



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 22, 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.: 23030988

Summit Environmental Technologies, Inc. received 12 sample(s) on 3/14/2023 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#: 23030988  
Date: 3/22/2023

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

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### WorkOrder Narrative:

This report in its entirety consists of the following documents: Cover Letter, Case Narrative, Analytical Results, QC Summary Report, Applicable Accreditation Information, Chain-of-Custody, Cooler Receipt Form, and other applicable forms as necessary. All documents contain the Summit Environmental Technologies, Inc., Work Order Number assigned to this report.

Summit Environmental Technologies, Inc., holds the accreditations/certifications listed at the bottom of the cover letter that may or may not pertain to this report. Please refer to the "Accreditation Program Analytes Report" for accredited analytes list.

The information contained in this analytical report is the sole property of Summit Environmental Technologies, Inc. and that of the customer. It cannot be reproduced in any form without the consent of Summit Environmental Technologies, Inc. or the customer for which this report was issued. The results contained in this report are only representative of the samples received. Conditions can vary at different times and at different sampling conditions. Summit Environmental Technologies, Inc. is not responsible for use or interpretation of the data included herein.

All results for Solid Samples are reported on an "as received" or "wet weight" basis unless indicated as "dry weight" using the "-dry" designation on the reporting units.

This report is believed to meet all of the requirements of the accrediting agency, where applicable. Any comments or problems with the analytical events associated with this report are noted below.

### Analytical Sequence Sample Notes:

23030988-001 through 005, 007 SVOC-MSTR\_NPW(8270E): CCV and LCSD-63549 exhibited high recoveries for several analytes. Sample is ND for these analytes.

23030988-006 and 008 SVOC-MSTR\_NPW(8270E): CCV and LCSD-63549 exhibited high recoveries for several analytes. Sample is ND for these analytes. Sample exhibited low surrogate recovery for Phenol-d6, and was confirmed by reanalysis. Low surrogate recoveries with both analyses indicate matrix interference. All other surrogates demonstrate control.

23030988-008D SVOC-MSTR\_NPW(8270E): CCV and LCSD-63549 exhibited high recoveries for several analytes. Sample is ND for these analytes. Sample exhibited low surrogate recovery for Phenol-

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Original



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## Case Narrative

WO#: 23030988  
Date: 3/22/2023

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**CLIENT:** OhioEPA-DDAGW

**Project:** Ohio EPA PWS-EP

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d6, and was confirmed by reanalysis. Low surrogate recoveries with both analyses indicate matrix interference. All other surrogates demonstrate control.

23030988-001 through 008 SVOC\_DW(525.3): Low recovery for surrogate 1,3-Dimethyl-2-nitrobenzene was confirmed by reanalysis. Possible low bias for several analytes due to low recoveries in LCS/LCSD-65584, confirmed by reanalysis.

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**Workorder**  
**Sample Summary**  
 WO#: **23030988**  
**22-Mar-23**

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

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
23030988-001	PW-201 Well 008		3/14/2023 11:30:00 AM	3/14/2023 5:00:00 PM	Drinking Water
23030988-001	PW-201 Well 008		3/14/2023 11:30:00 AM	3/14/2023 5:00:00 PM	Drinking Water
23030988-001	PW-201 Well 008		3/14/2023 11:30:00 AM	3/14/2023 5:00:00 PM	Drinking Water
23030988-001	PW-201 Well 008		3/14/2023 11:30:00 AM	3/14/2023 5:00:00 PM	Drinking Water
23030988-001	PW-201 Well 008		3/14/2023 11:30:00 AM	3/14/2023 5:00:00 PM	Drinking Water
23030988-002	PW-202 Rhoades Well		3/14/2023 11:55:00 AM	3/14/2023 5:00:00 PM	Drinking Water
23030988-002	PW-202 Rhoades Well		3/14/2023 11:55:00 AM	3/14/2023 5:00:00 PM	Drinking Water
23030988-002	PW-202 Rhoades Well		3/14/2023 11:55:00 AM	3/14/2023 5:00:00 PM	Drinking Water
23030988-002	PW-202 Rhoades Well		3/14/2023 11:55:00 AM	3/14/2023 5:00:00 PM	Drinking Water
23030988-002	PW-202 Rhoades Well		3/14/2023 11:55:00 AM	3/14/2023 5:00:00 PM	Drinking Water
23030988-003	PW-203 Nulf Well		3/14/2023 12:35:00 PM	3/14/2023 5:00:00 PM	Drinking Water
23030988-003	PW-203 Nulf Well		3/14/2023 12:35:00 PM	3/14/2023 5:00:00 PM	Drinking Water
23030988-003	PW-203 Nulf Well		3/14/2023 12:35:00 PM	3/14/2023 5:00:00 PM	Drinking Water
23030988-003	PW-203 Nulf Well		3/14/2023 12:35:00 PM	3/14/2023 5:00:00 PM	Drinking Water
23030988-003	PW-203 Nulf Well		3/14/2023 12:35:00 PM	3/14/2023 5:00:00 PM	Drinking Water
23030988-004	PW-204 Harding Well		3/14/2023 1:20:00 PM	3/14/2023 5:00:00 PM	Drinking Water
23030988-004	PW-204 Harding Well		3/14/2023 1:20:00 PM	3/14/2023 5:00:00 PM	Drinking Water
23030988-004	PW-204 Harding Well		3/14/2023 1:20:00 PM	3/14/2023 5:00:00 PM	Drinking Water
23030988-004	PW-204 Harding Well		3/14/2023 1:20:00 PM	3/14/2023 5:00:00 PM	Drinking Water
23030988-004	PW-204 Harding Well		3/14/2023 1:20:00 PM	3/14/2023 5:00:00 PM	Drinking Water
23030988-005	PW-205 Zuch Well		3/14/2023 1:50:00 PM	3/14/2023 5:00:00 PM	Drinking Water
23030988-005	PW-205 Zuch Well		3/14/2023 1:50:00 PM	3/14/2023 5:00:00 PM	Drinking Water
23030988-005	PW-205 Zuch Well		3/14/2023 1:50:00 PM	3/14/2023 5:00:00 PM	Drinking Water



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## Workorder Sample Summary

WO#: 23030988

22-Mar-23

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

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
23030988-005	PW-205 Zuch Well		3/14/2023 1:50:00 PM	3/14/2023 5:00:00 PM	Drinking Water
23030988-005	PW-205 Zuch Well		3/14/2023 1:50:00 PM	3/14/2023 5:00:00 PM	Drinking Water
23030988-006	PW-207 Entry Point		3/14/2023 2:15:00 PM	3/14/2023 5:00:00 PM	Drinking Water
23030988-006	PW-207 Entry Point		3/14/2023 2:15:00 PM	3/14/2023 5:00:00 PM	Drinking Water
23030988-006	PW-207 Entry Point		3/14/2023 2:15:00 PM	3/14/2023 5:00:00 PM	Drinking Water
23030988-006	PW-207 Entry Point		3/14/2023 2:15:00 PM	3/14/2023 5:00:00 PM	Drinking Water
23030988-006	PW-207 Entry Point		3/14/2023 2:15:00 PM	3/14/2023 5:00:00 PM	Drinking Water
23030988-006	PW-207 Entry Point		3/14/2023 2:15:00 PM	3/14/2023 5:00:00 PM	Drinking Water
23030988-007	PW-201FB Field Blank		3/14/2023 10:45:00 AM	3/14/2023 5:00:00 PM	Drinking Water
23030988-007	PW-201FB Field Blank		3/14/2023 10:45:00 AM	3/14/2023 5:00:00 PM	Drinking Water
23030988-007	PW-201FB Field Blank		3/14/2023 10:45:00 AM	3/14/2023 5:00:00 PM	Drinking Water
23030988-007	PW-201FB Field Blank		3/14/2023 10:45:00 AM	3/14/2023 5:00:00 PM	Drinking Water
23030988-007	PW-201FB Field Blank		3/14/2023 10:45:00 AM	3/14/2023 5:00:00 PM	Drinking Water
23030988-008	PW-207DUPE Dupelicate		3/14/2023 2:15:00 PM	3/14/2023 5:00:00 PM	Drinking Water
23030988-008	PW-207DUPE Dupelicate		3/14/2023 2:15:00 PM	3/14/2023 5:00:00 PM	Drinking Water
23030988-008	PW-207DUPE Dupelicate		3/14/2023 2:15:00 PM	3/14/2023 5:00:00 PM	Drinking Water
23030988-008	PW-207DUPE Dupelicate		3/14/2023 2:15:00 PM	3/14/2023 5:00:00 PM	Drinking Water
23030988-008	PW-207DUPE Dupelicate		3/14/2023 2:15:00 PM	3/14/2023 5:00:00 PM	Drinking Water
23030988-009	Trip Blank 1			3/14/2023 5:00:00 PM	Drinking Water
23030988-009	Trip Blank 1			3/14/2023 5:00:00 PM	Drinking Water
23030988-009	Trip Blank 1			3/14/2023 5:00:00 PM	Drinking Water
23030988-010	Trip Blank 2			3/14/2023 5:00:00 PM	Drinking Water
23030988-010	Trip Blank 2			3/14/2023 5:00:00 PM	Drinking Water
23030988-010	Trip Blank 2			3/14/2023 5:00:00 PM	Drinking Water



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**Workorder**  
**Sample Summary**  
 WO#: **23030988**  
**22-Mar-23**

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

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
23030988-011	Trip Blank 3			3/14/2023 5:00:00 PM	Drinking Water
23030988-011	Trip Blank 3			3/14/2023 5:00:00 PM	Drinking Water
23030988-011	Trip Blank 3			3/14/2023 5:00:00 PM	Drinking Water
23030988-012	Trip Blank 4			3/14/2023 5:00:00 PM	Drinking Water
23030988-012	Trip Blank 4			3/14/2023 5:00:00 PM	Drinking Water
23030988-012	Trip Blank 4			3/14/2023 5:00:00 PM	Drinking Water



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# Analytical Report

(consolidated)

WO#: 23030988

Date Reported: 3/22/2023

**CLIENT:** OhioEPA-DDAGW **Collection Date:** 3/14/2023 11:30:00 AM  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030988-001 **Matrix:** DRINKING WATER  
**Client Sample ID:** PW-201 Well 008

