19:00 AM
TIC: Bromoethane	ND		µg/L	1	3/6/2023 2:19:00 AM
TIC: Chloroacetonitrile	ND		µg/L	1	3/6/2023 2:19:00 AM
TIC: n-Butyl acrylate	ND		µg/L	1	3/6/2023 2:19:00 AM
TIC: Pentachloroethane	ND		µg/L	1	3/6/2023 2:19:00 AM

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

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Analytical Report

(consolidated)

WO#: 23030046

Date Reported: 3/9/2023

CLIENT: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP
Lab ID: 23030046-012
Client Sample ID: Trip Blank 4

Collection Date:

Matrix: DRINKING WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA504.-DW				E504.1	E504.1	Analyst: PGP
EDB, DBCP, 123TCP BY GC (EPA 504.1)						
Dibromochloropropane	ND	0.0400		µg/L	1	3/6/2023 9:18:00 PM
Ethylene dibromide	ND	0.0200		µg/L	1	3/6/2023 9:18:00 PM
DRINKING WATER VOCS (EPA 524.2)				E524.2		Analyst: ZDA
VOC-GC/MS (524.2)						
1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	3/5/2023 10:10:00 PM
1,1,1-Trichloroethane	ND	0.500		µg/L	1	3/5/2023 10:10:00 PM
1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	3/5/2023 10:10:00 PM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	3/5/2023 10:10:00 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/5/2023 10:10:00 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	3/5/2023 10:10:00 PM
1,1-Dichloropropene	ND	0.500		µg/L	1	3/5/2023 10:10:00 PM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	3/5/2023 10:10:00 PM
1,2,3-Trichloropropane	ND	0.500		µg/L	1	3/5/2023 10:10:00 PM
1,2,4-Trichlorobenzene	ND	0.500		µg/L	1	3/5/2023 10:10:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	3/5/2023 10:10:00 PM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	3/5/2023 10:10:00 PM
1,2-Dichloroethane	ND	0.500		µg/L	1	3/5/2023 10:10:00 PM
1,2-Dichloropropane	ND	0.500		µg/L	1	3/5/2023 10:10:00 PM
1,3,5-Trimethylbenzene	ND	0.500		µg/L	1	3/5/2023 10:10:00 PM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	3/5/2023 10:10:00 PM
1,3-Dichloropropane	ND	0.500		µg/L	1	3/5/2023 10:10:00 PM
1,3-Dichloropropene, Total	ND	1.00		µg/L	1	3/5/2023 10:10:00 PM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	3/5/2023 10:10:00 PM
2-Chlorotoluene	ND	0.500		µg/L	1	3/5/2023 10:10:00 PM
2-Hexanone	ND	5.00		µg/L	1	3/5/2023 10:10:00 PM
4-Chlorotoluene	ND	0.500		µg/L	1	3/5/2023 10:10:00 PM
4-Methyl-2-pentanone	ND	5.00		µg/L	1	3/5/2023 10:10:00 PM
Acetone	ND	5.00		µg/L	1	3/5/2023 10:10:00 PM
Benzene	ND	0.500		µg/L	1	3/5/2023 10:10:00 PM
Bromobenzene	ND	0.500		µg/L	1	3/5/2023 10:10:00 PM
Bromodichloromethane	ND	0.500		µg/L	1	3/5/2023 10:10:00 PM
Bromoform	ND	0.500		µg/L	1	3/5/2023 10:10:00 PM
Bromomethane	ND	1.00		µg/L	1	3/5/2023 10:10:00 PM

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

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Analytical Report

(consolidated)

WO#: 23030046

Date Reported: 3/9/2023

CLIENT: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP
Lab ID: 23030046-012
Client Sample ID: Trip Blank 4

Collection Date:
Matrix: DRINKING WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DRINKING WATER VOCS (EPA 524.2)				E524.2	Analyst: ZDA	
VOC-GC/MS (524.2)						
Carbon tetrachloride	ND	0.500		µg/L	1	3/5/2023 10:10:00 PM
Chlorobenzene	ND	0.500		µg/L	1	3/5/2023 10:10:00 PM
Chlorobromomethane	ND	0.500		µg/L	1	3/5/2023 10:10:00 PM
Chlorodibromomethane	ND	0.500		µg/L	1	3/5/2023 10:10:00 PM
Chloroethane	ND	0.500		µg/L	1	3/5/2023 10:10:00 PM
Chloroform	ND	0.500		µg/L	1	3/5/2023 10:10:00 PM
Chloromethane	ND	0.500		µg/L	1	3/5/2023 10:10:00 PM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	3/5/2023 10:10:00 PM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	3/5/2023 10:10:00 PM
Dibromomethane	ND	0.500		µg/L	1	3/5/2023 10:10:00 PM
Dichlorodifluoromethane	ND	0.500		µg/L	1	3/5/2023 10:10:00 PM
Ethylbenzene	ND	0.500		µg/L	1	3/5/2023 10:10:00 PM
Hexachloro-1,3-butadiene	ND	0.500		µg/L	1	3/5/2023 10:10:00 PM
Isopropylbenzene	ND	0.500		µg/L	1	3/5/2023 10:10:00 PM
m,p-Xylene	ND	0.500		µg/L	1	3/5/2023 10:10:00 PM
Methylene chloride	ND	0.500		µg/L	1	3/5/2023 10:10:00 PM
MTBE	ND	0.500		µg/L	1	3/5/2023 10:10:00 PM
n-Butylbenzene	ND	0.500		µg/L	1	3/5/2023 10:10:00 PM
n-Propylbenzene	ND	0.500		µg/L	1	3/5/2023 10:10:00 PM
o-Xylene	ND	0.500		µg/L	1	3/5/2023 10:10:00 PM
p-Isopropyltoluene	ND	0.500		µg/L	1	3/5/2023 10:10:00 PM
sec-Butylbenzene	ND	0.500		µg/L	1	3/5/2023 10:10:00 PM
Styrene	ND	0.500		µg/L	1	3/5/2023 10:10:00 PM
Tert-amyl methyl ether	ND	0.500		µg/L	1	3/5/2023 10:10:00 PM
Tert-butyl Alcohol	ND	5.00		µg/L	1	3/5/2023 10:10:00 PM
tert-Butylbenzene	ND	0.500		µg/L	1	3/5/2023 10:10:00 PM
Tetrachloroethene	ND	0.500		µg/L	1	3/5/2023 10:10:00 PM
Toluene	ND	0.500		µg/L	1	3/5/2023 10:10:00 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	3/5/2023 10:10:00 PM
trans-1,3-Dichloropropene	ND	0.500		µg/L	1	3/5/2023 10:10:00 PM
Trichloroethene	ND	0.500		µg/L	1	3/5/2023 10:10:00 PM
Trichlorofluoromethane	ND	0.500		µg/L	1	3/5/2023 10:10:00 PM
Vinyl chloride	ND	0.500		µg/L	1	3/5/2023 10:10:00 PM
Xylenes, Total	ND	0.500		µg/L	1	3/5/2023 10:10:00 PM

Qualifiers:	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
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Analytical Report

(consolidated)

WO#: 23030046

Date Reported: 3/9/2023

CLIENT: OhioEPA-DDAGW

Collection Date:

Project: Ohio EPA PWS-EP

Lab ID: 23030046-012

Matrix: DRINKING WATER

Client Sample ID: Trip Blank 4

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DRINKING WATER VOCS (EPA 524.2)				E524.2	Analyst: ZDA	
VOC-GC/MS (524.2)						
Surr: 1,2-Dichlorobenzene-d4	85.8	70 - 130		%Rec	1	3/5/2023 10:10:00 PM
Surr: 4-Bromofluorobenzene	83.0	70 - 130		%Rec	1	3/5/2023 10:10:00 PM
VOC ANALYSIS (8260D)				SW8260	Analyst: ALS	
VOC BY GC/MS (8260D)						
Freon-113	ND	5.00		µg/L	1	3/6/2023 2:43:00 AM
1,3-Butadiene	ND	5.00		µg/L	1	3/6/2023 2:43:00 AM
1,4-Dioxane	ND	25.0	QC-	µg/L	1	3/6/2023 2:43:00 AM
2,2-Dichloropropane	ND	5.00	QC-	µg/L	1	3/6/2023 2:43:00 AM
2-Butanone	ND	25.0		µg/L	1	3/6/2023 2:43:00 AM
2-Nitropropane	ND	50.0	QL+	µg/L	1	3/6/2023 2:43:00 AM
Acrylonitrile (2-propenenitrile)	ND	30.0		µg/L	1	3/6/2023 2:43:00 AM
Allyl chloride	ND	5.00		µg/L	1	3/6/2023 2:43:00 AM
Carbon disulfide	ND	5.00		µg/L	1	3/6/2023 2:43:00 AM
Chloroprene	ND	5.00		µg/L	1	3/6/2023 2:43:00 AM
Cyclohexanone	ND	5.00		µg/L	1	3/6/2023 2:43:00 AM
Ethyl Ether	ND	10.0		µg/L	1	3/6/2023 2:43:00 AM
Epichlorohydrin	ND	20.0		µg/L	1	3/8/2023 1:19:00 PM
ETBE	ND	5.00		µg/L	1	3/6/2023 2:43:00 AM
Ethyl acrylate	ND	5.00		µg/L	1	3/6/2023 2:43:00 AM
Ethyl methacrylate	ND	5.00		µg/L	1	3/6/2023 2:43:00 AM
Hexachloroethane	ND	5.00		µg/L	1	3/6/2023 2:43:00 AM
Diisopropyl ether (DIPE)	ND	5.00		µg/L	1	3/6/2023 2:43:00 AM
Methacrylonitrile	ND	5.00		µg/L	1	3/6/2023 2:43:00 AM
Methyl acrylate	ND	5.00		µg/L	1	3/6/2023 2:43:00 AM
Methyl methacrylate	ND	5.00		µg/L	1	3/6/2023 2:43:00 AM
Propionitrile	ND	5.00		µg/L	1	3/6/2023 2:43:00 AM
trans-1,4-Dichloro-2-butene	ND	5.00	QC-	µg/L	1	3/6/2023 2:43:00 AM
Vinyl acetate	ND	5.00		µg/L	1	3/6/2023 2:43:00 AM
1,2,3-Trimethylbenzene	ND	5.00		µg/L	1	3/6/2023 2:43:00 AM
Surr: 4-Bromofluorobenzene	97.0	70 - 130		%Rec	1	3/6/2023 2:43:00 AM
Surr: 4-Bromofluorobenzene	101	70 - 130		%Rec	1	3/8/2023 1:19:00 PM
Surr: Dibromofluoromethane	102	70 - 130		%Rec	1	3/6/2023 2:43:00 AM
Surr: Dibromofluoromethane	101	70 - 130		%Rec	1	3/8/2023 1:19:00 PM

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

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Analytical Report

(consolidated)

WO#: 23030046

Date Reported: 3/9/2023

CLIENT: OhioEPA-DDAGW

Collection Date:

Project: Ohio EPA PWS-EP

Lab ID: 23030046-012

Matrix: DRINKING WATER

Client Sample ID: Trip Blank 4

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOC ANALYSIS (8260D)					SW8260	Analyst: ALS
VOC BY GC/MS (8260D)						
Surr: Toluene-d8	100	70 - 130	%Rec		1	3/6/2023 2:43:00 AM
Surr: Toluene-d8	100	70 - 130	%Rec		1	3/8/2023 1:19:00 PM
VOC TENTATIVELY IDENTIFIED COMPOUNDS (TICS)					SW8260	Analyst: ALS
TIC: 1-Chlorobutane	ND			µg/L	1	3/6/2023 2:43:00 AM
TIC: 1-Methylnaphthalene	ND			µg/L	1	3/6/2023 2:43:00 AM
TIC: 2-Butyloxyethyl acetate	ND			µg/L	1	3/6/2023 2:43:00 AM
TIC: 2-Ethylhexyl acrylate	ND			µg/L	1	3/6/2023 2:43:00 AM
TIC: Benzyl chloride	ND			µg/L	1	3/6/2023 2:43:00 AM
TIC: Bromoethane	ND			µg/L	1	3/6/2023 2:43:00 AM
TIC: Chloroacetonitrile	ND			µg/L	1	3/6/2023 2:43:00 AM
TIC: n-Butyl acrylate	ND			µg/L	1	3/6/2023 2:43:00 AM
TIC: Pentachloroethane	ND			µg/L	1	3/6/2023 2:43:00 AM

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

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QC SUMMARY REPORT

WO#: 23030046
 09-Mar-23

Client: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP

BatchID: 63294

Sample ID: MB-63294	SampType: MBLK	TestCode: SVOC-MSTR	Units: µg/L	Prep Date: 3/5/2023	RunNo: 159344						
Client ID: PBW	Batch ID: 63294	TestNo: SW8270	SW3510C	Analysis Date: 3/6/2023	SeqNo: 4235778						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,6-Dinitrotoluene	ND	5.00		0	0						
2-Methylnaphthalene	ND	5.00		0	0						
3,3'-Dichlorobenzidine	ND	20.0		0	0						
4-Nitrophenol	ND	5.00		0	0						
Acenaphthene	ND	5.00		0	0						
Bis(2-chloroethyl) ether	ND	5.00		0	0						
Di-n-octyl phthalate	ND	5.00		0	0						
Fluoranthene	ND	5.00		0	0						
Naphthalene	ND	5.00		0	0						
Phenol	ND	20.0		0	0						
3&4-Methylphenol	ND	5.00		0	0						
Surr: 2-Fluorophenol	0.0309		0.05000		61.8	20	130				
Surr: Phenol-d6	0.0193		0.05000		38.7	20	130				
Surr: Nitrobenzene-d5	0.0409		0.05000		81.9	27.4	130				
Surr: 2,4,6-Tribromophenol	0.0491		0.05000		98.3	54.3	133				
Surr: 2-Fluorobiphenyl	0.0425		0.05000		84.9	25.6	130				
Surr: p-Terphenyl-d14	0.0549		0.05000		110	20	181				