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>GLYCOLS (8015)</b>		<b>SW8015C</b>			Analyst: JDB	
Diethylene glycol	ND	5000		µg/L	1	3/16/2023 3:24:00 PM
Ethylene glycol	ND	5000		µg/L	1	3/16/2023 3:24:00 PM
Propylene glycol	ND	5000		µg/L	1	3/16/2023 3:24:00 PM
Triethylene glycol	ND	5000		µg/L	1	3/16/2023 3:24:00 PM
<b>EPA504.-DW</b>		<b>E504.1</b>			Analyst: PGP	
<b>EDB, DBCP, 123TCP BY GC (EPA 504.1)</b>						
Dibromochloropropane	ND	0.0400		µg/L	1	3/17/2023 3:10:00 AM
Ethylene dibromide	ND	0.0200		µg/L	1	3/17/2023 3:10:00 AM
<b>DRINKING WATER ORGANIC COMPOUNDS (EPA 525)</b>		<b>E525</b>			Analyst: CSS	
<b>SYNTHETIC ORGANIC COMPOUNDS BY GC/MS (EPA 525.3)</b>						
2,4-Dinitrotoluene	ND	0.194	QL-,QL-	µg/L	1	3/21/2023 2:16:00 AM
Acenaphthylene	ND	0.0971		µg/L	1	3/21/2023 2:16:00 AM
Anthracene	ND	0.0971	QL-,QL-	µg/L	1	3/21/2023 2:16:00 AM
Benzo(a)anthracene	ND	0.0971		µg/L	1	3/21/2023 2:16:00 AM
Benzo(a)pyrene	ND	0.0971		µg/L	1	3/21/2023 2:16:00 AM
Benzo(b)fluoranthene	ND	0.0971		µg/L	1	3/21/2023 2:16:00 AM
Benzo(g,h,i)perylene	ND	0.0971		µg/L	1	3/21/2023 2:16:00 AM
Benzo(k)fluoranthene	ND	0.0971	QL-,QL-	µg/L	1	3/21/2023 2:16:00 AM
Bis(2-ethylhexyl) phthalate	0.136	0.194	J	µg/L	1	3/21/2023 2:16:00 AM
Butyl benzyl phthalate	ND	0.194	QL-,QL-	µg/L	1	3/21/2023 2:16:00 AM
Chrysene	ND	0.0971	QL-,QL-	µg/L	1	3/21/2023 2:16:00 AM
Dibenz(a,h)anthracene	ND	0.0971		µg/L	1	3/21/2023 2:16:00 AM
Diethyl phthalate	ND	0.0971		µg/L	1	3/21/2023 2:16:00 AM
Dimethyl phthalate	ND	0.194		µg/L	1	3/21/2023 2:16:00 AM
Di-n-butyl phthalate	0.233	0.194		µg/L	1	3/21/2023 2:16:00 AM
Fluorene	ND	0.0971	QL-,QL-	µg/L	1	3/21/2023 2:16:00 AM
Hexachlorobenzene	ND	0.0971		µg/L	1	3/21/2023 2:16:00 AM
Hexachlorocyclopentadiene	ND	0.0971		µg/L	1	3/21/2023 2:16:00 AM
Indeno(1,2,3-cd)pyrene	ND	0.971		µg/L	1	3/21/2023 2:16:00 AM
Isophorone	ND	0.194		µg/L	1	3/21/2023 2:16:00 AM
Phenanthrene	ND	0.0971	QL-,QL-	µg/L	1	3/21/2023 2:16:00 AM
Pyrene	ND	0.0971	QL-,QL-	µg/L	1	3/21/2023 2:16:00 AM

<b>Qualifiers:</b>	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
	J	Analyte detected below quantitation limits		

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# Analytical Report

(consolidated)

WO#: 23030988

Date Reported: 3/22/2023

**CLIENT:** OhioEPA-DDAGW **Collection Date:** 3/14/2023 11:30:00 AM  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030988-001 **Matrix:** DRINKING WATER  
**Client Sample ID:** PW-201 Well 008

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

Surr: 1,3-Dimethyl-2-nitrobenzene	66.8	70 - 130	S	%Rec	1	3/21/2023 2:16:00 AM
Surr: Benzo(a)pyrene-d12	86.2	70 - 130		%Rec	1	3/21/2023 2:16:00 AM
Surr: Triphenyl phosphate	97.0	70 - 130		%Rec	1	3/21/2023 2:16:00 AM

SVOC BY SW8270E	Result	PQL	Qual	Units	DF	Date Analyzed
<b>SVOC BY 8270E</b>				<b>SW8270</b>	<b>SW3510C</b>	Analyst: <b>MES</b>

2,6-Dinitrotoluene	ND	0.980		µg/L	1	3/18/2023 2:42:00 PM
2-Butoxyethanol	ND	29.4		µg/L	1	3/18/2023 2:42:00 PM
2-Methylnaphthalene	ND	0.980		µg/L	1	3/18/2023 2:42:00 PM
3,3'-Dichlorobenzidine	ND	9.80	QC+	µg/L	1	3/18/2023 2:42:00 PM
4-Nitrophenol	ND	4.90	QC+	µg/L	1	3/18/2023 2:42:00 PM
Acenaphthene	ND	0.980		µg/L	1	3/18/2023 2:42:00 PM
Benzoic acid	ND	15.7	QC+	µg/L	1	3/18/2023 2:42:00 PM
Bis(2-chloroethyl) ether	ND	0.980		µg/L	1	3/18/2023 2:42:00 PM
Di-n-octyl phthalate	ND	4.90	QC+QL+	µg/L	1	3/18/2023 2:42:00 PM
Fluoranthene	ND	0.980		µg/L	1	3/18/2023 2:42:00 PM
Naphthalene	ND	0.980		µg/L	1	3/18/2023 2:42:00 PM
Phenol	ND	0.980		µg/L	1	3/18/2023 2:42:00 PM
3&4-Methylphenol	ND	0.980		µg/L	1	3/18/2023 2:42:00 PM
Surr: 2-Fluorophenol	49.5	20 - 130		%Rec	1	3/18/2023 2:42:00 PM
Surr: Phenol-d6	31.8	20 - 130		%Rec	1	3/18/2023 2:42:00 PM
Surr: Nitrobenzene-d5	60.1	27.4 - 130		%Rec	1	3/18/2023 2:42:00 PM
Surr: 2,4,6-Tribromophenol	85.8	54.3 - 133		%Rec	1	3/18/2023 2:42:00 PM
Surr: 2-Fluorobiphenyl	56.1	25.6 - 130		%Rec	1	3/18/2023 2:42:00 PM
Surr: p-Terphenyl-d14	80.6	20 - 181		%Rec	1	3/18/2023 2:42:00 PM

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

1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	3/15/2023 10:18:00 PM
1,1,1-Trichloroethane	ND	0.500		µg/L	1	3/15/2023 10:18:00 PM
1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	3/15/2023 10:18:00 PM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	3/15/2023 10:18:00 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/15/2023 10:18:00 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	3/15/2023 10:18:00 PM

<b>Qualifiers:</b>	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
	J	Analyte detected below quantitation limits		

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# Analytical Report

(consolidated)

WO#: 23030988

Date Reported: 3/22/2023

**CLIENT:** OhioEPA-DDAGW  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030988-001  
**Client Sample ID:** PW-201 Well 008

**Collection Date:** 3/14/2023 11:30:00 AM

**Matrix:** DRINKING WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DRINKING WATER VOCS (EPA 524.2)</b>				<b>E524.2</b>	Analyst: ALS	
<b>VOC-GC/MS (524.2)</b>						
1,1-Dichloropropene	ND	0.500		µg/L	1	3/15/2023 10:18:00 PM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	3/15/2023 10:18:00 PM
1,2,3-Trichloropropane	ND	0.500		µg/L	1	3/15/2023 10:18:00 PM
1,2,4-Trichlorobenzene	ND	0.500		µg/L	1	3/15/2023 10:18:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	3/15/2023 10:18:00 PM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	3/15/2023 10:18:00 PM
1,2-Dichloroethane	ND	0.500		µg/L	1	3/15/2023 10:18:00 PM
1,2-Dichloropropane	ND	0.500		µg/L	1	3/15/2023 10:18:00 PM
1,3,5-Trimethylbenzene	ND	0.500		µg/L	1	3/15/2023 10:18:00 PM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	3/15/2023 10:18:00 PM
1,3-Dichloropropane	ND	0.500		µg/L	1	3/15/2023 10:18:00 PM
1,3-Dichloropropene, Total	ND	1.00		µg/L	1	3/15/2023 10:18:00 PM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	3/15/2023 10:18:00 PM
2-Chlorotoluene	ND	0.500		µg/L	1	3/15/2023 10:18:00 PM
2-Hexanone	ND	5.00		µg/L	1	3/15/2023 10:18:00 PM
4-Chlorotoluene	ND	0.500		µg/L	1	3/15/2023 10:18:00 PM
4-Methyl-2-pentanone	ND	5.00		µg/L	1	3/15/2023 10:18:00 PM
Acetone	ND	5.00		µg/L	1	3/15/2023 10:18:00 PM
Benzene	ND	0.500		µg/L	1	3/15/2023 10:18:00 PM
Bromobenzene	ND	0.500		µg/L	1	3/15/2023 10:18:00 PM
Bromodichloromethane	ND	0.500		µg/L	1	3/15/2023 10:18:00 PM
Bromoform	ND	0.500		µg/L	1	3/16/2023 9:14:00 PM
Bromomethane	ND	1.00		µg/L	1	3/15/2023 10:18:00 PM
Carbon tetrachloride	ND	0.500		µg/L	1	3/15/2023 10:18:00 PM
Chlorobenzene	ND	0.500		µg/L	1	3/15/2023 10:18:00 PM
Chlorobromomethane	ND	0.500		µg/L	1	3/15/2023 10:18:00 PM
Chlorodibromomethane	ND	0.500		µg/L	1	3/15/2023 10:18:00 PM
Chloroethane	ND	0.500		µg/L	1	3/15/2023 10:18:00 PM
Chloroform	ND	0.500		µg/L	1	3/15/2023 10:18:00 PM
Chloromethane	ND	0.500		µg/L	1	3/15/2023 10:18:00 PM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	3/15/2023 10:18:00 PM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	3/15/2023 10:18:00 PM
Dibromomethane	ND	0.500		µg/L	1	3/15/2023 10:18:00 PM
Dichlorodifluoromethane	ND	0.500		µg/L	1	3/15/2023 10:18:00 PM

<b>Qualifiers:</b>	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
	J	Analyte detected below quantitation limits		

Original



Summit Environmental Technologies, Inc.  
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 TEL: (330) 253-8211 FAX: (330) 253-4489  
 Website: <http://www.settek.com>

# Analytical Report

(consolidated)

WO#: 23030988

Date Reported: 3/22/2023

**CLIENT:** OhioEPA-DDAGW  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030988-001  
**Client Sample ID:** PW-201 Well 008

**Collection Date:** 3/14/2023 11:30:00 AM

**Matrix:** DRINKING WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DRINKING WATER VOCS (EPA 524.2)</b>				<b>E524.2</b>	Analyst: ALS	
<b>VOC-GC/MS (524.2)</b>						
Ethylbenzene	ND	0.500		µg/L	1	3/15/2023 10:18:00 PM
Hexachloro-1,3-butadiene	ND	0.500		µg/L	1	3/15/2023 10:18:00 PM
Isopropylbenzene	ND	0.500		µg/L	1	3/15/2023 10:18:00 PM
m,p-Xylene	ND	0.500		µg/L	1	3/15/2023 10:18:00 PM
Methylene chloride	ND	0.500		µg/L	1	3/15/2023 10:18:00 PM
MTBE	ND	0.500		µg/L	1	3/15/2023 10:18:00 PM
n-Butylbenzene	ND	0.500		µg/L	1	3/15/2023 10:18:00 PM
n-Propylbenzene	ND	0.500		µg/L	1	3/15/2023 10:18:00 PM
o-Xylene	ND	0.500		µg/L	1	3/15/2023 10:18:00 PM
p-Isopropyltoluene	ND	0.500		µg/L	1	3/15/2023 10:18:00 PM
sec-Butylbenzene	ND	0.500		µg/L	1	3/15/2023 10:18:00 PM
Styrene	ND	0.500		µg/L	1	3/15/2023 10:18:00 PM
Tert-amyl methyl ether	ND	0.500		µg/L	1	3/15/2023 10:18:00 PM
Tert-butyl Alcohol	ND	5.00		µg/L	1	3/15/2023 10:18:00 PM
tert-Butylbenzene	ND	0.500		µg/L	1	3/15/2023 10:18:00 PM
Tetrachloroethene	ND	0.500		µg/L	1	3/15/2023 10:18:00 PM
Toluene	ND	0.500		µg/L	1	3/15/2023 10:18:00 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	3/15/2023 10:18:00 PM
trans-1,3-Dichloropropene	ND	0.500		µg/L	1	3/15/2023 10:18:00 PM
Trichloroethene	ND	0.500		µg/L	1	3/15/2023 10:18:00 PM
Trichlorofluoromethane	ND	0.500		µg/L	1	3/15/2023 10:18:00 PM
Vinyl chloride	ND	0.500		µg/L	1	3/15/2023 10:18:00 PM
Xylenes, Total	ND	0.500		µg/L	1	3/15/2023 10:18:00 PM
Surr: 1,2-Dichlorobenzene-d4	87.5	70 - 130		%Rec	1	3/15/2023 10:18:00 PM
Surr: 1,2-Dichlorobenzene-d4	87.3	70 - 130		%Rec	1	3/16/2023 9:14:00 PM
Surr: 4-Bromofluorobenzene	82.1	70 - 130		%Rec	1	3/16/2023 9:14:00 PM
Surr: 4-Bromofluorobenzene	82.6	70 - 130		%Rec	1	3/15/2023 10:18:00 PM

<b>VOC ANALYSIS (8260D)</b>				<b>SW8260</b>	Analyst: ZDA	
<b>VOC BY GC/MS (8260D)</b>						
Freon-113	ND	5.00		µg/L	1	3/16/2023 6:36:00 PM
1,3-Butadiene	ND	5.00		µg/L	1	3/15/2023 5:04:00 PM
1,4-Dioxane	ND	25.0		µg/L	1	3/15/2023 5:04:00 PM
2,2-Dichloropropane	ND	5.00		µg/L	1	3/15/2023 5:04:00 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		
J	Analyte detected below quantitation limits					

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# Analytical Report

(consolidated)

WO#: 23030988

Date Reported: 3/22/2023

**CLIENT:** OhioEPA-DDAGW  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030988-001  
**Client Sample ID:** PW-201 Well 008

**Collection Date:** 3/14/2023 11:30:00 AM

**Matrix:** DRINKING WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>VOC ANALYSIS (8260D)</b>				<b>SW8260</b>	Analyst: ZDA	
<b>VOC BY GC/MS (8260D)</b>						
2-Butanone	ND	25.0		µg/L	1	3/15/2023 5:04:00 PM
2-Nitropropane	ND	50.0		µg/L	1	3/15/2023 5:04:00 PM
Acrylonitrile (2-propenenitrile)	ND	30.0		µg/L	1	3/15/2023 5:04:00 PM
Allyl chloride	ND	5.00		µg/L	1	3/15/2023 5:04:00 PM
Carbon disulfide	ND	5.00		µg/L	1	3/15/2023 5:04:00 PM
Chloroprene	ND	5.00		µg/L	1	3/15/2023 5:04:00 PM
Cyclohexanone	ND	5.00		µg/L	1	3/15/2023 5:04:00 PM
Ethyl Ether	ND	10.0		µg/L	1	3/15/2023 5:04:00 PM
Epichlorohydrin	ND	20.0		µg/L	1	3/15/2023 5:04:00 PM
ETBE	ND	5.00		µg/L	1	3/15/2023 5:04:00 PM
Ethanol	ND	20.0		µg/L	1	3/15/2023 5:04:00 PM
Ethyl acrylate	ND	5.00		µg/L	1	3/15/2023 5:04:00 PM
Ethyl methacrylate	ND	5.00		µg/L	1	3/15/2023 5:04:00 PM
Hexachloroethane	ND	5.00		µg/L	1	3/15/2023 5:04:00 PM
Diisopropyl ether (DIPE)	ND	5.00		µg/L	1	3/15/2023 5:04:00 PM
Methacrylonitrile	ND	5.00		µg/L	1	3/15/2023 5:04:00 PM
Methyl acrylate	ND	5.00		µg/L	1	3/15/2023 5:04:00 PM
Methyl methacrylate	ND	5.00		µg/L	1	3/15/2023 5:04:00 PM
Propionitrile	ND	5.00		µg/L	1	3/15/2023 5:04:00 PM
trans-1,4-Dichloro-2-butene	ND	5.00		µg/L	1	3/15/2023 5:04:00 PM
Vinyl acetate	ND	5.00		µg/L	1	3/15/2023 5:04:00 PM
1,2,3-Trimethylbenzene	ND	5.00		µg/L	1	3/15/2023 5:04:00 PM
Surr: 4-Bromofluorobenzene	98.1	70 - 130		%Rec	1	3/15/2023 5:04:00 PM
Surr: 4-Bromofluorobenzene	97.6	70 - 130		%Rec	1	3/16/2023 6:36:00 PM
Surr: Dibromofluoromethane	103	70 - 130		%Rec	1	3/15/2023 5:04:00 PM
Surr: Dibromofluoromethane	99.0	70 - 130		%Rec	1	3/16/2023 6:36:00 PM
Surr: Toluene-d8	99.4	70 - 130		%Rec	1	3/15/2023 5:04:00 PM
Surr: Toluene-d8	100	70 - 130		%Rec	1	3/16/2023 6:36:00 PM

<b>VOC TENTATIVELY IDENTIFIED COMPOUNDS (TICS)</b>				<b>SW8260</b>	Analyst: ZDA	
TIC: 1-Chlorobutane	ND		J	µg/L	1	3/15/2023 5:04:00 PM
TIC: 1-Methylnaphthalene	ND		J	µg/L	1	3/15/2023 5:04:00 PM
TIC: 2-Butyloxyethyl acetate	ND		J	µg/L	1	3/15/2023 5:04:00 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			
J	Analyte detected below quantitation limits					

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# Analytical Report

(consolidated)

WO#: 23030988

Date Reported: 3/22/2023

**CLIENT:** OhioEPA-DDAGW **Collection Date:** 3/14/2023 11:30:00 AM  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030988-001 **Matrix:** DRINKING WATER  
**Client Sample ID:** PW-201 Well 008

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>VOC TENTATIVELY IDENTIFIED COMPOUNDS (TICS)</b>				<b>SW8260</b>	Analyst: ZDA	
TIC: 2-Ethylhexyl acrylate	ND	J		µg/L	1	3/15/2023 5:04:00 PM
TIC: Benzyl chloride	ND	J		µg/L	1	3/15/2023 5:04:00 PM
TIC: Bromoethane	ND	J		µg/L	1	3/15/2023 5:04:00 PM
TIC: Chloroacetonitrile	ND	J		µg/L	1	3/15/2023 5:04:00 PM
TIC: n-Butyl acrylate	ND	J		µg/L	1	3/15/2023 5:04:00 PM
TIC: Pentachloroethane	ND	J		µg/L	1	3/15/2023 5:04:00 PM

<b>Qualifiers:</b>	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#: 23030988

Date Reported: 3/22/2023

**CLIENT:** OhioEPA-DDAGW **Collection Date:** 3/14/2023 11:55:00 AM  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030988-002 **Matrix:** DRINKING WATER  
**Client Sample ID:** PW-202 Rhoades Well

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>GLYCOLS (8015)</b>				<b>SW8015C</b>	Analyst: JDB	
Diethylene glycol	ND	5000		µg/L	1	3/16/2023 4:20:00 PM
Ethylene glycol	ND	5000		µg/L	1	3/16/2023 4:20:00 PM
Propylene glycol	ND	5000		µg/L	1	3/16/2023 4:20:00 PM
Triethylene glycol	ND	5000		µg/L	1	3/16/2023 4:20:00 PM
<b>EPA504.-DW</b>				<b>E504.1</b>	<b>E504.1</b>	Analyst: PGP
<b>EDB, DBCP, 123TCP BY GC (EPA 504.1)</b>						
Dibromochloropropane	ND	0.0400		µg/L	1	3/17/2023 3:31:00 AM
Ethylene dibromide	ND	0.0200		µg/L	1	3/17/2023 3:31:00 AM
<b>DRINKING WATER ORGANIC COMPOUNDS (EPA 525)</b>				<b>E525</b>	<b>525</b>	Analyst: CSS
<b>SYNTHETIC ORGANIC COMPOUNDS BY GC/MS (EPA 525.3)</b>						
2,4-Dinitrotoluene	ND	0.196	QL-,QL-	µg/L	1	3/21/2023 3:03:00 AM
Acenaphthylene	ND	0.0980		µg/L	1	3/21/2023 3:03:00 AM
Anthracene	ND	0.0980	QL-,QL-	µg/L	1	3/21/2023 3:03:00 AM
Benzo(a)anthracene	ND	0.0980		µg/L	1	3/21/2023 3:03:00 AM
Benzo(a)pyrene	ND	0.0980		µg/L	1	3/21/2023 3:03:00 AM
Benzo(b)fluoranthene	ND	0.0980		µg/L	1	3/21/2023 3:03:00 AM
Benzo(g,h,i)perylene	ND	0.0980		µg/L	1	3/21/2023 3:03:00 AM
Benzo(k)fluoranthene	ND	0.0980	QL-,QL-	µg/L	1	3/21/2023 3:03:00 AM
Bis(2-ethylhexyl) phthalate	0.147	0.196	J	µg/L	1	3/21/2023 3:03:00 AM
Butyl benzyl phthalate	ND	0.196	QL-,QL-	µg/L	1	3/21/2023 3:03:00 AM
Chrysene	ND	0.0980	QL-,QL-	µg/L	1	3/21/2023 3:03:00 AM
Dibenz(a,h)anthracene	ND	0.0980		µg/L	1	3/21/2023 3:03:00 AM
Diethyl phthalate	ND	0.0980		µg/L	1	3/21/2023 3:03:00 AM
Dimethyl phthalate	ND	0.196		µg/L	1	3/21/2023 3:03:00 AM
Di-n-butyl phthalate	0.196	0.196		µg/L	1	3/21/2023 3:03:00 AM
Fluorene	ND	0.0980	QL-,QL-	µg/L	1	3/21/2023 3:03:00 AM
Hexachlorobenzene	ND	0.0980		µg/L	1	3/21/2023 3:03:00 AM
Hexachlorocyclopentadiene	ND	0.0980		µg/L	1	3/21/2023 3:03:00 AM
Indeno(1,2,3-cd)pyrene	ND	0.980		µg/L	1	3/21/2023 3:03:00 AM
Isophorone	ND	0.196		µg/L	1	3/21/2023 3:03:00 AM
Phenanthrene	ND	0.0980	QL-,QL-	µg/L	1	3/21/2023 3:03:00 AM
Pyrene	ND	0.0980	QL-,QL-	µg/L	1	3/21/2023 3:03:00 AM