Sample ID: LCS-63294	SampType: LCS	TestCode: SVOC-MSTR	Units: µg/L	Prep Date: 3/5/2023	RunNo: 159344						
Client ID: LCSW	Batch ID: 63294	TestNo: SW8270	SW3510C	Analysis Date: 3/6/2023	SeqNo: 4235779						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,6-Dinitrotoluene	48.8	5.00	40.0	0	122	64.9	130				
2-Methylnaphthalene	45.5	5.00	40.0	0	114	32.8	130				
3,3'-Dichlorobenzidine	85.8	20.0	80.0	0	107	10	281				

Qualifiers:

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

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QC SUMMARY REPORT

WO#: 23030046
 09-Mar-23

Client: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP

BatchID: 63294

Sample ID: LCS-63294	SampType: LCS	TestCode: SVOC-MSTR	Units: µg/L	Prep Date: 3/5/2023	RunNo: 159344						
Client ID: LCSW	Batch ID: 63294	TestNo: SW8270	SW3510C	Analysis Date: 3/6/2023	SeqNo: 4235779						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Nitrophenol	27.9	5.00	40.0	0	69.8	25.1	130				m
Acenaphthene	47.3	5.00	40.0	0	118	43.7	130				
Bis(2-chloroethyl) ether	43.2	5.00	40.0	0	108	15.6	130				
Di-n-octyl phthalate	60.4	5.00	40.0	0	151	70	140				S
Fluoranthene	48.2	5.00	40.0	0	120	64.9	130				
Naphthalene	42.4	5.00	40.0	0	106	27.2	130				
Phenol	20.8	20.0	40.0	0	51.9	10	130				
3&4-Methylphenol	38.4	5.00	40.0	0	96.1	29.7	130				
Surr: 2-Fluorophenol	0.0291		0.05000		58.3	20	130				
Surr: Phenol-d6	0.0210		0.05000		42.0	20	130				
Surr: Nitrobenzene-d5	0.0447		0.05000		89.4	27.4	130				
Surr: 2,4,6-Tribromophenol	0.0497		0.05000		99.4	54.3	133				
Surr: 2-Fluorobiphenyl	0.0455		0.05000		91.0	25.6	130				
Surr: p-Terphenyl-d14	0.0540		0.05000		108	20	181				

Sample ID: LCSD-63294	SampType: LCSD	TestCode: SVOC-MSTR	Units: µg/L	Prep Date: 3/5/2023	RunNo: 159344						
Client ID: LCSS02	Batch ID: 63294	TestNo: SW8270	SW3510C	Analysis Date: 3/6/2023	SeqNo: 4235780						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,6-Dinitrotoluene	49.1	5.00	40.0	0	123	64.9	130	48.8	0.694	30	
2-Methylnaphthalene	46.4	5.00	40.0	0	116	32.8	130	45.5	1.87	30	
3,3'-Dichlorobenzidine	82.2	20.0	80.0	0	103	10	281	85.8	4.21	30	
4-Nitrophenol	31.0	5.00	40.0	0	77.6	25.1	130	27.9	10.7	30	m
Acenaphthene	47.1	5.00	40.0	0	118	43.7	130	47.3	0.381	30	
Bis(2-chloroethyl) ether	43.5	5.00	40.0	0	109	15.6	130	43.2	0.669	30	

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded M Manual Integration used to determine area respon
 ND Not Detected PL Permit Limit R RPD outside accepted recovery limits
 RL Reporting Detection Limit S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as sp

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QC SUMMARY REPORT

WO#: 23030046
 09-Mar-23

Client: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP

BatchID: 63294

Sample ID: LCSD-63294	SampType: LCSD	TestCode: SVOC-MSTR	Units: µg/L	Prep Date: 3/5/2023	RunNo: 159344						
Client ID: LCSS02	Batch ID: 63294	TestNo: SW8270	SW3510C	Analysis Date: 3/6/2023	SeqNo: 4235780						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Di-n-octyl phthalate	60.3	5.00	40.0	0	151	70	140	60.4	0.0331	30	S
Fluoranthene	48.6	5.00	40.0	0	122	64.9	130	48.2	0.971	30	
Naphthalene	42.8	5.00	40.0	0	107	27.2	130	42.4	0.938	30	
Phenol	21.2	20.0	40.0	0	53.1	10	130	20.8	2.24	30	
3&4-Methylphenol	39.0	5.00	40.0	0	97.4	29.7	130	38.4	1.40	30	
Surr: 2-Fluorophenol	0.0294		0.05000		58.8	20	130		0		
Surr: Phenol-d6	0.0211		0.05000		42.2	20	130		0		
Surr: Nitrobenzene-d5	0.0432		0.05000		86.5	27.4	130		0		
Surr: 2,4,6-Tribromophenol	0.0491		0.05000		98.1	54.3	133		0		
Surr: 2-Fluorobiphenyl	0.0428		0.05000		85.6	25.6	130		0		
Surr: p-Terphenyl-d14	0.0516		0.05000		103	20	181		0		

Qualifiers:

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

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>

QC SUMMARY REPORT

WO#: 23030046
 09-Mar-23

Client: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP

BatchID: 63313

Sample ID: LCS-63313	SampType: LCS	TestCode: SVOC_DW(5)	Units: µg/L	Prep Date: 3/6/2023	RunNo: 159354						
Client ID: LCSW	Batch ID: 63313	TestNo: E504.1	E504.1	Analysis Date: 3/6/2023	SeqNo: 4236233						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dibromochloropropane	0.511	0.0200	0.5000	0	102	70	130				
Ethylene dibromide	0.478	0.0100	0.5000	0	95.6	70	130				

Sample ID: LCSD-63313	SampType: LCSD	TestCode: SVOC_DW(5)	Units: µg/L	Prep Date: 3/6/2023	RunNo: 159354						
Client ID: LCSS02	Batch ID: 63313	TestNo: E504.1	E504.1	Analysis Date: 3/6/2023	SeqNo: 4236234						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dibromochloropropane	0.528	0.0200	0.5000	0	106	70	130	0.5110	3.27	20	
Ethylene dibromide	0.509	0.0100	0.5000	0	102	70	130	0.4780	6.28	20	

Sample ID: MB-63313	SampType: MBLK	TestCode: SVOC_DW(5)	Units: µg/L	Prep Date: 3/6/2023	RunNo: 159354						
Client ID: PBW	Batch ID: 63313	TestNo: E504.1	E504.1	Analysis Date: 3/6/2023	SeqNo: 4236270						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dibromochloropropane	ND	0.0200									
Ethylene dibromide	ND	0.0100									

Qualifiers:

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

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 Cuyahoga Falls, Ohio 44223
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QC SUMMARY REPORT

WO#: 23030046
 09-Mar-23

Client: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP

BatchID: 63330

Sample ID: MB-63330	SampType: MBLK	TestCode: SVOC_DW(5)	Units: µg/L	Prep Date: 3/6/2023	RunNo: 159443						
Client ID: PBW	Batch ID: 63330	TestNo: E525	525	Analysis Date: 3/7/2023	SeqNo: 4238370						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4-Dinitrotoluene	ND	0.200									
Acenaphthylene	ND	0.100									
Anthracene	ND	0.100									
Benzo(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									
Bis(2-ethylhexyl) phthalate	ND	0.200									
Butyl benzyl phthalate	ND	0.200									
Chrysene	ND	0.100									
Dibenz(a,h)anthracene	ND	0.100									
Diethyl phthalate	ND	0.100									
Di-n-butyl phthalate	ND	0.200									
Fluorene	ND	0.100									
Hexachlorobenzene	ND	0.100									
Hexachlorocyclopentadiene	ND	0.100									
Indeno(1,2,3-cd)pyrene	ND	1.00									
Isophorone	ND	0.200									
Phenanthrene	ND	0.100									
Pyrene	ND	0.100									
Surr: 1,3-Dimethyl-2-nitrobenzene	4.23		5.000		84.6	70	130				
Surr: Benzo(a)pyrene-d12	4.71		5.000		94.2	70	130				
Surr: Triphenyl phosphate	5.66		5.000		113	70	130				

Qualifiers:	E Value above quantitation range	H Holding times for preparation or analysis exceeded	M Manual Integration used to determine area respon
	ND Not Detected	PL Permit Limit	R RPD outside accepted recovery limits
	RL Reporting Detection Limit	S Spike Recovery outside accepted recovery limits	W Sample container temperature is out of limit as sp

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 Cuyahoga Falls, Ohio 44223
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QC SUMMARY REPORT

WO#: 23030046
 09-Mar-23

Client: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP

BatchID: 63330

Sample ID: LCS-63330	SampType: LCS	TestCode: SVOC_DW(5)	Units: µg/L	Prep Date: 3/6/2023	RunNo: 159443						
Client ID: LCSW	Batch ID: 63330	TestNo: E525	525	Analysis Date: 3/7/2023	SeqNo: 4238371						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4-Dinitrotoluene	4.58	0.200	5.000	0	91.6	70	130				
Acenaphthylene	4.45	0.100	5.000	0	89.0	70	130				
Anthracene	4.82	0.100	5.000	0	96.4	70	130				
Benzo(a)anthracene	4.67	0.100	5.000	0	93.4	70	130				
Benzo(a)pyrene	4.11	0.100	5.000	0	82.2	70	130				
Benzo(b)fluoranthene	4.07	0.100	5.000	0	81.4	70	130				
Benzo(g,h,i)perylene	4.09	0.100	5.000	0	81.8	70	130				
Benzo(k)fluoranthene	4.57	0.100	5.000	0	91.4	70	130				
Bis(2-ethylhexyl) phthalate	4.07	0.200	5.000	0	81.4	70	130				
Butyl benzyl phthalate	5.06	0.200	5.000	0	101	70	130				
Chrysene	4.82	0.100	5.000	0	96.4	70	130				
Dibenz(a,h)anthracene	3.95	0.100	5.000	0	79.0	70	130				
Diethyl phthalate	5.11	0.100	5.000	0	102	70	130				
Di-n-butyl phthalate	5.25	0.200	5.000	0	105	70	130				
Fluorene	4.76	0.100	5.000	0	95.2	70	130				
Hexachlorobenzene	4.50	0.100	5.000	0	90.0	70	130				
Hexachlorocyclopentadiene	3.14	0.100	5.000	0	62.8	70	130				S
Indeno(1,2,3-cd)pyrene	3.62	1.00	5.000	0	72.4	70	130				
Isophorone	4.23	0.200	5.000	0	84.6	70	130				
Phenanthrene	4.88	0.100	5.000	0	97.6	70	130				
Pyrene	4.93	0.100	5.000	0	98.6	70	130				
Surr: 1,3-Dimethyl-2-nitrobenzene	4.27		5.000		85.4	70	130				
Surr: Benzo(a)pyrene-d12	4.28		5.000		85.6	70	130				
Surr: Triphenyl phosphate	5.96		5.000		119	70	130				

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded M Manual Integration used to determine area respon
 ND Not Detected PL Permit Limit R RPD outside accepted recovery limits
 RL Reporting Detection Limit S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as sp

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 3310 Win St.
 Cuyahoga Falls, Ohio 44223
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 Website: <http://www.settek.com>

QC SUMMARY REPORT

WO#: 23030046
 09-Mar-23

Client: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP

BatchID: 63330

Sample ID: LCSD-63330	SampType: LCSD	TestCode: SVOC_DW(5)	Units: µg/L	Prep Date: 3/6/2023	RunNo: 159443						
Client ID: LCSS02	Batch ID: 63330	TestNo: E525	525	Analysis Date: 3/7/2023	SeqNo: 4238372						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4-Dinitrotoluene	4.84	0.200	5.000	0	96.8	70	130	4.580	5.52	30	
Acenaphthylene	4.53	0.100	5.000	0	90.6	70	130	4.450	1.78	30	
Anthracene	5.07	0.100	5.000	0	101	70	130	4.820	5.06	30	
Benzo(a)anthracene	5.15	0.100	5.000	0	103	70	130	4.670	9.78	30	
Benzo(a)pyrene	4.82	0.100	5.000	0	96.4	70	130	4.110	15.9	30	
Benzo(b)fluoranthene	4.60	0.100	5.000	0	92.0	70	130	4.070	12.2	30	
Benzo(g,h,i)perylene	4.86	0.100	5.000	0	97.2	70	130	4.090	17.2	30	
Benzo(k)fluoranthene	5.22	0.100	5.000	0	104	70	130	4.570	13.3	30	
Bis(2-ethylhexyl) phthalate	4.73	0.200	5.000	0	94.6	70	130	4.070	15.0	30	
Butyl benzyl phthalate	5.25	0.200	5.000	0	105	70	130	5.060	3.69	30	
Chrysene	5.30	0.100	5.000	0	106	70	130	4.820	9.49	30	
Dibenz(a,h)anthracene	4.69	0.100	5.000	0	93.8	70	130	3.950	17.1	30	
Diethyl phthalate	5.28	0.100	5.000	0	106	70	130	5.110	3.27	30	
Di-n-butyl phthalate	5.49	0.200	5.000	0	110	70	130	5.250	4.47	30	
Fluorene	4.85	0.100	5.000	0	97.0	70	130	4.760	1.87	30	
Hexachlorobenzene	4.81	0.100	5.000	0	96.2	70	130	4.500	6.66	30	
Hexachlorocyclopentadiene	3.34	0.100	5.000	0	66.8	70	130	3.140	6.17	30	S
Indeno(1,2,3-cd)pyrene	4.50	1.00	5.000	0	90.0	70	130	3.620	21.7	30	
Isophorone	4.24	0.200	5.000	0	84.8	70	130	4.230	0.236	30	
Phenanthrene	5.02	0.100	5.000	0	100	70	130	4.880	2.83	30	
Pyrene	5.11	0.100	5.000	0	102	70	130	4.930	3.59	30	
Surr: 1,3-Dimethyl-2-nitrobenzene	4.08		5.000		81.6	70	130		0	30	
Surr: Benzo(a)pyrene-d12	4.87		5.000		97.4	70	130		0	30	
Surr: Triphenyl phosphate	6.00		5.000		120	70	130		0	30	

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded M Manual Integration used to determine area respon
 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 sp

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 3310 Win St.
 Cuyahoga Falls, Ohio 44223
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QC SUMMARY REPORT

WO#: 23030046
 09-Mar-23

Client: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP

BatchID: 63330

Sample ID: LCS-63330	SampType: LCS	TestCode: SVOC_DW(5)	Units: µg/L	Prep Date: 3/6/2023	RunNo: 159443						
Client ID: LCSW	Batch ID: 63330	TestNo: E525	525	Analysis Date: 3/8/2023	SeqNo: 4238465						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4-Dinitrotoluene	4.60	0.200	5.000	0	92.0	70	130				
Acenaphthylene	4.46	0.100	5.000	0	89.2	70	130				
Anthracene	4.82	0.100	5.000	0	96.4	70	130				
Benzo(a)anthracene	4.70	0.100	5.000	0	94.0	70	130				
Benzo(a)pyrene	4.18	0.100	5.000	0	83.6	70	130				
Benzo(b)fluoranthene	4.00	0.100	5.000	0	80.0	70	130				
Benzo(g,h,i)perylene	4.14	0.100	5.000	0	82.8	70	130				
Benzo(k)fluoranthene	4.50	0.100	5.000	0	90.0	70	130				QC+
Bis(2-ethylhexyl) phthalate	4.02	0.200	5.000	0	80.4	70	130				
Butyl benzyl phthalate	4.99	0.200	5.000	0	99.8	70	130				
Chrysene	4.81	0.100	5.000	0	96.2	70	130				
Dibenz(a,h)anthracene	3.96	0.100	5.000	0	79.2	70	130				
Diethyl phthalate	5.13	0.100	5.000	0	103	70	130				
Di-n-butyl phthalate	5.22	0.200	5.000	0	104	70	130				
Fluorene	4.72	0.100	5.000	0	94.4	70	130				
Hexachlorobenzene	4.53	0.100	5.000	0	90.6	70	130				
Hexachlorocyclopentadiene	3.08	0.100	5.000	0	61.6	70	130				S
Indeno(1,2,3-cd)pyrene	3.77	1.00	5.000	0	75.4	70	130				
Isophorone	4.23	0.200	5.000	0	84.6	70	130				
Phenanthrene	4.84	0.100	5.000	0	96.8	70	130				
Pyrene	4.80	0.100	5.000	0	96.0	70	130				
Surr: 1,3-Dimethyl-2-nitrobenzene	4.27		5.000		85.4	70	130				
Surr: Benzo(a)pyrene-d12	4.36		5.000		87.2	70	130				
Surr: Triphenyl phosphate	5.90		5.000		118	70	130				

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded M Manual Integration used to determine area respon
 ND Not Detected PL Permit Limit R RPD outside accepted recovery limits
 RL Reporting Detection Limit S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as sp

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

QC SUMMARY REPORT

WO#: 23030046
 09-Mar-23

Client: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP

BatchID: 63330

Sample ID: LCSD-63330	SampType: LCSD	TestCode: SVOC_DW(5)	Units: µg/L	Prep Date: 3/6/2023	RunNo: 159443						
Client ID: LCSS02	Batch ID: 63330	TestNo: E525	525	Analysis Date: 3/8/2023	SeqNo: 4239397						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4-Dinitrotoluene	4.73	0.200	5.000	0	94.6	70	130	4.580	3.22	30	
Acenaphthylene	4.58	0.100	5.000	0	91.6	70	130	4.450	2.88	30	
Anthracene	5.02	0.100	5.000	0	100	70	130	4.820	4.07	30	
Benzo(a)anthracene	5.14	0.100	5.000	0	103	70	130	4.670	9.58	30	
Benzo(a)pyrene	4.79	0.100	5.000	0	95.8	70	130	4.110	15.3	30	
Benzo(b)fluoranthene	4.61	0.100	5.000	0	92.2	70	130	4.070	12.4	30	
Benzo(g,h,i)perylene	4.90	0.100	5.000	0	98.0	70	130	4.090	18.0	30	
Benzo(k)fluoranthene	5.24	0.100	5.000	0	105	70	130	4.570	13.7	30	QC+
Bis(2-ethylhexyl) phthalate	4.77	0.200	5.000	0	95.4	70	130	4.070	15.8	30	
Butyl benzyl phthalate	5.18	0.200	5.000	0	104	70	130	5.060	2.34	30	
Chrysene	5.31	0.100	5.000	0	106	70	130	4.820	9.67	30	
Dibenz(a,h)anthracene	4.72	0.100	5.000	0	94.4	70	130	3.950	17.8	30	
Diethyl phthalate	5.23	0.100	5.000	0	105	70	130	5.110	2.32	30	
Di-n-butyl phthalate	5.38	0.200	5.000	0	108	70	130	5.250	2.45	30	
Fluorene	4.80	0.100	5.000	0	96.0	70	130	4.760	0.837	30	
Hexachlorobenzene	4.79	0.100	5.000	0	95.8	70	130	4.500	6.24	30	
Hexachlorocyclopentadiene	3.15	0.100	5.000	0	63.0	70	130	3.140	0.318	30	S
Indeno(1,2,3-cd)pyrene	4.49	1.00	5.000	0	89.8	70	130	3.620	21.5	30	
Isophorone	4.31	0.200	5.000	0	86.2	70	130	4.230	1.87	30	
Phenanthrene	4.98	0.100	5.000	0	99.6	70	130	4.880	2.03	30	
Pyrene	5.05	0.100	5.000	0	101	70	130	4.930	2.40	30	
Surr: 1,3-Dimethyl-2-nitrobenzene	4.18		5.000		83.6	70	130		0	30	
Surr: Benzo(a)pyrene-d12	4.87		5.000		97.4	70	130		0	30	
Surr: Triphenyl phosphate	6.06		5.000		121	70	130		0	30	

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded M Manual Integration used to determine area respon
 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 sp

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

QC SUMMARY REPORT

WO#: 23030046
 09-Mar-23

Client: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP

BatchID: 63330

Sample ID: MB-63330	SampType: MBLK	TestCode: SVOC_DW(5)	Units: µg/L	Prep Date: 3/6/2023	RunNo: 159443						
Client ID: PBW	Batch ID: 63330	TestNo: E525	525	Analysis Date: 3/8/2023	SeqNo: 4239399						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4-Dinitrotoluene	ND	0.200									
Acenaphthylene	ND	0.100									
Anthracene	ND	0.100									
Benzo(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									QC+
Bis(2-ethylhexyl) phthalate	ND	0.200									
Butyl benzyl phthalate	ND	0.200									
Chrysene	ND	0.100									
Dibenz(a,h)anthracene	ND	0.100									
Diethyl phthalate	ND	0.100									
Di-n-butyl phthalate	ND	0.200									
Fluorene	ND	0.100									
Hexachlorobenzene	ND	0.100									
Hexachlorocyclopentadiene	ND	0.100									
Indeno(1,2,3-cd)pyrene	ND	1.00									
Isophorone	ND	0.200									
Phenanthrene	ND	0.100									
Pyrene	ND	0.100									
Surr: 1,3-Dimethyl-2-nitrobenzene	4.25		5.000		85.0	70	130				
Surr: Benzo(a)pyrene-d12	4.61		5.000		92.2	70	130				
Surr: Triphenyl phosphate	5.69		5.000		114	70	130				

Qualifiers:	E Value above quantitation range	H Holding times for preparation or analysis exceeded	M Manual Integration used to determine area respon
	ND Not Detected	PL Permit Limit	R RPD outside accepted recovery limits
	RL Reporting Detection Limit	S Spike Recovery outside accepted recovery limits	W Sample container temperature is out of limit as sp

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QC SUMMARY REPORT

WO#: 23030046
 09-Mar-23

Client: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP

BatchID: R159228

Sample ID: LCS-159228	SampType: LCS	TestCode: VOC-MSTR_	Units: µg/L	Prep Date:	RunNo: 159228						
Client ID: LCSW	Batch ID: R159228	TestNo: SW8260	Analysis Date: 3/4/2023	SeqNo: 4232679							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Freon-113	16.5	5.00	20.00	0	82.7	80	143				
1,3-Butadiene	10.9	5.00	20.00	0	54.3	10	190				
1,4-Dioxane	182	25.0	200.0	0	91.0	10	190				
2,2-Dichloropropane	17.1	5.00	20.00	0	85.5	24	171				
2-Butanone	84.0	25.0	100.0	0	84.0	10	190				
2-Ethylhexyl acrylate	19.0	5.00	20.00	0	94.8	70	130				
2-Nitropropane	ND	50.0	20.00	0	114	10	152				m
Acrylonitrile (2-propenenitrile)	98.2	30.0	120.0	0	81.9	10	190				
Allyl chloride	18.5	5.00	20.00	0	92.7	64	155				
Carbon disulfide	18.2	5.00	20.00	0	91.1	63	149				
Chloroprene	18.9	5.00	20.00	0	94.4	46	164				
Cyclohexanone	79.9	5.00	100.0	0	79.9	10	190				
Ethyl Ether	17.8	10.0	20.00	0	88.8	36	165				
Epichlorohydrin	21.1	20.0	20.00	0	105	10	181				
ETBE	19.8	5.00	20.00	0	98.8	70	130				
Ethyl acrylate	19.0	5.00	20.00	0	95.2	70	130				
Ethyl methacrylate	20.3	5.00	20.00	0	101	59	136				
Hexachloroethane	18.4	5.00	20.00	0	92.0	10	214				
Diisopropyl ether (DIPE)	18.5	5.00	20.00	0	92.7	10	177				
Methacrylonitrile	18.6	5.00	20.00	0	93.2	10	153				
Methyl acrylate	20.8	5.00	20.00	0	104	10	176				
Methyl methacrylate	18.3	5.00	20.00	0	91.7	50	130				
n-Butyl acrylate	21.2	5.00	20.00	0	106	70	130				
Propionitrile	18.7	5.00	20.00	0	93.6	70	130				
trans-1,4-Dichloro-2-butene	17.3	5.00	20.00	0	86.5	10	196				
Vinyl acetate	17.0	5.00	60.00	0	28.4	10	190				

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded M Manual Integration used to determine area respon
 ND Not Detected PL Permit Limit R RPD outside accepted recovery limits
 RL Reporting Detection Limit S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as sp

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>

QC SUMMARY REPORT

WO#: 23030046
 09-Mar-23

Client: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP

BatchID: R159228

Sample ID: LCS-159228	SampType: LCS	TestCode: VOC-MSTR_	Units: µg/L	Prep Date:	RunNo: 159228						
Client ID: LCSW	Batch ID: R159228	TestNo: SW8260	Analysis Date: 3/4/2023	SeqNo: 4232679							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,3-Trimethylbenzene	17.8	5.00	20.00	0	89.1	3.54	177				
Surr: 4-Bromofluorobenzene	50.3		50.00		101	70	130				
Surr: Dibromofluoromethane	50.6		50.00		101	70	130				
Surr: Toluene-d8	50.2		50.00		100	70	130				

Sample ID: LCSD-159228	SampType: LCSD	TestCode: VOC-MSTR_	Units: µg/L	Prep Date:	RunNo: 159228						
Client ID: LCSS02	Batch ID: R159228	TestNo: SW8260	Analysis Date: 3/4/2023	SeqNo: 4232680							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Freon-113	17.3	5.00	20.00	0	86.4	80	143	16.54	4.37	20	
1,3-Butadiene	10.0	5.00	20.00	0	50.1	10	190	10.85	7.91	20	
1,4-Dioxane	180	25.0	100.0	0	180	10	190	182.0	1.15	20	
2,2-Dichloropropane	17.7	5.00	20.00	0	88.3	24	171	17.10	3.26	20	
2-Butanone	85.6	25.0	100.0	0	85.6	10	190	84.03	1.83	20	
2-Ethylhexyl acrylate	19.8	5.00	20.00	0	99.2	70	130	18.95	4.63	0	
2-Nitropropane	ND	50.0	20.00	0	94.3	10	152	0	0	20	m
Acrylonitrile (2-propenenitrile)	102	30.0	250.0	0	41.0	10	190	98.25	4.15	20	
Allyl chloride	18.7	5.00	20.00	0	93.6	64	155	18.54	0.918	20	
Carbon disulfide	18.5	5.00	20.00	0	92.6	63	149	18.21	1.64	20	
Chloroprene	18.5	5.00	20.00	0	92.6	46	164	18.88	1.95	20	
Cyclohexanone	81.2	5.00	100.0	0	81.2	10	190	79.93	1.63	20	
Ethyl Ether	18.0	10.0	20.00	0	90.0	36	165	17.76	1.31	20	
Epichlorohydrin	23.1	20.0	20.00	0	115	10	181	21.09	9.01	20	
ETBE	20.1	5.00	20.00	0	100	70	130	19.76	1.47	0	
Ethyl acrylate	19.0	5.00	20.00	0	95.0	70	130	19.03	0.221	0	