<b>Qualifiers:</b>	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
	J	Analyte detected below quantitation limits		

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# Analytical Report

(consolidated)

WO#: 23030988

Date Reported: 3/22/2023

**CLIENT:** OhioEPA-DDAGW **Collection Date:** 3/14/2023 11:55:00 AM  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030988-002 **Matrix:** DRINKING WATER  
**Client Sample ID:** PW-202 Rhoades Well

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DRINKING WATER ORGANIC COMPOUNDS (EPA 525)</b>				<b>E525</b>	<b>525</b>	Analyst: <b>CSS</b>
<b>SYNTHETIC ORGANIC COMPOUNDS BY GC/MS (EPA 525.3)</b>						
Surr: 1,3-Dimethyl-2-nitrobenz...	64.8	70 - 130	S	%Rec	1	3/21/2023 3:03:00 AM
Surr: Benzo(a)pyrene-d12	83.4	70 - 130		%Rec	1	3/21/2023 3:03:00 AM
Surr: Triphenyl phosphate	96.4	70 - 130		%Rec	1	3/21/2023 3:03:00 AM
<b>SVOC BY SW8270E</b>				<b>SW8270</b>	<b>SW3510C</b>	Analyst: <b>MES</b>
<b>SVOC BY 8270E</b>						
2,6-Dinitrotoluene	ND	1.00		µg/L	1	3/18/2023 3:23:00 PM
2-Butoxyethanol	ND	30.0		µg/L	1	3/18/2023 3:23:00 PM
2-Methylnaphthalene	ND	1.00		µg/L	1	3/18/2023 3:23:00 PM
3,3'-Dichlorobenzidine	ND	10.0	QC+	µg/L	1	3/18/2023 3:23:00 PM
4-Nitrophenol	ND	5.00	QC+	µg/L	1	3/18/2023 3:23:00 PM
Acenaphthene	ND	1.00		µg/L	1	3/18/2023 3:23:00 PM
Benzoic acid	ND	16.0	QC+	µg/L	1	3/18/2023 3:23:00 PM
Bis(2-chloroethyl) ether	ND	1.00		µg/L	1	3/18/2023 3:23:00 PM
Di-n-octyl phthalate	ND	5.00	QC+QL+	µg/L	1	3/18/2023 3:23:00 PM
Fluoranthene	ND	1.00		µg/L	1	3/18/2023 3:23:00 PM
Naphthalene	ND	1.00		µg/L	1	3/18/2023 3:23:00 PM
Phenol	ND	1.00		µg/L	1	3/18/2023 3:23:00 PM
3&4-Methylphenol	ND	1.00		µg/L	1	3/18/2023 3:23:00 PM
Surr: 2-Fluorophenol	47.5	20 - 130		%Rec	1	3/18/2023 3:23:00 PM
Surr: Phenol-d6	29.0	20 - 130		%Rec	1	3/18/2023 3:23:00 PM
Surr: Nitrobenzene-d5	54.6	27.4 - 130		%Rec	1	3/18/2023 3:23:00 PM
Surr: 2,4,6-Tribromophenol	75.0	54.3 - 133		%Rec	1	3/18/2023 3:23:00 PM
Surr: 2-Fluorobiphenyl	54.9	25.6 - 130		%Rec	1	3/18/2023 3:23:00 PM
Surr: p-Terphenyl-d14	75.3	20 - 181		%Rec	1	3/18/2023 3:23:00 PM
<b>DRINKING WATER VOCs (EPA 524.2)</b>				<b>E524.2</b>		Analyst: <b>ALS</b>
<b>VOC-GC/MS (524.2)</b>						
1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	3/16/2023 1:39:00 AM
1,1,1-Trichloroethane	ND	0.500		µg/L	1	3/16/2023 1:39:00 AM
1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	3/16/2023 1:39:00 AM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	3/16/2023 1:39:00 AM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/16/2023 1:39:00 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	3/16/2023 1:39:00 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#: 23030988

Date Reported: 3/22/2023

**CLIENT:** OhioEPA-DDAGW

**Collection Date:** 3/14/2023 11:55:00 AM

**Project:** Ohio EPA PWS-EP

**Lab ID:** 23030988-002

**Matrix:** DRINKING WATER

**Client Sample ID:** PW-202 Rhoades Well

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DRINKING WATER VOCS (EPA 524.2)</b>				<b>E524.2</b>	Analyst: ALS	
<b>VOC-GC/MS (524.2)</b>						
1,1-Dichloropropene	ND	0.500		µg/L	1	3/16/2023 1:39:00 AM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	3/16/2023 1:39:00 AM
1,2,3-Trichloropropane	ND	0.500		µg/L	1	3/16/2023 1:39:00 AM
1,2,4-Trichlorobenzene	ND	0.500		µg/L	1	3/16/2023 1:39:00 AM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	3/16/2023 1:39:00 AM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	3/16/2023 1:39:00 AM
1,2-Dichloroethane	ND	0.500		µg/L	1	3/16/2023 1:39:00 AM
1,2-Dichloropropane	ND	0.500		µg/L	1	3/16/2023 1:39:00 AM
1,3,5-Trimethylbenzene	ND	0.500		µg/L	1	3/16/2023 1:39:00 AM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	3/16/2023 1:39:00 AM
1,3-Dichloropropane	ND	0.500		µg/L	1	3/16/2023 1:39:00 AM
1,3-Dichloropropene, Total	ND	1.00		µg/L	1	3/16/2023 1:39:00 AM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	3/16/2023 1:39:00 AM
2-Chlorotoluene	ND	0.500		µg/L	1	3/16/2023 1:39:00 AM
2-Hexanone	ND	5.00		µg/L	1	3/16/2023 1:39:00 AM
4-Chlorotoluene	ND	0.500		µg/L	1	3/16/2023 1:39:00 AM
4-Methyl-2-pentanone	ND	5.00		µg/L	1	3/16/2023 1:39:00 AM
Acetone	ND	5.00		µg/L	1	3/16/2023 1:39:00 AM
Benzene	ND	0.500		µg/L	1	3/16/2023 1:39:00 AM
Bromobenzene	ND	0.500		µg/L	1	3/16/2023 1:39:00 AM
Bromodichloromethane	ND	0.500		µg/L	1	3/16/2023 1:39:00 AM
Bromoform	ND	0.500		µg/L	1	3/16/2023 9:43:00 PM
Bromomethane	ND	1.00		µg/L	1	3/16/2023 1:39:00 AM
Carbon tetrachloride	ND	0.500		µg/L	1	3/16/2023 1:39:00 AM
Chlorobenzene	ND	0.500		µg/L	1	3/16/2023 1:39:00 AM
Chlorobromomethane	ND	0.500		µg/L	1	3/16/2023 1:39:00 AM
Chlorodibromomethane	ND	0.500		µg/L	1	3/16/2023 1:39:00 AM
Chloroethane	ND	0.500		µg/L	1	3/16/2023 1:39:00 AM
Chloroform	ND	0.500		µg/L	1	3/16/2023 1:39:00 AM
Chloromethane	ND	0.500		µg/L	1	3/16/2023 1:39:00 AM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	3/16/2023 1:39:00 AM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	3/16/2023 1:39:00 AM
Dibromomethane	ND	0.500		µg/L	1	3/16/2023 1:39:00 AM
Dichlorodifluoromethane	ND	0.500		µg/L	1	3/16/2023 1:39:00 AM

<b>Qualifiers:</b>	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
	J	Analyte detected below quantitation limits		

Original



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

# Analytical Report

(consolidated)

WO#: 23030988

Date Reported: 3/22/2023

**CLIENT:** OhioEPA-DDAGW  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030988-002  
**Client Sample ID:** PW-202 Rhoades Well

**Collection Date:** 3/14/2023 11:55:00 AM

**Matrix:** DRINKING WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DRINKING WATER VOCS (EPA 524.2)</b>				<b>E524.2</b>	Analyst: ALS	
<b>VOC-GC/MS (524.2)</b>						
Ethylbenzene	ND	0.500		µg/L	1	3/16/2023 1:39:00 AM
Hexachloro-1,3-butadiene	ND	0.500		µg/L	1	3/16/2023 1:39:00 AM
Isopropylbenzene	ND	0.500		µg/L	1	3/16/2023 1:39:00 AM
m,p-Xylene	ND	0.500		µg/L	1	3/16/2023 1:39:00 AM
Methylene chloride	ND	0.500		µg/L	1	3/16/2023 1:39:00 AM
MTBE	ND	0.500		µg/L	1	3/16/2023 1:39:00 AM
n-Butylbenzene	ND	0.500		µg/L	1	3/16/2023 1:39:00 AM
n-Propylbenzene	ND	0.500		µg/L	1	3/16/2023 1:39:00 AM
o-Xylene	ND	0.500		µg/L	1	3/16/2023 1:39:00 AM
p-Isopropyltoluene	ND	0.500		µg/L	1	3/16/2023 1:39:00 AM
sec-Butylbenzene	ND	0.500		µg/L	1	3/16/2023 1:39:00 AM
Styrene	ND	0.500		µg/L	1	3/16/2023 1:39:00 AM
Tert-amyl methyl ether	ND	0.500		µg/L	1	3/16/2023 1:39:00 AM
Tert-butyl Alcohol	ND	5.00		µg/L	1	3/16/2023 1:39:00 AM
tert-Butylbenzene	ND	0.500		µg/L	1	3/16/2023 1:39:00 AM
Tetrachloroethene	ND	0.500		µg/L	1	3/16/2023 1:39:00 AM
Toluene	ND	0.500		µg/L	1	3/16/2023 1:39:00 AM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	3/16/2023 1:39:00 AM
trans-1,3-Dichloropropene	ND	0.500		µg/L	1	3/16/2023 1:39:00 AM
Trichloroethene	ND	0.500		µg/L	1	3/16/2023 1:39:00 AM
Trichlorofluoromethane	ND	0.500		µg/L	1	3/16/2023 1:39:00 AM
Vinyl chloride	ND	0.500		µg/L	1	3/16/2023 1:39:00 AM
Xylenes, Total	ND	0.500		µg/L	1	3/16/2023 1:39:00 AM
Surr: 1,2-Dichlorobenzene-d4	83.6	70 - 130		%Rec	1	3/16/2023 1:39:00 AM
Surr: 1,2-Dichlorobenzene-d4	86.5	70 - 130		%Rec	1	3/16/2023 9:43:00 PM
Surr: 4-Bromofluorobenzene	82.9	70 - 130		%Rec	1	3/16/2023 9:43:00 PM
Surr: 4-Bromofluorobenzene	80.2	70 - 130		%Rec	1	3/16/2023 1:39:00 AM