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded M Manual Integration used to determine area respon
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 Cuyahoga Falls, Ohio 44223
 TEL: (330) 253-8211 FAX: (330) 253-4489
 Website: <http://www.settek.com>

QC SUMMARY REPORT

WO#: 23030046
 09-Mar-23

Client: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP

BatchID: R159228

Sample ID: LCSD-159228	SampType: LCSD	TestCode: VOC-MSTR_	Units: µg/L	Prep Date:	RunNo: 159228						
Client ID: LCSS02	Batch ID: R159228	TestNo: SW8260	Analysis Date: 3/4/2023	SeqNo: 4232680							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethyl methacrylate	20.1	5.00	20.00	0	100	59	136	20.26	0.803	20	
Hexachloroethane	18.3	5.00	20.00	0	91.6	10	214	18.40	0.457	20	
Diisopropyl ether (DIPE)	19.2	5.00	20.00	0	96.2	10	177	18.54	3.67	20	
Methacrylonitrile	18.4	5.00	20.00	0	91.8	10	153	18.64	1.48	20	
Methyl acrylate	20.4	5.00	20.00	0	102	10	176	20.82	2.22	20	
Methyl methacrylate	18.7	5.00	20.00	0	93.6	50	130	18.35	1.99	20	
n-Butyl acrylate	21.6	5.00	20.00	0	108	70	130	21.16	2.16	0	
Propionitrile	17.9	5.00	20.00	0	89.5	70	130	18.72	4.47	20	
trans-1,4-Dichloro-2-butene	16.7	5.00	20.00	0	83.4	10	196	17.30	3.57	20	
Vinyl acetate	19.1	5.00	60.00	0	31.8	10	190	17.05	11.2	20	
Surr: 4-Bromofluorobenzene	51.4		50.00		103	70	130		0	20	
Surr: Dibromofluoromethane	50.8		50.00		102	70	130		0	20	
Surr: Toluene-d8	49.8		50.00		99.6	70	130		0	20	

Sample ID: MB-159228	SampType: MBLK	TestCode: VOC-MSTR_	Units: µg/L	Prep Date:	RunNo: 159228						
Client ID: PBW	Batch ID: R159228	TestNo: SW8260	Analysis Date: 3/4/2023	SeqNo: 4232681							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Freon-113	ND	5.00									
1,3-Butadiene	ND	5.00									
1,4-Dioxane	ND	25.0									
2,2-Dichloropropane	ND	5.00									
2-Butanone	ND	25.0									
2-Ethylhexyl acrylate	ND	5.00									
2-Nitropropane	ND	50.0									

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded M Manual Integration used to determine area respon
 ND Not Detected PL Permit Limit R RPD outside accepted recovery limits
 RL Reporting Detection Limit S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as sp

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

QC SUMMARY REPORT

WO#: 23030046
 09-Mar-23

Client: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP

BatchID: R159228

Sample ID: MB-159228	SampType: MBLK	TestCode: VOC-MSTR_	Units: µg/L	Prep Date:	RunNo: 159228						
Client ID: PBW	Batch ID: R159228	TestNo: SW8260		Analysis Date: 3/4/2023	SeqNo: 4232681						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acrylonitrile (2-propenenitrile)	ND	30.0									
Allyl chloride	ND	5.00									
Carbon disulfide	ND	5.00									
Chloroprene	ND	5.00									
Cyclohexanone	ND	5.00									
Ethyl Ether	ND	10.0									
Epichlorohydrin	ND	20.0									
ETBE	ND	5.00									
Ethyl acrylate	ND	5.00									
Ethyl methacrylate	ND	5.00									
Hexachloroethane	ND	5.00									
Diisopropyl ether (DIPE)	ND	5.00									
Methacrylonitrile	ND	5.00									
Methyl acrylate	ND	5.00									
Methyl methacrylate	ND	5.00									
n-Butyl acrylate	ND	5.00									
trans-1,4-Dichloro-2-butene	ND	5.00									
Vinyl acetate	ND	5.00									
1,2,3-Trimethylbenzene	ND	5.00									
Surr: 4-Bromofluorobenzene	49.7		50.00		99.3	70	130				
Surr: Dibromofluoromethane	49.7		50.00		99.4	70	130				
Surr: Toluene-d8	49.8		50.00		99.7	70	130				

Qualifiers:	E Value above quantitation range	H Holding times for preparation or analysis exceeded	M Manual Integration used to determine area respon
	ND Not Detected	PL Permit Limit	R RPD outside accepted recovery limits
	RL Reporting Detection Limit	S Spike Recovery outside accepted recovery limits	W Sample container temperature is out of limit as sp

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

QC SUMMARY REPORT

WO#: 23030046
 09-Mar-23

Client: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP

BatchID: R159228

Sample ID: 23030038-012BDUP	SampType: DUP	TestCode: VOC-MSTR_	Units: µg/L	Prep Date:	RunNo: 159228						
Client ID: BatchQC	Batch ID: R159228	TestNo: SW8260	Analysis Date: 3/5/2023	SeqNo: 4232700							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Freon-113	ND	5.00						0	0	20	
1,3-Butadiene	ND	5.00						0	0	20	
1,4-Dioxane	ND	25.0						0	0	20	
2,2-Dichloropropane	ND	5.00						0	0	20	
2-Butanone	ND	25.0						0	0	20	
2-Ethylhexyl acrylate	ND	5.00						0	0	0	
2-Nitropropane	ND	50.0						0	0	20	
Acrylonitrile (2-propenenitrile)	ND	30.0						0	0	20	
Allyl chloride	ND	5.00						0	0	20	
Carbon disulfide	ND	5.00						0	0	20	
Chloroprene	ND	5.00						0	0	20	
Cyclohexanone	ND	5.00						0	0	20	
Ethyl Ether	ND	10.0						0	0	20	
Epichlorohydrin	ND	20.0						0	0	20	
ETBE	ND	5.00						0	0	0	
Ethyl acrylate	ND	5.00						0	0	0	
Ethyl methacrylate	ND	5.00						0	0	20	
Hexachloroethane	ND	5.00						0	0	20	
Diisopropyl ether (DIPE)	ND	5.00						0	0	20	
Methacrylonitrile	ND	5.00						0	0	20	
Methyl acrylate	ND	5.00						0	0	20	
Methyl methacrylate	ND	5.00						0	0	20	
n-Butyl acrylate	ND	5.00						0	0	0	
trans-1,4-Dichloro-2-butene	ND	5.00						0	0	20	
Vinyl acetate	ND	5.00						0	0	20	
1,2,3-Trimethylbenzene	ND	5.00						0	0	0	

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded M Manual Integration used to determine area respon
 ND Not Detected PL Permit Limit R RPD outside accepted recovery limits
 RL Reporting Detection Limit S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as sp

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

QC SUMMARY REPORT

WO#: **23030046**
09-Mar-23

Client: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP

BatchID: R159228

Sample ID: 23030038-012BDUP	SampType: DUP	TestCode: VOC-MSTR_	Units: µg/L	Prep Date:	RunNo: 159228						
Client ID: BatchQC	Batch ID: R159228	TestNo: SW8260	Analysis Date: 3/5/2023	SeqNo: 4232700							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	46.3		50.00		92.6	70	130		0	20	
Surr: Dibromofluoromethane	50.9		50.00		102	70	130		0	20	
Surr: Toluene-d8	50.1		50.00		100	70	130		0	20	

Qualifiers:	E Value above quantitation range	H Holding times for preparation or analysis exceeded	M Manual Integration used to determine area respon
	ND Not Detected	PL Permit Limit	R RPD outside accepted recovery limits
	RL Reporting Detection Limit	S Spike Recovery outside accepted recovery limits	W Sample container temperature is out of limit as sp

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

QC SUMMARY REPORT

WO#: 23030046
 09-Mar-23

Client: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP

BatchID: R159257

Sample ID: LCS	SampType: LCS	TestCode: VOC_DW(524	Units: µg/L	Prep Date:	RunNo: 159257						
Client ID: LCSW	Batch ID: R159257	TestNo: E524.2	Analysis Date: 3/5/2023	SeqNo: 4233379							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	4.81	0.500	5.000	0	96.1	70	130				
1,1,1-Trichloroethane	5.09	0.500	5.000	0	102	70	130				
1,1,2,2-Tetrachloroethane	5.27	0.500	5.000	0	105	70	130				
1,1,2-Trichloroethane	5.02	0.500	5.000	0	100	70	130				
1,1-Dichloroethane	4.99	0.500	5.000	0	99.9	70	130				
1,1-Dichloroethene	5.07	0.500	5.000	0	101	70	130				
1,1-Dichloropropene	5.16	0.500	5.000	0	103	70	130				
1,2,3-Trichlorobenzene	4.86	0.500	5.000	0	97.2	70	130				
1,2,3-Trichloropropane	5.53	0.500	5.000	0	111	70	130				
1,2,4-Trichlorobenzene	4.89	0.500	5.000	0	97.8	70	130				
1,2,4-Trimethylbenzene	4.78	0.500	5.000	0	95.7	70	130				
1,2-Dichlorobenzene	4.92	0.500	5.000	0	98.3	70	130				
1,2-Dichloroethane	4.86	0.500	5.000	0	97.3	70	130				
1,2-Dichloropropane	5.08	0.500	5.000	0	102	70	130				
1,3,5-Trimethylbenzene	4.98	0.500	5.000	0	99.6	70	130				
1,3-Dichlorobenzene	4.95	0.500	5.000	0	99.0	70	130				
1,3-Dichloropropane	5.15	0.500	5.000	0	103	70	130				
1,4-Dichlorobenzene	4.83	0.500	5.000	0	96.6	70	130				
2-Chlorotoluene	4.93	0.500	5.000	0	98.6	70	130				
4-Chlorotoluene	4.92	0.500	5.000	0	98.3	70	130				
Benzene	5.07	0.500	5.000	0	101	70	130				
Bromobenzene	4.92	0.500	5.000	0	98.4	70	130				
Bromodichloromethane	4.78	0.500	5.000	0	95.7	70	130				
Bromoform	4.60	0.500	5.000	0	92.1	70	130				
Bromomethane	4.49	1.00	5.000	0	89.9	70	130				
Carbon tetrachloride	4.80	0.500	5.000	0	96.0	70	130				

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded M Manual Integration used to determine area respon
 ND Not Detected PL Permit Limit R RPD outside accepted recovery limits
 RL Reporting Detection Limit S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as sp

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 Cuyahoga Falls, Ohio 44223
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QC SUMMARY REPORT

WO#: 23030046
 09-Mar-23

Client: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP

BatchID: R159257

Sample ID: LCS	SampType: LCS	TestCode: VOC_DW(524	Units: µg/L	Prep Date:	RunNo: 159257						
Client ID: LCSW	Batch ID: R159257	TestNo: E524.2	Analysis Date: 3/5/2023	SeqNo: 4233379							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	4.91	0.500	5.000	0	98.2	70	130				
Chlorobromomethane	4.97	0.500	5.000	0	99.4	70	130				
Chlorodibromomethane	4.71	0.500	5.000	0	94.1	70	130				
Chloroethane	4.80	0.500	5.000	0	96.1	70	130				
Chloroform	4.74	0.500	5.000	0	94.7	70	130				
Chloromethane	4.22	0.500	5.000	0	84.4	70	130				
cis-1,2-Dichloroethene	4.60	0.500	5.000	0	92.0	70	130				
cis-1,3-Dichloropropene	4.67	0.500	5.000	0	93.5	70	130				
Dibromomethane	5.02	0.500	5.000	0	100	70	130				
Dichlorodifluoromethane	4.30	0.500	5.000	0	86.0	70	130				
Ethylbenzene	4.75	0.500	5.000	0	95.1	70	130				
Hexachloro-1,3-butadiene	4.87	0.500	5.000	0	97.4	70	130				
Isopropylbenzene	4.88	0.500	5.000	0	97.7	70	130				
m,p-Xylene	9.81	0.500	10.00	0	98.1	70	130				
Methylene chloride	5.34	0.500	5.000	0	107	70	130				
MTBE	4.75	0.500	5.000	0	95.0	70	130				
n-Butylbenzene	4.75	0.500	5.000	0	95.0	70	130				
n-Propylbenzene	4.95	0.500	5.000	0	98.9	70	130				
o-Xylene	5.06	0.500	5.000	0	101	70	130				
p-Isopropyltoluene	4.66	0.500	5.000	0	93.1	70	130				
sec-Butylbenzene	4.81	0.500	5.000	0	96.2	70	130				
Styrene	4.75	0.500	5.000	0	95.0	70	130				
tert-Butylbenzene	4.80	0.500	5.000	0	95.9	70	130				
Tetrachloroethene	5.04	0.500	5.000	0	101	70	130				
Toluene	4.86	0.500	5.000	0	97.1	70	130				
trans-1,2-Dichloroethene	4.99	0.500	5.000	0	99.9	70	130				

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded M Manual Integration used to determine area respon
 ND Not Detected PL Permit Limit R RPD outside accepted recovery limits
 RL Reporting Detection Limit S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as sp