<b>VOC ANALYSIS (8260D)</b>				<b>SW8260</b>	Analyst: ZDA	
<b>VOC BY GC/MS (8260D)</b>						
Freon-113	ND	5.00		µg/L	1	3/16/2023 7:01:00 PM
1,3-Butadiene	ND	5.00		µg/L	1	3/15/2023 5:28:00 PM
1,4-Dioxane	ND	25.0		µg/L	1	3/15/2023 5:28:00 PM
2,2-Dichloropropane	ND	5.00		µg/L	1	3/15/2023 5:28:00 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		
J	Analyte detected below quantitation limits					

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# Analytical Report

(consolidated)

WO#: 23030988

Date Reported: 3/22/2023

**CLIENT:** OhioEPA-DDAGW

**Collection Date:** 3/14/2023 11:55:00 AM

**Project:** Ohio EPA PWS-EP

**Lab ID:** 23030988-002

**Matrix:** DRINKING WATER

**Client Sample ID:** PW-202 Rhoades Well

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>VOC ANALYSIS (8260D)</b>				<b>SW8260</b>	Analyst: ZDA	
<b>VOC BY GC/MS (8260D)</b>						
2-Butanone	ND	25.0		µg/L	1	3/15/2023 5:28:00 PM
2-Nitropropane	ND	50.0		µg/L	1	3/15/2023 5:28:00 PM
Acrylonitrile (2-propenenitrile)	ND	30.0		µg/L	1	3/15/2023 5:28:00 PM
Allyl chloride	ND	5.00		µg/L	1	3/15/2023 5:28:00 PM
Carbon disulfide	ND	5.00		µg/L	1	3/15/2023 5:28:00 PM
Chloroprene	ND	5.00		µg/L	1	3/15/2023 5:28:00 PM
Cyclohexanone	ND	5.00		µg/L	1	3/15/2023 5:28:00 PM
Ethyl Ether	ND	10.0		µg/L	1	3/15/2023 5:28:00 PM
Epichlorohydrin	ND	20.0		µg/L	1	3/15/2023 5:28:00 PM
ETBE	ND	5.00		µg/L	1	3/15/2023 5:28:00 PM
Ethanol	ND	20.0		µg/L	1	3/15/2023 5:28:00 PM
Ethyl acrylate	ND	5.00		µg/L	1	3/15/2023 5:28:00 PM
Ethyl methacrylate	ND	5.00		µg/L	1	3/15/2023 5:28:00 PM
Hexachloroethane	ND	5.00		µg/L	1	3/15/2023 5:28:00 PM
Diisopropyl ether (DIPE)	ND	5.00		µg/L	1	3/15/2023 5:28:00 PM
Methacrylonitrile	ND	5.00		µg/L	1	3/15/2023 5:28:00 PM
Methyl acrylate	ND	5.00		µg/L	1	3/15/2023 5:28:00 PM
Methyl methacrylate	ND	5.00		µg/L	1	3/15/2023 5:28:00 PM
Propionitrile	ND	5.00		µg/L	1	3/15/2023 5:28:00 PM
trans-1,4-Dichloro-2-butene	ND	5.00		µg/L	1	3/15/2023 5:28:00 PM
Vinyl acetate	ND	5.00		µg/L	1	3/15/2023 5:28:00 PM
1,2,3-Trimethylbenzene	ND	5.00		µg/L	1	3/15/2023 5:28:00 PM
Surr: 4-Bromofluorobenzene	97.2	70 - 130		%Rec	1	3/15/2023 5:28:00 PM
Surr: 4-Bromofluorobenzene	98.5	70 - 130		%Rec	1	3/16/2023 7:01:00 PM
Surr: Dibromofluoromethane	103	70 - 130		%Rec	1	3/15/2023 5:28:00 PM
Surr: Dibromofluoromethane	96.7	70 - 130		%Rec	1	3/16/2023 7:01:00 PM
Surr: Toluene-d8	98.7	70 - 130		%Rec	1	3/15/2023 5:28:00 PM
Surr: Toluene-d8	100	70 - 130		%Rec	1	3/16/2023 7:01:00 PM

<b>VOC TENTATIVELY IDENTIFIED COMPOUNDS (TICS)</b>				<b>SW8260</b>	Analyst: ZDA	
TIC: 1-Chlorobutane	ND		J	µg/L	1	3/15/2023 5:28:00 PM
TIC: 1-Methylnaphthalene	ND		J	µg/L	1	3/15/2023 5:28:00 PM
TIC: 2-Butyloxyethyl acetate	ND		J	µg/L	1	3/15/2023 5:28:00 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		
J	Analyte detected below quantitation limits					

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# Analytical Report

(consolidated)

WO#: **23030988**

Date Reported: **3/22/2023**

**CLIENT:** OhioEPA-DDAGW **Collection Date:** 3/14/2023 11:55:00 AM  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030988-002 **Matrix:** DRINKING WATER  
**Client Sample ID:** PW-202 Rhoades Well

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**VOC TENTATIVELY IDENTIFIED COMPOUNDS (TICS)**

**SW8260**

Analyst: **ZDA**

TIC: 2-Ethylhexyl acrylate	ND	J		µg/L	1	3/15/2023 5:28:00 PM
TIC: Benzyl chloride	ND	J		µg/L	1	3/15/2023 5:28:00 PM
TIC: Bromoethane	ND	J		µg/L	1	3/15/2023 5:28:00 PM
TIC: Chloroacetonitrile	ND	J		µg/L	1	3/15/2023 5:28:00 PM
TIC: n-Butyl acrylate	ND	J		µg/L	1	3/15/2023 5:28:00 PM
TIC: Pentachloroethane	ND	J		µg/L	1	3/15/2023 5:28:00 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#: 23030988

Date Reported: 3/22/2023

**CLIENT:** OhioEPA-DDAGW  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030988-003  
**Client Sample ID:** PW-203 Nulf Well

**Collection Date:** 3/14/2023 12:35:00 PM

**Matrix:** DRINKING WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>GLYCOLS (8015)</b>		<b>SW8015C</b>			Analyst: JDB	
Diethylene glycol	ND	5000		µg/L	1	3/16/2023 5:16:00 PM
Ethylene glycol	ND	5000		µg/L	1	3/16/2023 5:16:00 PM
Propylene glycol	ND	5000		µg/L	1	3/16/2023 5:16:00 PM
Triethylene glycol	ND	5000		µg/L	1	3/16/2023 5:16:00 PM
<b>EPA504.-DW</b>		<b>E504.1</b>			Analyst: PGP	
<b>EDB, DBCP, 123TCP BY GC (EPA 504.1)</b>		<b>E504.1</b>			Analyst: PGP	
Dibromochloropropane	ND	0.0400		µg/L	1	3/17/2023 3:52:00 AM
Ethylene dibromide	ND	0.0200		µg/L	1	3/17/2023 3:52:00 AM
<b>DRINKING WATER ORGANIC COMPOUNDS (EPA 525)</b>		<b>E525</b>			Analyst: CSS	
<b>SYNTHETIC ORGANIC COMPOUNDS BY GC/MS (EPA 525.3)</b>		<b>525</b>			Analyst: CSS	
2,4-Dinitrotoluene	ND	0.198	QL-,QL-	µg/L	1	3/21/2023 3:49:00 AM
Acenaphthylene	ND	0.0990		µg/L	1	3/21/2023 3:49:00 AM
Anthracene	ND	0.0990	QL-,QL-	µg/L	1	3/21/2023 3:49:00 AM
Benzo(a)anthracene	ND	0.0990		µg/L	1	3/21/2023 3:49:00 AM
Benzo(a)pyrene	ND	0.0990		µg/L	1	3/21/2023 3:49:00 AM
Benzo(b)fluoranthene	ND	0.0990		µg/L	1	3/21/2023 3:49:00 AM
Benzo(g,h,i)perylene	ND	0.0990		µg/L	1	3/21/2023 3:49:00 AM
Benzo(k)fluoranthene	ND	0.0990	QL-,QL-	µg/L	1	3/21/2023 3:49:00 AM
Bis(2-ethylhexyl) phthalate	0.158	0.198	J	µg/L	1	3/21/2023 3:49:00 AM
Butyl benzyl phthalate	ND	0.198	QL-,QL-	µg/L	1	3/21/2023 3:49:00 AM
Chrysene	ND	0.0990	QL-,QL-	µg/L	1	3/21/2023 3:49:00 AM
Dibenz(a,h)anthracene	ND	0.0990		µg/L	1	3/21/2023 3:49:00 AM
Diethyl phthalate	ND	0.0990		µg/L	1	3/21/2023 3:49:00 AM
Dimethyl phthalate	ND	0.198		µg/L	1	3/21/2023 3:49:00 AM
Di-n-butyl phthalate	ND	0.198		µg/L	1	3/21/2023 3:49:00 AM
Fluorene	ND	0.0990	QL-,QL-	µg/L	1	3/21/2023 3:49:00 AM
Hexachlorobenzene	ND	0.0990		µg/L	1	3/21/2023 3:49:00 AM
Hexachlorocyclopentadiene	ND	0.0990		µg/L	1	3/21/2023 3:49:00 AM
Indeno(1,2,3-cd)pyrene	ND	0.990		µg/L	1	3/21/2023 3:49:00 AM
Isophorone	ND	0.198		µg/L	1	3/21/2023 3:49:00 AM
Phenanthrene	ND	0.0990	QL-,QL-	µg/L	1	3/21/2023 3:49:00 AM
Pyrene	ND	0.0990	QL-,QL-	µg/L	1	3/21/2023 3:49:00 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
	J	Analyte detected below quantitation limits		

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# Analytical Report

(consolidated)

WO#: 23030988

Date Reported: 3/22/2023

**CLIENT:** OhioEPA-DDAGW  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030988-003  
**Client Sample ID:** PW-203 Nulf Well

**Collection Date:** 3/14/2023 12:35:00 PM

**Matrix:** DRINKING WATER

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

Surr: 1,3-Dimethyl-2-nitrobenzene	64.2	70 - 130	S	%Rec	1	3/21/2023 3:49:00 AM
Surr: Benzo(a)pyrene-d12	78.4	70 - 130		%Rec	1	3/21/2023 3:49:00 AM
Surr: Triphenyl phosphate	96.8	70 - 130		%Rec	1	3/21/2023 3:49:00 AM

SVOC BY SW8270E					DF	Date Analyzed
<b>SVOC BY 8270E</b>					<b>SW8270</b>	<b>SW3510C</b>
						Analyst: <b>MES</b>