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QC SUMMARY REPORT

WO#: 23030046
 09-Mar-23

Client: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP

BatchID: R159257

Sample ID: LCS	SampType: LCS	TestCode: VOC_DW(524) Units: µg/L	Prep Date:	RunNo: 159257							
Client ID: LCSW	Batch ID: R159257	TestNo: E524.2	Analysis Date: 3/5/2023	SeqNo: 4233379							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,3-Dichloropropene	4.61	0.500	5.000	0	92.2	70	130				
Trichloroethene	4.79	0.500	5.000	0	95.8	70	130				
Trichlorofluoromethane	4.88	0.500	5.000	0	97.7	70	130				
Vinyl chloride	4.11	0.500	5.000	0	82.3	70	130				
Xylenes, Total	14.9	0.500	15.00	0	99.1	70	130				
Surr: 1,2-Dichlorobenzene-d4	9.96		10.00		99.6	70	130				
Surr: 4-Bromofluorobenzene	10.1		10.00		101	70	130				

Sample ID: MB	SampType: MBLK	TestCode: VOC_DW(524) Units: µg/L	Prep Date:	RunNo: 159257							
Client ID: PBW	Batch ID: R159257	TestNo: E524.2	Analysis Date: 3/5/2023	SeqNo: 4233380							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	0.500									
1,1,1-Trichloroethane	ND	0.500									
1,1,2,2-Tetrachloroethane	ND	0.500									
1,1,2-Trichloroethane	ND	0.500									
1,1-Dichloroethane	ND	0.500									
1,1-Dichloroethene	ND	0.500									
1,1-Dichloropropene	ND	0.500									
1,2,3-Trichlorobenzene	ND	0.500									
1,2,3-Trichloropropane	ND	0.500									
1,2,4-Trichlorobenzene	ND	0.500									
1,2,4-Trimethylbenzene	ND	0.500									
1,2-Dichlorobenzene	ND	0.500									
1,2-Dichloroethane	ND	0.500									

Qualifiers:

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

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>

QC SUMMARY REPORT

WO#: 23030046
 09-Mar-23

Client: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP

BatchID: R159257

Sample ID: MB	SampType: MBLK	TestCode: VOC_DW(524	Units: µg/L	Prep Date:	RunNo: 159257						
Client ID: PBW	Batch ID: R159257	TestNo: E524.2		Analysis Date: 3/5/2023	SeqNo: 4233380						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloropropane	ND	0.500									
1,3,5-Trimethylbenzene	ND	0.500									
1,3-Dichlorobenzene	ND	0.500									
1,3-Dichloropropane	ND	0.500									
1,3-Dichloropropene, Total	ND	1.00									
1,4-Dichlorobenzene	ND	0.500									
2-Chlorotoluene	ND	0.500									
4-Chlorotoluene	ND	0.500									
Benzene	ND	0.500									
Bromobenzene	ND	0.500									
Bromodichloromethane	ND	0.500									
Bromoform	ND	0.500									
Bromomethane	ND	1.00									
Carbon tetrachloride	ND	0.500									
Chlorobenzene	ND	0.500									
Chlorobromomethane	ND	0.500									
Chlorodibromomethane	ND	0.500									
Chloroethane	ND	0.500									
Chloroform	ND	0.500									
Chloromethane	ND	0.500									
cis-1,2-Dichloroethene	ND	0.500									
cis-1,3-Dichloropropene	ND	0.500									
Dibromomethane	ND	0.500									
Dichlorodifluoromethane	ND	0.500									
Ethylbenzene	ND	0.500									
Hexachloro-1,3-butadiene	ND	0.500									

Qualifiers:

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

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QC SUMMARY REPORT

WO#: 23030046
 09-Mar-23

Client: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP

BatchID: R159257

Sample ID: MB	SampType: MBLK	TestCode: VOC_DW(524	Units: µg/L	Prep Date:	RunNo: 159257						
Client ID: PBW	Batch ID: R159257	TestNo: E524.2		Analysis Date: 3/5/2023	SeqNo: 4233380						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Isopropylbenzene	ND	0.500									
m,p-Xylene	ND	0.500									
Methylene chloride	ND	0.500									
MTBE	ND	0.500									
n-Butylbenzene	ND	0.500									
n-Propylbenzene	ND	0.500									
o-Xylene	ND	0.500									
p-Isopropyltoluene	ND	0.500									
sec-Butylbenzene	ND	0.500									
Styrene	ND	0.500									
tert-Butylbenzene	ND	0.500									
Tetrachloroethene	ND	0.500									
Toluene	ND	0.500									
trans-1,2-Dichloroethene	ND	0.500									
trans-1,3-Dichloropropene	ND	0.500									
Trichloroethene	ND	0.500									
Trichlorofluoromethane	ND	0.500									
Vinyl chloride	ND	0.500									
Xylenes, Total	ND	0.500									
Surr: 1,2-Dichlorobenzene-d4	8.57		10.00		85.7	70	130				
Surr: 4-Bromofluorobenzene	8.53		10.00		85.3	70	130				

Qualifiers:	E Value above quantitation range	H Holding times for preparation or analysis exceeded	M Manual Integration used to determine area respon
	ND Not Detected	PL Permit Limit	R RPD outside accepted recovery limits
	RL Reporting Detection Limit	S Spike Recovery outside accepted recovery limits	W Sample container temperature is out of limit as sp

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QC SUMMARY REPORT

WO#: 23030046
 09-Mar-23

Client: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP

BatchID: R159257

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	0.500						0	0	20	
1,1,1-Trichloroethane	ND	0.500						0	0	20	
1,1,2,2-Tetrachloroethane	ND	0.500						0	0	20	
1,1,2-Trichloroethane	ND	0.500						0	0	20	
1,1-Dichloroethane	ND	0.500						0	0	20	
1,1-Dichloroethene	ND	0.500						0	0	20	
1,1-Dichloropropene	ND	0.500						0	0	20	
1,2,3-Trichlorobenzene	ND	0.500						0	0	20	
1,2,3-Trichloropropane	ND	0.500						0	0	20	
1,2,4-Trichlorobenzene	ND	0.500						0	0	20	
1,2,4-Trimethylbenzene	ND	0.500						0	0	20	
1,2-Dichlorobenzene	ND	0.500						0	0	20	
1,2-Dichloroethane	ND	0.500						0	0	20	
1,2-Dichloropropane	ND	0.500						0	0	20	
1,3,5-Trimethylbenzene	ND	0.500						0	0	20	
1,3-Dichlorobenzene	ND	0.500						0	0	20	
1,3-Dichloropropane	ND	0.500						0	0	20	
1,3-Dichloropropene, Total	ND	1.00						0	0	0	
1,4-Dichlorobenzene	ND	0.500						0	0	20	
2-Chlorotoluene	ND	0.500						0	0	20	
4-Chlorotoluene	ND	0.500						0	0	20	
Benzene	ND	0.500						0	0	20	
Bromobenzene	ND	0.500						0	0	20	
Bromodichloromethane	ND	0.500						0	0	20	
Bromoform	ND	0.500						0	0	20	
Bromomethane	ND	1.00						0	0	20	

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area respon
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RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits	W	Sample container temperature is out of limit as sp

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QC SUMMARY REPORT

WO#: 23030046
 09-Mar-23

Client: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP

BatchID: R159257

Sample ID: 23030046-002ADUP	SampType: DUP	TestCode: VOC_DW(524	Units: µg/L	Prep Date:	RunNo: 159257						
Client ID: PW-202 Rhoades W	Batch ID: R159257	TestNo: E524.2	Analysis Date: 3/5/2023	SeqNo: 4233395							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon tetrachloride	ND	0.500						0	0	20	
Chlorobenzene	ND	0.500						0	0	20	
Chlorobromomethane	ND	0.500						0	0	20	
Chlorodibromomethane	ND	0.500						0	0	20	
Chloroethane	ND	0.500						0	0	20	
Chloroform	ND	0.500						0	0	20	
Chloromethane	ND	0.500						0	0	20	
cis-1,2-Dichloroethene	ND	0.500						0	0	20	
cis-1,3-Dichloropropene	ND	0.500						0	0	20	
Dibromomethane	ND	0.500						0	0	20	
Dichlorodifluoromethane	ND	0.500						0	0	20	
Ethylbenzene	ND	0.500						0	0	20	
Hexachloro-1,3-butadiene	ND	0.500						0	0	20	
Isopropylbenzene	ND	0.500						0	0	20	
m,p-Xylene	ND	0.500						0	0	20	
Methylene chloride	ND	0.500						0	0	20	
MTBE	ND	0.500						0	0	20	
n-Butylbenzene	ND	0.500						0	0	20	
n-Propylbenzene	ND	0.500						0	0	20	
o-Xylene	ND	0.500						0	0	20	
p-Isopropyltoluene	ND	0.500						0	0	20	
sec-Butylbenzene	ND	0.500						0	0	20	
Styrene	ND	0.500						0	0	20	
tert-Butylbenzene	ND	0.500						0	0	20	
Tetrachloroethene	ND	0.500						0	0	20	
Toluene	ND	0.500						0	0	20	

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

WO#: 23030046
 09-Mar-23

Client: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP

BatchID: R159257

Sample ID: 23030046-002ADUP	SampType: DUP	TestCode: VOC_DW(524)	Units: µg/L	Prep Date:	RunNo: 159257						
Client ID: PW-202 Rhoades W	Batch ID: R159257	TestNo: E524.2		Analysis Date: 3/5/2023	SeqNo: 4233395						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,2-Dichloroethene	ND	0.500						0	0	20	
trans-1,3-Dichloropropene	ND	0.500						0	0	20	
Trichloroethene	ND	0.500						0	0	20	
Trichlorofluoromethane	ND	0.500						0	0	20	
Vinyl chloride	ND	0.500						0	0	20	
Xylenes, Total	ND	0.500						0	0	20	
Surr: 1,2-Dichlorobenzene-d4	8.65		10.00		86.5	70	130		0	20	
Surr: 4-Bromofluorobenzene	8.70		10.00		87.0	70	130		0	20	

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area respon
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RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits	W	Sample container temperature is out of limit as sp

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QC SUMMARY REPORT

WO#: 23030046
 09-Mar-23

Client: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP

BatchID: R159398

Sample ID: LCS	SampType: LCS	TestCode: VOC-MSTR_	Units: µg/L	Prep Date:	RunNo: 159398						
Client ID: LCSW	Batch ID: R159398	TestNo: SW8260	Analysis Date: 3/6/2023	SeqNo: 4237164							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Freon-113	17.4	5.00	20.00	0	87.1	80	143				
1,3-Butadiene	9.49	5.00	20.00	0	47.4	10	190				
1,4-Dioxane	173	25.0	200.0	0	86.5	10	190				QC-
2,2-Dichloropropane	14.3	5.00	20.00	0	71.6	24	171				QC-
2-Butanone	77.5	25.0	100.0	0	77.5	10	190				
2-Ethylhexyl acrylate	ND	5.00	20.00	0	0	70	130				SQC-
2-Nitropropane	ND	50.0	10.00	0	182	10	152				S
Acrylonitrile (2-propenenitrile)	101	30.0	120.0	0	84.0	10	190				
Allyl chloride	17.2	5.00	20.00	0	86.2	64	155				
Carbon disulfide	19.1	5.00	20.00	0	95.5	63	149				
Chloroprene	18.1	5.00	20.00	0	90.7	46	164				
Cyclohexanone	86.9	5.00	100.0	0	86.9	10	190				m
Ethyl Ether	17.2	10.0	20.00	0	86.1	36	165				
ETBE	17.5	5.00	20.00	0	87.4	70	130				
Ethyl acrylate	18.7	5.00	20.00	0	93.3	70	130				
Ethyl methacrylate	18.9	5.00	20.00	0	94.3	59	136				
Hexachloroethane	21.8	5.00	20.00	0	109	10	214				
Diisopropyl ether (DIPE)	19.6	5.00	20.00	0	97.8	10	177				
Methacrylonitrile	17.8	5.00	20.00	0	88.9	10	153				
Methyl acrylate	18.1	5.00	20.00	0	90.7	10	176				
Methyl methacrylate	18.7	5.00	20.00	0	93.6	50	130				
n-Butyl acrylate	ND	5.00	20.00	0	0	70	130				SQC-
Propionitrile	18.1	5.00	20.00	0	90.3	70	130				
trans-1,4-Dichloro-2-butene	16.5	5.00	20.00	0	82.7	10	196				QC-
Vinyl acetate	18.3	5.00	60.00	0	30.5	10	190				
1,2,3-Trimethylbenzene	19.4	5.00	20.00	0	96.9	3.54	177				

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded M Manual Integration used to determine area respon
 ND Not Detected PL Permit Limit R RPD outside accepted recovery limits
 RL Reporting Detection Limit S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as sp

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QC SUMMARY REPORT

WO#: 23030046
 09-Mar-23

Client: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP

BatchID: R159398

Sample ID: LCS	SampType: LCS	TestCode: VOC-MSTR_	Units: µg/L	Prep Date:	RunNo: 159398						
Client ID: LCSW	Batch ID: R159398	TestNo: SW8260		Analysis Date: 3/6/2023	SeqNo: 4237164						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	51.5		50.00		103	70	130				
Surr: Dibromofluoromethane	50.1		50.00		100	70	130				
Surr: Toluene-d8	50.0		50.00		100	70	130				

Sample ID: MB	SampType: MBLK	TestCode: VOC-MSTR_	Units: µg/L	Prep Date:	RunNo: 159398						
Client ID: PBW	Batch ID: R159398	TestNo: SW8260		Analysis Date: 3/6/2023	SeqNo: 4237167						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Freon-113	ND	5.00									
1,3-Butadiene	ND	5.00									
1,4-Dioxane	ND	25.0									QC-
2,2-Dichloropropane	ND	5.00									QC-
2-Butanone	ND	25.0									
2-Ethylhexyl acrylate	ND	5.00									QC-
2-Nitropropane	ND	50.0									
Acrylonitrile (2-propenenitrile)	ND	30.0									
Allyl chloride	ND	5.00									
Carbon disulfide	ND	5.00									
Chloroprene	ND	5.00									
Cyclohexanone	ND	5.00									
Ethyl Ether	ND	10.0									
ETBE	ND	5.00									
Ethyl acrylate	ND	5.00									
Ethyl methacrylate	ND	5.00									
Hexachloroethane	ND	5.00									

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area respon
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RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits	W	Sample container temperature is out of limit as sp

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WO#: 23030046
 09-Mar-23

Client: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP

BatchID: R159398

Sample ID: MB	SampType: MBLK	TestCode: VOC-MSTR_	Units: µg/L	Prep Date:	RunNo: 159398						
Client ID: PBW	Batch ID: R159398	TestNo: SW8260	Analysis Date: 3/6/2023	SeqNo: 4237167							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diisopropyl ether (DIPE)	ND	5.00									
Methacrylonitrile	ND	5.00									
Methyl acrylate	ND	5.00									
Methyl methacrylate	ND	5.00									
n-Butyl acrylate	ND	5.00									QC-
trans-1,4-Dichloro-2-butene	ND	5.00									QC-
Vinyl acetate	ND	5.00									
1,2,3-Trimethylbenzene	ND	5.00									
Surr: 4-Bromofluorobenzene	49.8		50.00		99.6	70	130				
Surr: Dibromofluoromethane	50.8		50.00		102	70	130				
Surr: Toluene-d8	48.6		50.00		97.2	70	130				

Sample ID: 23021886-001AMS	SampType: MS	TestCode: VOC-MSTR_	Units: µg/L	Prep Date:	RunNo: 159398						
Client ID: BatchQC	Batch ID: R159398	TestNo: SW8260	Analysis Date: 3/6/2023	SeqNo: 4237191							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Freon-113	21.5	5.00	20.00	0	107	10	236				
1,3-Butadiene	11.5	5.00	20.00	0	57.4	10	203				
1,4-Dioxane	145	25.0	200.0	0	72.7	10	181				QC-
2,2-Dichloropropane	15.5	5.00	20.00	0	77.4	23.5	171				QC-
2-Butanone	68.1	25.0	100.0	0	68.1	70	130				S
2-Ethylhexyl acrylate	ND	5.00	20.00	0	0	70	130				SQC-
2-Nitropropane	ND	50.0	10.00	0	163	10	152				S
Acrylonitrile (2-propenenitrile)	91.8	30.0	120.0	0	76.5	59	130				
Allyl chloride	19.9	5.00	20.00	0	99.3	-2.66	201				

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded M Manual Integration used to determine area respon
 ND Not Detected PL Permit Limit R RPD outside accepted recovery limits
 RL Reporting Detection Limit S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as sp

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QC SUMMARY REPORT

WO#: 23030046
 09-Mar-23

Client: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP

BatchID: R159398

Sample ID: 23021886-001AMS	SampType: MS	TestCode: VOC-MSTR_	Units: µg/L	Prep Date:	RunNo: 159398						
Client ID: BatchQC	Batch ID: R159398	TestNo: SW8260	Analysis Date: 3/6/2023	SeqNo: 4237191							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	22.6	5.00	20.00	0	113	63.2	147				
Chloroprene	21.3	5.00	20.00	0	106	46.2	164				
Cyclohexanone	90.9	5.00	100.0	0	90.9	10	193				
Ethyl Ether	15.9	10.0	20.00	0	79.7	36.1	165				
ETBE	17.4	5.00	20.00	0	86.9	70	130				
Ethyl acrylate	16.4	5.00	20.00	0	81.9	70	130				
Ethyl methacrylate	16.6	5.00	20.00	0	83.2	70	130				
Hexachloroethane	24.0	5.00	20.00	0	120	10	214				
Diisopropyl ether (DIPE)	19.7	5.00	20.00	0	98.6	10	177				
Methacrylonitrile	16.1	5.00	20.00	0	80.6	10	153				
Methyl acrylate	16.7	5.00	20.00	0	83.4	10	176				
Methyl methacrylate	15.9	5.00	20.00	0	79.7	49.7	130				
n-Butyl acrylate	ND	5.00	20.00	0	0	70	130				SQC-
Propionitrile	16.7	5.00	20.00	0	83.4	70	130				
trans-1,4-Dichloro-2-butene	15.0	5.00	20.00	0	75.1	10	196				QC-
Vinyl acetate	14.1	5.00	20.00	0	70.3	32.8	153				
1,2,3-Trimethylbenzene	20.2	5.00	20.00	0	101	70	130				
Surr: 4-Bromofluorobenzene	52.9		50.00		106	70	130				
Surr: Dibromofluoromethane	50.8		50.00		102	70	130				
Surr: Toluene-d8	49.2		50.00		98.4	46.1	154				

Sample ID: 23021886-001AMSD	SampType: MSD	TestCode: VOC-MSTR_	Units: µg/L	Prep Date:	RunNo: 159398						
Client ID: BatchQC	Batch ID: R159398	TestNo: SW8260	Analysis Date: 3/6/2023	SeqNo: 4237192							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded M Manual Integration used to determine area respon
 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 sp

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QC SUMMARY REPORT

WO#: 23030046
 09-Mar-23

Client: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP

BatchID: R159398

Sample ID: 23021886-001AMSD	SampType: MSD	TestCode: VOC-MSTR_	Units: µg/L	Prep Date:	RunNo: 159398						
Client ID: BatchQC	Batch ID: R159398	TestNo: SW8260	Analysis Date: 3/6/2023	SeqNo: 4237192							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Freon-113	22.2	5.00	20.00	0	111	10	236	21.46	3.32	20	
1,3-Butadiene	12.3	5.00	20.00	0	61.7	10	203	11.48	7.17	20	
1,4-Dioxane	156	25.0	200.0	0	78.0	10	181	145.4	7.01	20	QC-
2,2-Dichloropropane	15.5	5.00	20.00	0	77.3	23.5	171	15.48	0.200	20	QC-
2-Butanone	73.6	25.0	100.0	0	73.6	70	130	68.05	7.88	20	
2-Ethylhexyl acrylate	ND	5.00	20.00	0	0	70	130	0	0	0	SQC-
2-Nitropropane	ND	50.0	10.00	0	182	10	152	0	0	20	S
Acrylonitrile (2-propenenitrile)	98.0	30.0	120.0	0	81.7	59	130	91.82	6.54	20	
Allyl chloride	20.3	5.00	20.00	0	102	-2.66	201	19.86	2.26	20	
Carbon disulfide	23.5	5.00	20.00	0	117	63.2	147	22.57	3.88	20	
Chloroprene	22.6	5.00	20.00	0	113	46.2	164	21.25	6.21	20	
Cyclohexanone	103	5.00	100.0	0	103	10	193	90.93	12.0	20	
Ethyl Ether	15.8	10.0	20.00	0	79.1	36.1	165	15.94	0.755	20	
ETBE	18.4	5.00	20.00	0	91.9	70	130	17.38	5.57	0	
Ethyl acrylate	17.6	5.00	20.00	0	88.2	70	130	16.38	7.40	0	
Ethyl methacrylate	17.8	5.00	20.00	0	89.1	70	130	16.64	6.84	20	
Hexachloroethane	24.8	5.00	20.00	0	124	10	214	23.96	3.35	20	
Diisopropyl ether (DIPE)	20.4	5.00	20.00	0	102	10	177	19.72	3.58	20	
Methacrylonitrile	17.6	5.00	20.00	0	87.9	10	153	16.12	8.69	20	
Methyl acrylate	17.5	5.00	20.00	0	87.5	10	176	16.69	4.82	20	
Methyl methacrylate	17.4	5.00	20.00	0	86.9	49.7	130	15.93	8.72	20	
n-Butyl acrylate	ND	5.00	20.00	0	0	70	130	0	0	0	SQC-
Propionitrile	18.0	5.00	20.00	0	90.2	70	130	16.69	7.72	20	
trans-1,4-Dichloro-2-butene	15.8	5.00	20.00	0	79.2	10	196	15.03	5.19	20	QC-
Vinyl acetate	15.0	5.00	20.00	0	75.2	32.8	153	14.06	6.80	20	
1,2,3-Trimethylbenzene	21.3	5.00	20.00	0	107	70	130	20.23	5.23	0	

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded M Manual Integration used to determine area respon
 ND Not Detected PL Permit Limit R RPD outside accepted recovery limits
 RL Reporting Detection Limit S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as sp

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>

QC SUMMARY REPORT

WO#: 23030046
09-Mar-23

Client: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP

BatchID: R159398

Sample ID: 23021886-001AMSD	SampType: MSD	TestCode: VOC-MSTR_	Units: µg/L	Prep Date:	RunNo: 159398						
Client ID: BatchQC	Batch ID: R159398	TestNo: SW8260	Analysis Date: 3/6/2023	SeqNo: 4237192							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	51.9		50.00		104	70	130		0	20	
Surr: Dibromofluoromethane	50.8		50.00		102	70	130		0	20	
Surr: Toluene-d8	50.1		50.00		100	46.1	154		0	20	

Qualifiers:	E Value above quantitation range	H Holding times for preparation or analysis exceeded	M Manual Integration used to determine area respon
	ND Not Detected	PL Permit Limit	R RPD outside accepted recovery limits
	RL Reporting Detection Limit	S Spike Recovery outside accepted recovery limits	W Sample container temperature is out of limit as sp

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QC SUMMARY REPORT

WO#: 23030046
 09-Mar-23

Client: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP

BatchID: R159411

Sample ID: LCS	SampType: LCS	TestCode: VOC_DW(524	Units: µg/L	Prep Date:	RunNo: 159411						
Client ID: LCSW	Batch ID: R159411	TestNo: E524.2	Analysis Date: 3/6/2023	SeqNo: 4237476							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	4.52	0.500	5.000	0	90.4	70	130				
1,1,1-Trichloroethane	5.07	0.500	5.000	0	101	70	130				
1,1,2,2-Tetrachloroethane	4.90	0.500	5.000	0	98.0	70	130				
1,1,2-Trichloroethane	4.92	0.500	5.000	0	98.3	70	130				
1,1-Dichloroethane	4.99	0.500	5.000	0	99.8	70	130				
1,1-Dichloroethene	5.04	0.500	5.000	0	101	70	130				
1,1-Dichloropropene	5.56	0.500	5.000	0	111	70	130				
1,2,3-Trichlorobenzene	4.52	0.500	5.000	0	90.3	70	130				
1,2,3-Trichloropropane	4.97	0.500	5.000	0	99.5	70	130				
1,2,4-Trichlorobenzene	4.57	0.500	5.000	0	91.5	70	130				
1,2,4-Trimethylbenzene	4.66	0.500	5.000	0	93.2	70	130				
1,2-Dichlorobenzene	4.79	0.500	5.000	0	95.8	70	130				
1,2-Dichloroethane	5.10	0.500	5.000	0	102	70	130				
1,2-Dichloropropane	4.84	0.500	5.000	0	96.7	70	130				
1,3,5-Trimethylbenzene	4.81	0.500	5.000	0	96.2	70	130				
1,3-Dichlorobenzene	4.73	0.500	5.000	0	94.6	70	130				
1,3-Dichloropropane	5.07	0.500	5.000	0	101	70	130				
1,4-Dichlorobenzene	5.00	0.500	5.000	0	100	70	130				
2-Chlorotoluene	4.70	0.500	5.000	0	94.1	70	130				
4-Chlorotoluene	4.71	0.500	5.000	0	94.2	70	130				
Benzene	4.90	0.500	5.000	0	98.0	70	130				
Bromobenzene	4.74	0.500	5.000	0	94.7	70	130				
Bromodichloromethane	4.61	0.500	5.000	0	92.3	70	130				
Bromoform	4.14	0.500	5.000	0	82.8	70	130				
Bromomethane	4.53	1.00	5.000	0	90.5	70	130				
Carbon tetrachloride	4.86	0.500	5.000	0	97.1	70	130				

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded M Manual Integration used to determine area respon
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QC SUMMARY REPORT

WO#: 23030046
 09-Mar-23

Client: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP

BatchID: R159411

Sample ID: LCS	SampType: LCS	TestCode: VOC_DW(524	Units: µg/L	Prep Date:	RunNo: 159411						
Client ID: LCSW	Batch ID: R159411	TestNo: E524.2	Analysis Date: 3/6/2023	SeqNo: 4237476							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	4.71	0.500	5.000	0	94.2	70	130				
Chlorobromomethane	4.72	0.500	5.000	0	94.4	70	130				
Chlorodibromomethane	4.52	0.500	5.000	0	90.4	70	130				
Chloroethane	4.49	0.500	5.000	0	89.8	70	130				
Chloroform	4.60	0.500	5.000	0	92.1	70	130				
Chloromethane	4.36	0.500	5.000	0	87.1	70	130				
cis-1,2-Dichloroethene	4.63	0.500	5.000	0	92.5	70	130				
cis-1,3-Dichloropropene	4.32	0.500	5.000	0	86.3	70	130				
Dibromomethane	4.93	0.500	5.000	0	98.6	70	130				
Dichlorodifluoromethane	5.41	0.500	5.000	0	108	70	130				
Ethylbenzene	4.65	0.500	5.000	0	92.9	70	130				
Hexachloro-1,3-butadiene	4.57	0.500	5.000	0	91.4	70	130				
Isopropylbenzene	4.57	0.500	5.000	0	91.5	70	130				
m,p-Xylene	9.60	0.500	10.00	0	96.0	70	130				
Methylene chloride	5.53	0.500	5.000	0	111	70	130				
MTBE	4.81	0.500	5.000	0	96.2	70	130				
n-Butylbenzene	4.69	0.500	5.000	0	93.7	70	130				
n-Propylbenzene	4.71	0.500	5.000	0	94.2	70	130				
o-Xylene	4.71	0.500	5.000	0	94.3	70	130				
p-Isopropyltoluene	4.51	0.500	5.000	0	90.1	70	130				
sec-Butylbenzene	4.69	0.500	5.000	0	93.8	70	130				
Styrene	4.62	0.500	5.000	0	92.4	70	130				
tert-Butylbenzene	4.68	0.500	5.000	0	93.5	70	130				
Tetrachloroethene	4.50	0.500	5.000	0	89.9	70	130				
Toluene	4.68	0.500	5.000	0	93.6	70	130				
trans-1,2-Dichloroethene	4.63	0.500	5.000	0	92.6	70	130				