2,6-Dinitrotoluene	ND	0.980		µg/L	1	3/18/2023 4:04:00 PM
2-Butoxyethanol	ND	29.4		µg/L	1	3/18/2023 4:04:00 PM
2-Methylnaphthalene	ND	0.980		µg/L	1	3/18/2023 4:04:00 PM
3,3'-Dichlorobenzidine	ND	9.80	QC+	µg/L	1	3/18/2023 4:04:00 PM
4-Nitrophenol	ND	4.90	QC+	µg/L	1	3/18/2023 4:04:00 PM
Acenaphthene	ND	0.980		µg/L	1	3/18/2023 4:04:00 PM
Benzoic acid	ND	15.7	QC+	µg/L	1	3/18/2023 4:04:00 PM
Bis(2-chloroethyl) ether	ND	0.980		µg/L	1	3/18/2023 4:04:00 PM
Di-n-octyl phthalate	ND	4.90	QC+QL+	µg/L	1	3/18/2023 4:04:00 PM
Fluoranthene	ND	0.980		µg/L	1	3/18/2023 4:04:00 PM
Naphthalene	ND	0.980		µg/L	1	3/18/2023 4:04:00 PM
Phenol	ND	0.980		µg/L	1	3/18/2023 4:04:00 PM
3&4-Methylphenol	ND	0.980		µg/L	1	3/18/2023 4:04:00 PM
Surr: 2-Fluorophenol	47.3	20 - 130		%Rec	1	3/18/2023 4:04:00 PM
Surr: Phenol-d6	29.3	20 - 130		%Rec	1	3/18/2023 4:04:00 PM
Surr: Nitrobenzene-d5	63.3	27.4 - 130		%Rec	1	3/18/2023 4:04:00 PM
Surr: 2,4,6-Tribromophenol	87.0	54.3 - 133		%Rec	1	3/18/2023 4:04:00 PM
Surr: 2-Fluorobiphenyl	59.0	25.6 - 130		%Rec	1	3/18/2023 4:04:00 PM
Surr: p-Terphenyl-d14	84.3	20 - 181		%Rec	1	3/18/2023 4:04:00 PM

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

1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	3/16/2023 2:08:00 AM
1,1,1-Trichloroethane	ND	0.500		µg/L	1	3/16/2023 2:08:00 AM
1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	3/16/2023 2:08:00 AM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	3/16/2023 2:08:00 AM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/16/2023 2:08:00 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	3/16/2023 2:08:00 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		
J	Analyte detected below quantitation limits					

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# Analytical Report

(consolidated)

WO#: 23030988

Date Reported: 3/22/2023

**CLIENT:** OhioEPA-DDAGW  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030988-003  
**Client Sample ID:** PW-203 Nulf Well

**Collection Date:** 3/14/2023 12:35:00 PM

**Matrix:** DRINKING WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DRINKING WATER VOCS (EPA 524.2)</b>				<b>E524.2</b>	Analyst: ALS	
<b>VOC-GC/MS (524.2)</b>						
1,1-Dichloropropene	ND	0.500		µg/L	1	3/16/2023 2:08:00 AM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	3/16/2023 2:08:00 AM
1,2,3-Trichloropropane	ND	0.500		µg/L	1	3/16/2023 2:08:00 AM
1,2,4-Trichlorobenzene	ND	0.500		µg/L	1	3/16/2023 2:08:00 AM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	3/16/2023 2:08:00 AM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	3/16/2023 2:08:00 AM
1,2-Dichloroethane	ND	0.500		µg/L	1	3/16/2023 2:08:00 AM
1,2-Dichloropropane	ND	0.500		µg/L	1	3/16/2023 2:08:00 AM
1,3,5-Trimethylbenzene	ND	0.500		µg/L	1	3/16/2023 2:08:00 AM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	3/16/2023 2:08:00 AM
1,3-Dichloropropane	ND	0.500		µg/L	1	3/16/2023 2:08:00 AM
1,3-Dichloropropene, Total	ND	1.00		µg/L	1	3/16/2023 2:08:00 AM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	3/16/2023 2:08:00 AM
2-Chlorotoluene	ND	0.500		µg/L	1	3/16/2023 2:08:00 AM
2-Hexanone	ND	5.00		µg/L	1	3/16/2023 2:08:00 AM
4-Chlorotoluene	ND	0.500		µg/L	1	3/16/2023 2:08:00 AM
4-Methyl-2-pentanone	ND	5.00		µg/L	1	3/16/2023 2:08:00 AM
Acetone	ND	5.00		µg/L	1	3/16/2023 2:08:00 AM
Benzene	ND	0.500		µg/L	1	3/16/2023 2:08:00 AM
Bromobenzene	ND	0.500		µg/L	1	3/16/2023 2:08:00 AM
Bromodichloromethane	ND	0.500		µg/L	1	3/16/2023 2:08:00 AM
Bromoform	ND	0.500		µg/L	1	3/16/2023 10:12:00 PM
Bromomethane	ND	1.00		µg/L	1	3/16/2023 2:08:00 AM
Carbon tetrachloride	ND	0.500		µg/L	1	3/16/2023 2:08:00 AM
Chlorobenzene	ND	0.500		µg/L	1	3/16/2023 2:08:00 AM
Chlorobromomethane	ND	0.500		µg/L	1	3/16/2023 2:08:00 AM
Chlorodibromomethane	ND	0.500		µg/L	1	3/16/2023 2:08:00 AM
Chloroethane	ND	0.500		µg/L	1	3/16/2023 2:08:00 AM
Chloroform	ND	0.500		µg/L	1	3/16/2023 2:08:00 AM
Chloromethane	ND	0.500		µg/L	1	3/16/2023 2:08:00 AM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	3/16/2023 2:08:00 AM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	3/16/2023 2:08:00 AM
Dibromomethane	ND	0.500		µg/L	1	3/16/2023 2:08:00 AM
Dichlorodifluoromethane	ND	0.500		µg/L	1	3/16/2023 2:08:00 AM

<b>Qualifiers:</b>	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
	J	Analyte detected below quantitation limits		

Original



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# Analytical Report

(consolidated)

WO#: 23030988

Date Reported: 3/22/2023

**CLIENT:** OhioEPA-DDAGW  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030988-003  
**Client Sample ID:** PW-203 Nulf Well

**Collection Date:** 3/14/2023 12:35:00 PM

**Matrix:** DRINKING WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DRINKING WATER VOCS (EPA 524.2)</b>				<b>E524.2</b>	Analyst: <b>ALS</b>	
<b>VOC-GC/MS (524.2)</b>						
Ethylbenzene	ND	0.500		µg/L	1	3/16/2023 2:08:00 AM
Hexachloro-1,3-butadiene	ND	0.500		µg/L	1	3/16/2023 2:08:00 AM
Isopropylbenzene	ND	0.500		µg/L	1	3/16/2023 2:08:00 AM
m,p-Xylene	ND	0.500		µg/L	1	3/16/2023 2:08:00 AM
Methylene chloride	ND	0.500		µg/L	1	3/16/2023 2:08:00 AM
MTBE	ND	0.500		µg/L	1	3/16/2023 2:08:00 AM
n-Butylbenzene	ND	0.500		µg/L	1	3/16/2023 2:08:00 AM
n-Propylbenzene	ND	0.500		µg/L	1	3/16/2023 2:08:00 AM
o-Xylene	ND	0.500		µg/L	1	3/16/2023 2:08:00 AM
p-Isopropyltoluene	ND	0.500		µg/L	1	3/16/2023 2:08:00 AM
sec-Butylbenzene	ND	0.500		µg/L	1	3/16/2023 2:08:00 AM
Styrene	ND	0.500		µg/L	1	3/16/2023 2:08:00 AM
Tert-amyl methyl ether	ND	0.500		µg/L	1	3/16/2023 2:08:00 AM
Tert-butyl Alcohol	ND	5.00		µg/L	1	3/16/2023 2:08:00 AM
tert-Butylbenzene	ND	0.500		µg/L	1	3/16/2023 2:08:00 AM
Tetrachloroethene	ND	0.500		µg/L	1	3/16/2023 2:08:00 AM
Toluene	ND	0.500		µg/L	1	3/16/2023 2:08:00 AM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	3/16/2023 2:08:00 AM
trans-1,3-Dichloropropene	ND	0.500		µg/L	1	3/16/2023 2:08:00 AM
Trichloroethene	ND	0.500		µg/L	1	3/16/2023 2:08:00 AM
Trichlorofluoromethane	ND	0.500		µg/L	1	3/16/2023 2:08:00 AM
Vinyl chloride	ND	0.500		µg/L	1	3/16/2023 2:08:00 AM
Xylenes, Total	ND	0.500		µg/L	1	3/16/2023 2:08:00 AM
Surr: 1,2-Dichlorobenzene-d4	82.8	70 - 130		%Rec	1	3/16/2023 2:08:00 AM
Surr: 1,2-Dichlorobenzene-d4	86.1	70 - 130		%Rec	1	3/16/2023 10:12:00 PM
Surr: 4-Bromofluorobenzene	85.3	70 - 130		%Rec	1	3/16/2023 10:12:00 PM
Surr: 4-Bromofluorobenzene	80.9	70 - 130		%Rec	1	3/16/2023 2:08:00 AM

<b>VOC ANALYSIS (8260D)</b>				<b>SW8260</b>	Analyst: <b>ZDA</b>	
<b>VOC BY GC/MS (8260D)</b>						
Freon-113	ND	5.00		µg/L	1	3/16/2023 7:26:00 PM
1,3-Butadiene	ND	5.00		µg/L	1	3/15/2023 5:51:00 PM
1,4-Dioxane	ND	25.0		µg/L	1	3/15/2023 5:51:00 PM
2,2-Dichloropropane	ND	5.00		µg/L	1	3/15/2023 5:51:00 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	
J	Analyte detected below quantitation limits					

Original





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# Analytical Report

(consolidated)

WO#: 23030988

Date Reported: 3/22/2023

**CLIENT:** OhioEPA-DDAGW  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030988-003  
**Client Sample ID:** PW-203 Nulf Well