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded M Manual Integration used to determine area respon
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 RL Reporting Detection Limit S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as sp

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QC SUMMARY REPORT

WO#: 23030046
 09-Mar-23

Client: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP

BatchID: R159411

Sample ID: LCS	SampType: LCS	TestCode: VOC_DW(524) Units: µg/L	Prep Date:	RunNo: 159411							
Client ID: LCSW	Batch ID: R159411	TestNo: E524.2	Analysis Date: 3/6/2023	SeqNo: 4237476							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,3-Dichloropropene	4.35	0.500	5.000	0	87.0	70	130				
Trichloroethene	4.79	0.500	5.000	0	95.8	70	130				
Trichlorofluoromethane	5.31	0.500	5.000	0	106	70	130				
Vinyl chloride	4.98	0.500	5.000	0	99.5	70	130				
Xylenes, Total	14.3	0.500	15.00	0	95.4	70	130				
Surr: 1,2-Dichlorobenzene-d4	9.94		10.00		99.4	70	130				
Surr: 4-Bromofluorobenzene	10.2		10.00		102	70	130				

Sample ID: MB	SampType: MBLK	TestCode: VOC_DW(524) Units: µg/L	Prep Date:	RunNo: 159411							
Client ID: PBW	Batch ID: R159411	TestNo: E524.2	Analysis Date: 3/6/2023	SeqNo: 4237477							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	0.500									
1,1,1-Trichloroethane	ND	0.500									
1,1,2,2-Tetrachloroethane	ND	0.500									
1,1,2-Trichloroethane	ND	0.500									
1,1-Dichloroethane	ND	0.500									
1,1-Dichloroethene	ND	0.500									
1,1-Dichloropropene	ND	0.500									
1,2,3-Trichlorobenzene	ND	0.500									
1,2,3-Trichloropropane	ND	0.500									
1,2,4-Trichlorobenzene	ND	0.500									
1,2,4-Trimethylbenzene	ND	0.500									
1,2-Dichlorobenzene	ND	0.500									
1,2-Dichloroethane	ND	0.500									

Qualifiers:

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

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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#: 23030046
 09-Mar-23

Client: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP

BatchID: R159411

Sample ID: MB	SampType: MBLK	TestCode: VOC_DW(524) Units: µg/L	Prep Date:	RunNo: 159411							
Client ID: PBW	Batch ID: R159411	TestNo: E524.2	Analysis Date: 3/6/2023	SeqNo: 4237477							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloropropane	ND	0.500									
1,3,5-Trimethylbenzene	ND	0.500									
1,3-Dichlorobenzene	ND	0.500									
1,3-Dichloropropane	ND	0.500									
1,3-Dichloropropene, Total	ND	1.00									
1,4-Dichlorobenzene	ND	0.500									
2-Chlorotoluene	ND	0.500									
4-Chlorotoluene	ND	0.500									
Benzene	ND	0.500									
Bromobenzene	ND	0.500									
Bromodichloromethane	ND	0.500									
Bromoform	ND	0.500									
Bromomethane	ND	1.00									
Carbon tetrachloride	ND	0.500									
Chlorobenzene	ND	0.500									
Chlorobromomethane	ND	0.500									
Chlorodibromomethane	ND	0.500									
Chloroethane	ND	0.500									
Chloroform	ND	0.500									
Chloromethane	ND	0.500									
cis-1,2-Dichloroethene	ND	0.500									
cis-1,3-Dichloropropene	ND	0.500									
Dibromomethane	ND	0.500									
Dichlorodifluoromethane	ND	0.500									
Ethylbenzene	ND	0.500									
Hexachloro-1,3-butadiene	ND	0.500									

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area respon
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 Cuyahoga Falls, Ohio 44223
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QC SUMMARY REPORT

WO#: 23030046
 09-Mar-23

Client: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP

BatchID: R159411

Sample ID: MB	SampType: MBLK	TestCode: VOC_DW(524	Units: µg/L	Prep Date:	RunNo: 159411						
Client ID: PBW	Batch ID: R159411	TestNo: E524.2		Analysis Date: 3/6/2023	SeqNo: 4237477						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Isopropylbenzene	ND	0.500									
m,p-Xylene	ND	0.500									
Methylene chloride	ND	0.500									
MTBE	ND	0.500									
n-Butylbenzene	ND	0.500									
n-Propylbenzene	ND	0.500									
o-Xylene	ND	0.500									
p-Isopropyltoluene	ND	0.500									
sec-Butylbenzene	ND	0.500									
Styrene	ND	0.500									
tert-Butylbenzene	ND	0.500									
Tetrachloroethene	ND	0.500									
Toluene	ND	0.500									
trans-1,2-Dichloroethene	ND	0.500									
trans-1,3-Dichloropropene	ND	0.500									
Trichloroethene	ND	0.500									
Trichlorofluoromethane	ND	0.500									
Vinyl chloride	ND	0.500									
Xylenes, Total	ND	0.500									
Surr: 1,2-Dichlorobenzene-d4	8.63		10.00		86.3	70	130				
Surr: 4-Bromofluorobenzene	8.63		10.00		86.3	70	130				

Qualifiers:	E Value above quantitation range	H Holding times for preparation or analysis exceeded	M Manual Integration used to determine area respon
	ND Not Detected	PL Permit Limit	R RPD outside accepted recovery limits
	RL Reporting Detection Limit	S Spike Recovery outside accepted recovery limits	W Sample container temperature is out of limit as sp

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QC SUMMARY REPORT

WO#: 23030046
 09-Mar-23

Client: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP

BatchID: R159411

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	0.500						0	0	20	
1,1,1-Trichloroethane	ND	0.500						0	0	20	
1,1,2,2-Tetrachloroethane	ND	0.500						0	0	20	
1,1,2-Trichloroethane	ND	0.500						0	0	20	
1,1-Dichloroethane	ND	0.500						0	0	20	
1,1-Dichloroethene	ND	0.500						0	0	20	
1,1-Dichloropropene	ND	0.500						0	0	20	
1,2,3-Trichlorobenzene	ND	0.500						0	0	20	
1,2,3-Trichloropropane	ND	0.500						0	0	20	
1,2,4-Trichlorobenzene	ND	0.500						0	0	20	
1,2,4-Trimethylbenzene	ND	0.500						0	0	20	
1,2-Dichlorobenzene	ND	0.500						0	0	20	
1,2-Dichloroethane	ND	0.500						0	0	20	
1,2-Dichloropropane	ND	0.500						0	0	20	
1,3,5-Trimethylbenzene	ND	0.500						0	0	20	
1,3-Dichlorobenzene	ND	0.500						0	0	20	
1,3-Dichloropropane	ND	0.500						0	0	20	
1,3-Dichloropropene, Total	ND	1.00						0	0	0	
1,4-Dichlorobenzene	ND	0.500						0	0	20	
2-Chlorotoluene	ND	0.500						0	0	20	
4-Chlorotoluene	ND	0.500						0	0	20	
Benzene	ND	0.500						0	0	20	
Bromobenzene	ND	0.500						0	0	20	
Bromodichloromethane	0.971	0.500						0.9270	4.64	20	
Bromoform	ND	0.500						0	0	20	
Bromomethane	ND	1.00						0	0	20	

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded M Manual Integration used to determine area respon
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 RL Reporting Detection Limit S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as sp

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QC SUMMARY REPORT

WO#: 23030046
 09-Mar-23

Client: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP

BatchID: R159411

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon tetrachloride	ND	0.500						0	0	20	
Chlorobenzene	ND	0.500						0	0	20	
Chlorobromomethane	ND	0.500						0	0	20	
Chlorodibromomethane	0.656	0.500						0.7190	9.16	20	
Chloroethane	ND	0.500						0	0	20	
Chloroform	1.05	0.500						1.045	0.0956	20	
Chloromethane	ND	0.500						0	0	20	
cis-1,2-Dichloroethene	ND	0.500						0	0	20	
cis-1,3-Dichloropropene	ND	0.500						0	0	20	
Dibromomethane	ND	0.500						0	0	20	
Dichlorodifluoromethane	ND	0.500						0	0	20	
Ethylbenzene	ND	0.500						0	0	20	
Hexachloro-1,3-butadiene	ND	0.500						0	0	20	
Isopropylbenzene	ND	0.500						0	0	20	
m,p-Xylene	ND	0.500						0	0	20	
Methylene chloride	ND	0.500						0	0	20	
MTBE	ND	0.500						0	0	20	
n-Butylbenzene	ND	0.500						0	0	20	
n-Propylbenzene	ND	0.500						0	0	20	
o-Xylene	ND	0.500						0	0	20	
p-Isopropyltoluene	ND	0.500						0	0	20	
sec-Butylbenzene	ND	0.500						0	0	20	
Styrene	ND	0.500						0	0	20	
tert-Butylbenzene	ND	0.500						0	0	20	
Tetrachloroethene	ND	0.500						0	0	20	
Toluene	ND	0.500						0	0	20	

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area respon
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QC SUMMARY REPORT

WO#: 23030046
 09-Mar-23

Client: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP

BatchID: R159411

Sample ID: 23030046-006ADUP	SampType: DUP	TestCode: VOC_DW(524)	Units: µg/L	Prep Date:	RunNo: 159411						
Client ID: PW-207 Entry Point	Batch ID: R159411	TestNo: E524.2		Analysis Date: 3/7/2023	SeqNo: 4237479						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,2-Dichloroethene	ND	0.500						0	0	20	
trans-1,3-Dichloropropene	ND	0.500						0	0	20	
Trichloroethene	ND	0.500						0	0	20	
Trichlorofluoromethane	ND	0.500						0	0	20	
Vinyl chloride	ND	0.500						0	0	20	
Xylenes, Total	ND	0.500						0	0	20	
Surr: 1,2-Dichlorobenzene-d4	8.64		10.00		86.4	70	130		0	20	
Surr: 4-Bromofluorobenzene	8.16		10.00		81.6	70	130		0	20	

Qualifiers:

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

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>

QC SUMMARY REPORT

WO#: 23030046
 09-Mar-23

Client: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP

BatchID: R159476

Sample ID: LCS	SampType: LCS	TestCode: VOC-MSTR_	Units: µg/L	Prep Date:	RunNo: 159476						
Client ID: LCSW	Batch ID: R159476	TestNo: SW8260		Analysis Date: 3/8/2023	SeqNo: 4239433						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Epichlorohydrin	20.3	20.0	20.00	0	101	10	181				
Surr: 4-Bromofluorobenzene	49.8		50.00		99.6	70	130				
Surr: Dibromofluoromethane	47.7		50.00		95.5	70	130				
Surr: Toluene-d8	49.8		50.00		99.6	70	130				

Sample ID: MB	SampType: MBLK	TestCode: VOC-MSTR_	Units: µg/L	Prep Date:	RunNo: 159476						
Client ID: PBW	Batch ID: R159476	TestNo: SW8260		Analysis Date: 3/8/2023	SeqNo: 4239436						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Epichlorohydrin	ND	20.0									
Surr: 4-Bromofluorobenzene	50.8		50.00		102	70	130				
Surr: Dibromofluoromethane	50.0		50.00		99.9	70	130				
Surr: Toluene-d8	50.2		50.00		100	70	130				

Sample ID: 23030261-011AMS	SampType: MS	TestCode: VOC-MSTR_	Units: µg/L	Prep Date:	RunNo: 159476						
Client ID: BatchQC	Batch ID: R159476	TestNo: SW8260		Analysis Date: 3/8/2023	SeqNo: 4239461						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Epichlorohydrin	ND	100	100.0	0	95.2	10	181				
Surr: 4-Bromofluorobenzene	259		250.0		104	70	130				
Surr: Dibromofluoromethane	244		250.0		97.7	70	130				
Surr: Toluene-d8	253		250.0		101	46.1	154				

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded M Manual Integration used to determine area respon
 ND Not Detected PL Permit Limit R RPD outside accepted recovery limits
 RL Reporting Detection Limit S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as sp

Original



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

QC SUMMARY REPORT

WO#: **23030046**
09-Mar-23

Client: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP

BatchID: R159476

Sample ID: 23030261-011AMSD	SampType: MSD	TestCode: VOC-MSTR_	Units: µg/L	Prep Date:	RunNo: 159476						
Client ID: BatchQC	Batch ID: R159476	TestNo: SW8260	Analysis Date: 3/8/2023	SeqNo: 4239465							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Epichlorohydrin	ND	100	100.0	0	99.4	10	181	0	0	20	
Surr: 4-Bromofluorobenzene	259		250.0		104	70	130		0	20	
Surr: Dibromofluoromethane	247		250.0		98.9	70	130		0	20	
Surr: Toluene-d8	244		250.0		97.6	46.1	154		0	20	

Qualifiers:

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

Original

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

Qualifiers

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

Acronyms

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.



Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
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DATES REPORT

WO#: **23030046**
09-Mar-23

Client: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
23030046-001A	PW-201 Well 008	2/28/2023 9:46:00 AM	Drinking Water	VOC-GC/MS (524.2)			3/5/2023 10:39:00 PM
23030046-001B				EDB, DBCP, 123TCP by GC (EPA 50-		3/6/2023 10:50:00 AM	3/6/2023 5:29:00 PM
23030046-001C				VOC by GC/MS (8260D)			3/5/2023 1:02:00 AM
				VOC Tentatively Identified Compound (TICs)			3/5/2023 1:02:00 AM
23030046-001D				SVOC by 8270E		3/5/2023 11:45:00 AM	3/6/2023 1:51:00 PM
				Synthetic Organic Compounds by GC/ (EPA 525.3)		3/6/2023 12:00:00 PM	3/8/2023 12:14:00 AM
23030046-002A	PW-202 Rhoades Well	2/28/2023 10:35:00 AM		VOC-GC/MS (524.2)			3/5/2023 11:08:00 PM
23030046-002B				EDB, DBCP, 123TCP by GC (EPA 50-		3/6/2023 10:50:00 AM	3/6/2023 5:51:00 PM
23030046-002C				VOC by GC/MS (8260D)			3/5/2023 1:25:00 AM
				VOC Tentatively Identified Compound (TICs)			3/5/2023 1:25:00 AM
23030046-002D				SVOC by 8270E		3/5/2023 11:45:00 AM	3/6/2023 2:23:00 PM
				Synthetic Organic Compounds by GC/ (EPA 525.3)		3/6/2023 12:00:00 PM	3/8/2023 1:00:00 AM
23030046-003A	PW-203 Nulf Well	2/28/2023 11:25:00 AM		VOC-GC/MS (524.2)			3/6/2023 12:05:00 AM
23030046-003B				EDB, DBCP, 123TCP by GC (EPA 50-		3/6/2023 10:50:00 AM	3/6/2023 6:11:00 PM
23030046-003C				VOC by GC/MS (8260D)			3/5/2023 1:48:00 AM
				VOC Tentatively Identified Compound (TICs)			3/5/2023 1:48:00 AM
23030046-003D				SVOC by 8270E		3/5/2023 11:45:00 AM	3/6/2023 2:54:00 PM
				Synthetic Organic Compounds by GC/ (EPA 525.3)		3/6/2023 12:00:00 PM	3/8/2023 1:47:00 AM
23030046-004A	PW-204 Harding Well	2/28/2023 12:04:00 PM		VOC-GC/MS (524.2)			3/6/2023 12:34:00 AM
23030046-004B				EDB, DBCP, 123TCP by GC (EPA 50-		3/6/2023 10:50:00 AM	3/6/2023 6:32:00 PM
23030046-004C				VOC by GC/MS (8260D)			3/5/2023 2:12:00 AM

Original



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Cuyahoga Falls, Ohio 44223
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Website: <http://www.settek.com>

DATES REPORT

WO#: **23030046**
09-Mar-23

Client: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
23030046-004C	PW-204 Harding Well	2/28/2023 12:04:00 PM	Drinking Water	VOC Tentatively Identified Compound (TICs)			3/5/2023 2:12:00 AM
23030046-004D				SVOC by 8270E		3/5/2023 11:45:00 AM	3/6/2023 3:26:00 PM
				Synthetic Organic Compounds by GC/MS (EPA 525.3)		3/6/2023 12:00:00 PM	3/8/2023 2:33:00 AM
23030046-005A	PW-205 Zuch Well	2/28/2023 12:56:00 PM		VOC-GC/MS (524.2)			3/6/2023 1:03:00 AM
23030046-005B				EDB, DBCP, 123TCP by GC (EPA 504)		3/6/2023 10:50:00 AM	3/6/2023 6:53:00 PM
23030046-005C				VOC by GC/MS (8260D)			3/5/2023 2:35:00 AM
				VOC Tentatively Identified Compound (TICs)			3/5/2023 2:35:00 AM
23030046-005D				SVOC by 8270E		3/5/2023 11:45:00 AM	3/6/2023 3:57:00 PM
				Synthetic Organic Compounds by GC/MS (EPA 525.3)		3/6/2023 12:00:00 PM	3/8/2023 5:38:00 AM
23030046-006A	PW-207 Entry Point	2/28/2023 2:10:00 PM		VOC-GC/MS (524.2)			3/6/2023 11:49:00 PM
				VOC-GC/MS (524.2)			3/6/2023 1:31:00 AM
23030046-006B				EDB, DBCP, 123TCP by GC (EPA 504)		3/6/2023 10:50:00 AM	3/6/2023 7:14:00 PM
23030046-006C				VOC by GC/MS (8260D)			3/5/2023 2:58:00 AM
				VOC Tentatively Identified Compound (TICs)			3/5/2023 2:58:00 AM
23030046-006D				SVOC by 8270E		3/5/2023 11:45:00 AM	3/8/2023 5:54:00 PM
				SVOC by 8270E		3/5/2023 11:45:00 AM	3/6/2023 4:29:00 PM
				Synthetic Organic Compounds by GC/MS (EPA 525.3)		3/6/2023 12:00:00 PM	3/8/2023 6:25:00 AM
23030046-007A	PW-201FB Field Blank	2/28/2023 9:46:00 AM		VOC-GC/MS (524.2)			3/7/2023 3:10:00 AM
				VOC-GC/MS (524.2)			3/6/2023 2:00:00 AM
23030046-007B				EDB, DBCP, 123TCP by GC (EPA 504)		3/6/2023 10:50:00 AM	3/6/2023 7:34:00 PM
23030046-007C				VOC by GC/MS (8260D)			3/5/2023 3:22:00 AM

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3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
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DATES REPORT

WO#: **23030046**
09-Mar-23

Client: OhioEPA-DDAGW
Project: Ohio EPA PWS-EP

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
23030046-007C	PW-201FB Field Blank	2/28/2023 9:46:00 AM	Drinking Water	VOC Tentatively Identified Compound (TICs)			3/5/2023 3:22:00 AM
23030046-007D				SVOC by 8270E		3/5/2023 11:45:00 AM	3/6/2023 5:00:00 PM
				Synthetic Organic Compounds by GC/MS (EPA 525.3)		3/6/2023 12:00:00 PM	3/8/2023 7:11:00 AM
23030046-008A	PW-207Dupe Duplicate	2/28/2023 2:10:00 PM		VOC-GC/MS (524.2)			3/7/2023 3:39:00 AM
23030046-008B				EDB, DBCP, 123TCP by GC (EPA 504)		3/6/2023 10:50:00 AM	3/6/2023 7:55:00 PM
23030046-008C				VOC by GC/MS (8260D)			3/5/2023 3:45:00 AM
				VOC Tentatively Identified Compound (TICs)			3/5/2023 3:45:00 AM
23030046-008D				SVOC by 8270E		3/5/2023 11:45:00 AM	3/8/2023 6:25:00 PM
				SVOC by 8270E		3/5/2023 11:45:00 AM	3/6/2023 5:32:00 PM
				Synthetic Organic Compounds by GC/MS (EPA 525.3)		3/6/2023 12:00:00 PM	3/8/2023 7:58:00 AM
23030046-009A	Trip Blank 1			VOC by GC/MS (8260D)			3/5/2023 4:09:00 AM
				VOC Tentatively Identified Compound (TICs)			3/5/2023 4:09:00 AM
23030046-009B				VOC-GC/MS (524.2)			3/5/2023 6:19:00 PM
23030046-009C				EDB, DBCP, 123TCP by GC (EPA 504)		3/6/2023 10:50:00 AM	3/6/2023 8:16:00 PM
23030046-010A	Trip Blank 2			VOC by GC/MS (8260D)			3/5/2023 4:32:00 AM
				VOC Tentatively Identified Compound (TICs)			3/5/2023 4:32:00 AM
23030046-010B				VOC-GC/MS (524.2)			3/5/2023 9:12:00 PM
23030046-010C				EDB, DBCP, 123TCP by GC (EPA 504)		3/6/2023 10:50:00 AM	3/6/2023 8:36:00 PM
23030046-011A	Trip Blank 3			VOC by GC/MS (8260D)			3/6/2023 2:19:00 AM
				VOC by GC/MS (8260D)			3/8/2023 12:55:00 PM

Original



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

DATES REPORT

WO#: **23030046**
09-Mar-23

Client: OhioEPA-DDAGW

Project: Ohio EPA PWS-EP

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
23030046-011A	Trip Blank 3		Drinking Water	VOC Tentatively Identified Compound (TICs)			3/6/2023 2:19:00 AM
23030046-011B				VOC-GC/MS (524.2)			3/5/2023 9:41:00 PM
23030046-011C				EDB, DBCP, 123TCP by GC (EPA 50-		3/6/2023 10:50:00 AM	3/6/2023 8:57:00 PM
23030046-012A	Trip Blank 4			VOC by GC/MS (8260D)			3/6/2023 2:43:00 AM
				VOC by GC/MS (8260D)			3/8/2023 1:19:00 PM
				VOC Tentatively Identified Compound (TICs)			3/6/2023 2:43:00 AM
23030046-012B				VOC-GC/MS (524.2)			3/5/2023 10:10:00 PM
23030046-012C				EDB, DBCP, 123TCP by GC (EPA 50-		3/6/2023 10:50:00 AM	3/6/2023 9:18:00 PM

Original

Analysis Request / Chain of Custody



Refer to Terms and Conditions at www.settek.com

SET NO: **23030046**
WO NO: **23030046**

#	Sample Point ID	Sample Identification	Date Collected	Time Collected	Grab Sample	Composite Sample	Matrix: S = Solid, SL = Sludge, DW = Drinking Water, NPW = Non-Portable Water, DV = 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		(S/R)
										For DW Only: Special Compliance or Routine		
1	PW-201	WELL 008	2/28/23	9:46	X		DW	8	12	X	524.2	
2	PW-202	RHOADES WELL		10:35						X	525.2	X
3	PW-203	NOLF WELL		11:25						X	826.00	X
4	PW-204	HARDING WELL		12:04						X	504.1	X
5	PW-205	ZUCH WELL		12:58						X	827.0	X
6	PW-207	ENTRY POINT		7:10								
7	PW-201FB	FIELD BLANC		9:46								
8	PW-207DUB	DUBUCATE		14:10								
Relinquished by:		Date	Time	Received by:		Date	Time	Notes / Comments: 504.1-NH2SO3, 524 HCL, 8260-HCL, 525-ASCOBIC AND EDTA & BRASSUM CREATE *INVOICE: VICKIE STEVENS - PERSE@EPA.OHIO.GOV				
Zach Toney		3/1/2023	8:45am	[Signature]		3/1/23	8:45	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				
Zach Toney		3/1/2023	11:45am	[Signature]				Received Temp: 1.2/40.3/0.3/0.3 Ice Present? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> MELTED				
Received at Summit by:		Date	Time	Carrier		Rush Requested: 7 Day(s)		Must be approved by Lab Manager				
[Signature]		3/1/23	1145	CLIENT				0.470.3 0.270.3 - 0.5 2.140.3 0.470.3 - 0.7				

Client Name: **OHIO EPA - DDAGW**
 Client Street Address: **OHIO EPA PWS - EP**
 City: **481 BACON**
 State: **OH** Zip: **43087**
 Client Phone: **330-963-1150**
 Report To: **JAMES FISHER**
 Quote Number: **JAMES FISHER**
 PWS ID: **JAMES FISHER**
 Facility ID: **JAMES FISHER**
 Reporting/Accreditation Requirements: Ohio EPA Pb, Cu Ohio VAP Drinking Water Compliance Other Compliance (List State/Program):

Print: **[Signature]**
 Sign: **[Signature]**
 For DW only, results to be reported to state by lab? If yes, Y N
 Lab fee may apply: Y N



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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: **OEPA-OH-44087** Work Order Number: **23030046** RcptNo: **1**

Logged by:	Anthony W. Britton	3/1/2023 11:45:00 AM	
Completed By:	Anthony W. Britton	3/1/2023 12:26:06 PM	
Reviewed By:	Holly Florea	3/2/2023 7:37:06 AM	

Chain of Custody

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

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. Seal Date: Signed By:
 5. Was an attempt made to cool the samples? Yes No NA
 6. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
 7. Sample(s) in proper container(s)? Yes No
 8. Sufficient sample volume for indicated test(s)? Yes No
 9. Are samples (except VOA and ONG) properly preserved? Yes No
 10. Was preservative added to bottles? Yes No NA
 11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes No No VOA Vials
 12. Were any sample containers received broken? Yes No
 13. Does paperwork match bottle labels? Yes No
 (Note discrepancies on chain of custody)
 14. Are matrices correctly identified on Chain of Custody? Yes No
 15. Is it clear what analyses were requested? Yes No
 16. Were all holding times able to be met? Yes No
 (If no, notify customer for authorization.)

Special Handling (if applicable)

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

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

18. Additional remarks:

Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.5	Good	Not Present			
2	0.7	Good	Not Present			
3	1.2	Good	Not Present			



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Sample Log-In Check List

Client Name: **OEPA-OH-44087**

Work Order Number: **23030046**

RcptNo: 1

4	2.4	Good	Not Present			
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