**Collection Date:** 3/14/2023 12:35:00 PM

**Matrix:** DRINKING WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>VOC ANALYSIS (8260D)</b>				<b>SW8260</b>	Analyst: ZDA	
<b>VOC BY GC/MS (8260D)</b>						
2-Butanone	ND	25.0		µg/L	1	3/15/2023 5:51:00 PM
2-Nitropropane	ND	50.0		µg/L	1	3/15/2023 5:51:00 PM
Acrylonitrile (2-propenenitrile)	ND	30.0		µg/L	1	3/15/2023 5:51:00 PM
Allyl chloride	ND	5.00		µg/L	1	3/15/2023 5:51:00 PM
Carbon disulfide	ND	5.00		µg/L	1	3/15/2023 5:51:00 PM
Chloroprene	ND	5.00		µg/L	1	3/15/2023 5:51:00 PM
Cyclohexanone	ND	5.00		µg/L	1	3/15/2023 5:51:00 PM
Ethyl Ether	ND	10.0		µg/L	1	3/15/2023 5:51:00 PM
Epichlorohydrin	ND	20.0		µg/L	1	3/15/2023 5:51:00 PM
ETBE	ND	5.00		µg/L	1	3/15/2023 5:51:00 PM
Ethanol	ND	20.0		µg/L	1	3/15/2023 5:51:00 PM
Ethyl acrylate	ND	5.00		µg/L	1	3/15/2023 5:51:00 PM
Ethyl methacrylate	ND	5.00		µg/L	1	3/15/2023 5:51:00 PM
Hexachloroethane	ND	5.00		µg/L	1	3/15/2023 5:51:00 PM
Diisopropyl ether (DIPE)	ND	5.00		µg/L	1	3/15/2023 5:51:00 PM
Methacrylonitrile	ND	5.00		µg/L	1	3/15/2023 5:51:00 PM
Methyl acrylate	ND	5.00		µg/L	1	3/15/2023 5:51:00 PM
Methyl methacrylate	ND	5.00		µg/L	1	3/15/2023 5:51:00 PM
Propionitrile	ND	5.00		µg/L	1	3/15/2023 5:51:00 PM
trans-1,4-Dichloro-2-butene	ND	5.00		µg/L	1	3/15/2023 5:51:00 PM
Vinyl acetate	ND	5.00		µg/L	1	3/15/2023 5:51:00 PM
1,2,3-Trimethylbenzene	ND	5.00		µg/L	1	3/15/2023 5:51:00 PM
Surr: 4-Bromofluorobenzene	97.0	70 - 130		%Rec	1	3/15/2023 5:51:00 PM
Surr: 4-Bromofluorobenzene	100	70 - 130		%Rec	1	3/16/2023 7:26:00 PM
Surr: Dibromofluoromethane	104	70 - 130		%Rec	1	3/15/2023 5:51:00 PM
Surr: Dibromofluoromethane	97.3	70 - 130		%Rec	1	3/16/2023 7:26:00 PM
Surr: Toluene-d8	99.0	70 - 130		%Rec	1	3/15/2023 5:51:00 PM
Surr: Toluene-d8	100	70 - 130		%Rec	1	3/16/2023 7:26:00 PM

<b>VOC TENTATIVELY IDENTIFIED COMPOUNDS (TICS)</b>				<b>SW8260</b>	Analyst: ZDA	
TIC: 1-Chlorobutane	ND		J	µg/L	1	3/15/2023 5:51:00 PM
TIC: 1-Methylnaphthalene	ND		J	µg/L	1	3/15/2023 5:51:00 PM
TIC: 2-Butyloxyethyl acetate	ND		J	µg/L	1	3/15/2023 5:51:00 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			
J	Analyte detected below quantitation limits					

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# Analytical Report

(consolidated)

WO#: 23030988

Date Reported: 3/22/2023

**CLIENT:** OhioEPA-DDAGW **Collection Date:** 3/14/2023 12:35:00 PM  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030988-003 **Matrix:** DRINKING WATER  
**Client Sample ID:** PW-203 Nulf Well

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**VOC TENTATIVELY IDENTIFIED COMPOUNDS (TICS)**

**SW8260**

Analyst: ZDA

TIC: 2-Ethylhexyl acrylate	ND	J		µg/L	1	3/15/2023 5:51:00 PM
TIC: Benzyl chloride	ND	J		µg/L	1	3/15/2023 5:51:00 PM
TIC: Bromoethane	ND	J		µg/L	1	3/15/2023 5:51:00 PM
TIC: Chloroacetonitrile	ND	J		µg/L	1	3/15/2023 5:51:00 PM
TIC: n-Butyl acrylate	ND	J		µg/L	1	3/15/2023 5:51:00 PM
TIC: Pentachloroethane	ND	J		µg/L	1	3/15/2023 5:51:00 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
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# Analytical Report

(consolidated)

WO#: 23030988

Date Reported: 3/22/2023

**CLIENT:** OhioEPA-DDAGW **Collection Date:** 3/14/2023 1:20:00 PM  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030988-004 **Matrix:** DRINKING WATER  
**Client Sample ID:** PW-204 Harding Well

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>GLYCOLS (8015)</b>				<b>SW8015C</b>	Analyst: <b>JDB</b>	
Diethylene glycol	ND	5000		µg/L	1	3/16/2023 6:12:00 PM
Ethylene glycol	ND	5000		µg/L	1	3/16/2023 6:12:00 PM
Propylene glycol	ND	5000		µg/L	1	3/16/2023 6:12:00 PM
Triethylene glycol	ND	5000		µg/L	1	3/16/2023 6:12:00 PM
<b>EPA504.-DW</b>				<b>E504.1</b>	<b>E504.1</b>	Analyst: <b>PGP</b>
<b>EDB, DBCP, 123TCP BY GC (EPA 504.1)</b>						
Dibromochloropropane	ND	0.0400		µg/L	1	3/17/2023 4:13:00 AM
Ethylene dibromide	ND	0.0200		µg/L	1	3/17/2023 4:13:00 AM
<b>DRINKING WATER ORGANIC COMPOUNDS (EPA 525)</b>				<b>E525</b>	<b>525</b>	Analyst: <b>CSS</b>
<b>SYNTHETIC ORGANIC COMPOUNDS BY GC/MS (EPA 525.3)</b>						
2,4-Dinitrotoluene	ND	0.198	QL-,QL-	µg/L	1	3/21/2023 4:36:00 AM
Acenaphthylene	ND	0.0990		µg/L	1	3/21/2023 4:36:00 AM
Anthracene	ND	0.0990	QL-,QL-	µg/L	1	3/21/2023 4:36:00 AM
Benzo(a)anthracene	ND	0.0990		µg/L	1	3/21/2023 4:36:00 AM
Benzo(a)pyrene	ND	0.0990		µg/L	1	3/21/2023 4:36:00 AM
Benzo(b)fluoranthene	ND	0.0990		µg/L	1	3/21/2023 4:36:00 AM
Benzo(g,h,i)perylene	ND	0.0990		µg/L	1	3/21/2023 4:36:00 AM
Benzo(k)fluoranthene	ND	0.0990	QL-,QL-	µg/L	1	3/21/2023 4:36:00 AM
Bis(2-ethylhexyl) phthalate	0.168	0.198	J	µg/L	1	3/21/2023 4:36:00 AM
Butyl benzyl phthalate	ND	0.198	QL-,QL-	µg/L	1	3/21/2023 4:36:00 AM
Chrysene	ND	0.0990	QL-,QL-	µg/L	1	3/21/2023 4:36:00 AM
Dibenz(a,h)anthracene	ND	0.0990		µg/L	1	3/21/2023 4:36:00 AM
Diethyl phthalate	ND	0.0990		µg/L	1	3/21/2023 4:36:00 AM
Dimethyl phthalate	ND	0.198		µg/L	1	3/21/2023 4:36:00 AM
Di-n-butyl phthalate	ND	0.198		µg/L	1	3/21/2023 4:36:00 AM
Fluorene	ND	0.0990	QL-,QL-	µg/L	1	3/21/2023 4:36:00 AM
Hexachlorobenzene	ND	0.0990		µg/L	1	3/21/2023 4:36:00 AM
Hexachlorocyclopentadiene	ND	0.0990		µg/L	1	3/21/2023 4:36:00 AM
Indeno(1,2,3-cd)pyrene	ND	0.990		µg/L	1	3/21/2023 4:36:00 AM
Isophorone	ND	0.198		µg/L	1	3/21/2023 4:36:00 AM
Phenanthrene	ND	0.0990	QL-,QL-	µg/L	1	3/21/2023 4:36:00 AM
Pyrene	ND	0.0990	QL-,QL-	µg/L	1	3/21/2023 4:36:00 AM

<b>Qualifiers:</b>	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
	J	Analyte detected below quantitation limits		

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# Analytical Report

(consolidated)

WO#: 23030988

Date Reported: 3/22/2023

**CLIENT:** OhioEPA-DDAGW **Collection Date:** 3/14/2023 1:20:00 PM  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030988-004 **Matrix:** DRINKING WATER  
**Client Sample ID:** PW-204 Harding Well

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

Surr: 1,3-Dimethyl-2-nitrobenzene	62.2	70 - 130	S	%Rec	1	3/21/2023 4:36:00 AM
Surr: Benzo(a)pyrene-d12	78.8	70 - 130		%Rec	1	3/21/2023 4:36:00 AM
Surr: Triphenyl phosphate	95.0	70 - 130		%Rec	1	3/21/2023 4:36:00 AM

SVOC BY SW8270E	Result	PQL	Qual	Units	DF	Date Analyzed
<b>SVOC BY 8270E</b>					<b>SW8270</b>	<b>SW3510C</b>
						Analyst: <b>MES</b>

2,6-Dinitrotoluene	ND	1.00		µg/L	1	3/18/2023 4:45:00 PM
2-Butoxyethanol	ND	30.0		µg/L	1	3/18/2023 4:45:00 PM
2-Methylnaphthalene	ND	1.00		µg/L	1	3/18/2023 4:45:00 PM
3,3'-Dichlorobenzidine	ND	10.0	QC+	µg/L	1	3/18/2023 4:45:00 PM
4-Nitrophenol	ND	5.00	QC+	µg/L	1	3/18/2023 4:45:00 PM
Acenaphthene	ND	1.00		µg/L	1	3/18/2023 4:45:00 PM
Benzoic acid	ND	16.0	QC+	µg/L	1	3/18/2023 4:45:00 PM
Bis(2-chloroethyl) ether	ND	1.00		µg/L	1	3/18/2023 4:45:00 PM
Di-n-octyl phthalate	ND	5.00	QC+QL+	µg/L	1	3/18/2023 4:45:00 PM
Fluoranthene	ND	1.00		µg/L	1	3/18/2023 4:45:00 PM
Naphthalene	ND	1.00		µg/L	1	3/18/2023 4:45:00 PM
Phenol	ND	1.00		µg/L	1	3/18/2023 4:45:00 PM
3&4-Methylphenol	ND	1.00		µg/L	1	3/18/2023 4:45:00 PM
Surr: 2-Fluorophenol	43.2	20 - 130		%Rec	1	3/18/2023 4:45:00 PM
Surr: Phenol-d6	28.2	20 - 130		%Rec	1	3/18/2023 4:45:00 PM
Surr: Nitrobenzene-d5	56.5	27.4 - 130		%Rec	1	3/18/2023 4:45:00 PM
Surr: 2,4,6-Tribromophenol	75.2	54.3 - 133		%Rec	1	3/18/2023 4:45:00 PM
Surr: 2-Fluorobiphenyl	53.6	25.6 - 130		%Rec	1	3/18/2023 4:45:00 PM
Surr: p-Terphenyl-d14	77.1	20 - 181		%Rec	1	3/18/2023 4:45:00 PM

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

1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	3/16/2023 2:37:00 AM
1,1,1-Trichloroethane	ND	0.500		µg/L	1	3/16/2023 2:37:00 AM
1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	3/16/2023 2:37:00 AM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	3/16/2023 2:37:00 AM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/16/2023 2:37:00 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	3/16/2023 2:37:00 AM

<b>Qualifiers:</b>	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
	J	Analyte detected below quantitation limits		

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# Analytical Report

(consolidated)

WO#: 23030988

Date Reported: 3/22/2023

**CLIENT:** OhioEPA-DDAGW  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030988-004  
**Client Sample ID:** PW-204 Harding Well

**Collection Date:** 3/14/2023 1:20:00 PM

**Matrix:** DRINKING WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DRINKING WATER VOCS (EPA 524.2)</b>				<b>E524.2</b>	Analyst: ALS	
<b>VOC-GC/MS (524.2)</b>						
1,1-Dichloropropene	ND	0.500		µg/L	1	3/16/2023 2:37:00 AM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	3/16/2023 2:37:00 AM
1,2,3-Trichloropropane	ND	0.500		µg/L	1	3/16/2023 2:37:00 AM
1,2,4-Trichlorobenzene	ND	0.500		µg/L	1	3/16/2023 2:37:00 AM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	3/16/2023 2:37:00 AM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	3/16/2023 2:37:00 AM
1,2-Dichloroethane	ND	0.500		µg/L	1	3/16/2023 2:37:00 AM
1,2-Dichloropropane	ND	0.500		µg/L	1	3/16/2023 2:37:00 AM
1,3,5-Trimethylbenzene	ND	0.500		µg/L	1	3/16/2023 2:37:00 AM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	3/16/2023 2:37:00 AM
1,3-Dichloropropane	ND	0.500		µg/L	1	3/16/2023 2:37:00 AM
1,3-Dichloropropene, Total	ND	1.00		µg/L	1	3/16/2023 2:37:00 AM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	3/16/2023 2:37:00 AM
2-Chlorotoluene	ND	0.500		µg/L	1	3/16/2023 2:37:00 AM
2-Hexanone	ND	5.00		µg/L	1	3/16/2023 2:37:00 AM
4-Chlorotoluene	ND	0.500		µg/L	1	3/16/2023 2:37:00 AM
4-Methyl-2-pentanone	ND	5.00		µg/L	1	3/16/2023 2:37:00 AM
Acetone	ND	5.00		µg/L	1	3/16/2023 2:37:00 AM
Benzene	ND	0.500		µg/L	1	3/16/2023 2:37:00 AM
Bromobenzene	ND	0.500		µg/L	1	3/16/2023 2:37:00 AM
Bromodichloromethane	ND	0.500		µg/L	1	3/16/2023 2:37:00 AM
Bromoform	ND	0.500		µg/L	1	3/16/2023 10:41:00 PM
Bromomethane	ND	1.00		µg/L	1	3/16/2023 2:37:00 AM
Carbon tetrachloride	ND	0.500		µg/L	1	3/16/2023 2:37:00 AM
Chlorobenzene	ND	0.500		µg/L	1	3/16/2023 2:37:00 AM
Chlorobromomethane	ND	0.500		µg/L	1	3/16/2023 2:37:00 AM
Chlorodibromomethane	ND	0.500		µg/L	1	3/16/2023 2:37:00 AM
Chloroethane	ND	0.500		µg/L	1	3/16/2023 2:37:00 AM
Chloroform	ND	0.500		µg/L	1	3/16/2023 2:37:00 AM
Chloromethane	ND	0.500		µg/L	1	3/16/2023 2:37:00 AM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	3/16/2023 2:37:00 AM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	3/16/2023 2:37:00 AM
Dibromomethane	ND	0.500		µg/L	1	3/16/2023 2:37:00 AM
Dichlorodifluoromethane	ND	0.500		µg/L	1	3/16/2023 2:37:00 AM

<b>Qualifiers:</b>	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
	J	Analyte detected below quantitation limits		

Original



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

# Analytical Report

(consolidated)

WO#: 23030988

Date Reported: 3/22/2023

**CLIENT:** OhioEPA-DDAGW **Collection Date:** 3/14/2023 1:20:00 PM  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030988-004 **Matrix:** DRINKING WATER  
**Client Sample ID:** PW-204 Harding Well

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DRINKING WATER VOCS (EPA 524.2)</b>				<b>E524.2</b>	Analyst: ALS	
<b>VOC-GC/MS (524.2)</b>						
Ethylbenzene	ND	0.500		µg/L	1	3/16/2023 2:37:00 AM
Hexachloro-1,3-butadiene	ND	0.500		µg/L	1	3/16/2023 2:37:00 AM
Isopropylbenzene	ND	0.500		µg/L	1	3/16/2023 2:37:00 AM
m,p-Xylene	ND	0.500		µg/L	1	3/16/2023 2:37:00 AM
Methylene chloride	ND	0.500		µg/L	1	3/16/2023 2:37:00 AM
MTBE	ND	0.500		µg/L	1	3/16/2023 2:37:00 AM
n-Butylbenzene	ND	0.500		µg/L	1	3/16/2023 2:37:00 AM
n-Propylbenzene	ND	0.500		µg/L	1	3/16/2023 2:37:00 AM
o-Xylene	ND	0.500		µg/L	1	3/16/2023 2:37:00 AM
p-Isopropyltoluene	ND	0.500		µg/L	1	3/16/2023 2:37:00 AM
sec-Butylbenzene	ND	0.500		µg/L	1	3/16/2023 2:37:00 AM
Styrene	ND	0.500		µg/L	1	3/16/2023 2:37:00 AM
Tert-amyl methyl ether	ND	0.500		µg/L	1	3/16/2023 2:37:00 AM
Tert-butyl Alcohol	ND	5.00		µg/L	1	3/16/2023 2:37:00 AM
tert-Butylbenzene	ND	0.500		µg/L	1	3/16/2023 2:37:00 AM
Tetrachloroethene	ND	0.500		µg/L	1	3/16/2023 2:37:00 AM
Toluene	ND	0.500		µg/L	1	3/16/2023 2:37:00 AM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	3/16/2023 2:37:00 AM
trans-1,3-Dichloropropene	ND	0.500		µg/L	1	3/16/2023 2:37:00 AM
Trichloroethene	ND	0.500		µg/L	1	3/16/2023 2:37:00 AM
Trichlorofluoromethane	ND	0.500		µg/L	1	3/16/2023 2:37:00 AM
Vinyl chloride	ND	0.500		µg/L	1	3/16/2023 2:37:00 AM
Xylenes, Total	ND	0.500		µg/L	1	3/16/2023 2:37:00 AM
Surr: 1,2-Dichlorobenzene-d4	82.9	70 - 130		%Rec	1	3/16/2023 2:37:00 AM
Surr: 1,2-Dichlorobenzene-d4	82.9	70 - 130		%Rec	1	3/16/2023 10:41:00 PM
Surr: 4-Bromofluorobenzene	80.9	70 - 130		%Rec	1	3/16/2023 10:41:00 PM
Surr: 4-Bromofluorobenzene	78.8	70 - 130		%Rec	1	3/16/2023 2:37:00 AM

<b>VOC ANALYSIS (8260D)</b>				<b>SW8260</b>	Analyst: ZDA	
<b>VOC BY GC/MS (8260D)</b>						
Freon-113	ND	5.00		µg/L	1	3/16/2023 7:51:00 PM
1,3-Butadiene	ND	5.00		µg/L	1	3/15/2023 6:15:00 PM
1,4-Dioxane	ND	25.0		µg/L	1	3/15/2023 6:15:00 PM
2,2-Dichloropropane	ND	5.00		µg/L	1	3/15/2023 6:15:00 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		
J	Analyte detected below quantitation limits					

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# Analytical Report

(consolidated)

WO#: 23030988

Date Reported: 3/22/2023

**CLIENT:** OhioEPA-DDAGW  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030988-004  
**Client Sample ID:** PW-204 Harding Well

**Collection Date:** 3/14/2023 1:20:00 PM

**Matrix:** DRINKING WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>VOC ANALYSIS (8260D)</b>				<b>SW8260</b>	Analyst: ZDA	
<b>VOC BY GC/MS (8260D)</b>						
2-Butanone	ND	25.0		µg/L	1	3/15/2023 6:15:00 PM
2-Nitropropane	ND	50.0		µg/L	1	3/15/2023 6:15:00 PM
Acrylonitrile (2-propenenitrile)	ND	30.0		µg/L	1	3/15/2023 6:15:00 PM
Allyl chloride	ND	5.00		µg/L	1	3/15/2023 6:15:00 PM
Carbon disulfide	ND	5.00		µg/L	1	3/15/2023 6:15:00 PM
Chloroprene	ND	5.00		µg/L	1	3/15/2023 6:15:00 PM
Cyclohexanone	ND	5.00		µg/L	1	3/15/2023 6:15:00 PM
Ethyl Ether	ND	10.0		µg/L	1	3/15/2023 6:15:00 PM
Epichlorohydrin	ND	20.0		µg/L	1	3/15/2023 6:15:00 PM
ETBE	ND	5.00		µg/L	1	3/15/2023 6:15:00 PM
Ethanol	ND	20.0		µg/L	1	3/15/2023 6:15:00 PM
Ethyl acrylate	ND	5.00		µg/L	1	3/15/2023 6:15:00 PM
Ethyl methacrylate	ND	5.00		µg/L	1	3/15/2023 6:15:00 PM
Hexachloroethane	ND	5.00		µg/L	1	3/15/2023 6:15:00 PM
Diisopropyl ether (DIPE)	ND	5.00		µg/L	1	3/15/2023 6:15:00 PM
Methacrylonitrile	ND	5.00		µg/L	1	3/15/2023 6:15:00 PM
Methyl acrylate	ND	5.00		µg/L	1	3/15/2023 6:15:00 PM
Methyl methacrylate	ND	5.00		µg/L	1	3/15/2023 6:15:00 PM
Propionitrile	ND	5.00		µg/L	1	3/15/2023 6:15:00 PM
trans-1,4-Dichloro-2-butene	ND	5.00		µg/L	1	3/15/2023 6:15:00 PM
Vinyl acetate	ND	5.00		µg/L	1	3/15/2023 6:15:00 PM
1,2,3-Trimethylbenzene	ND	5.00		µg/L	1	3/15/2023 6:15:00 PM
Surr: 4-Bromofluorobenzene	96.7	70 - 130		%Rec	1	3/15/2023 6:15:00 PM
Surr: 4-Bromofluorobenzene	98.9	70 - 130		%Rec	1	3/16/2023 7:51:00 PM
Surr: Dibromofluoromethane	103	70 - 130		%Rec	1	3/15/2023 6:15:00 PM
Surr: Dibromofluoromethane	99.9	70 - 130		%Rec	1	3/16/2023 7:51:00 PM
Surr: Toluene-d8	99.9	70 - 130		%Rec	1	3/15/2023 6:15:00 PM
Surr: Toluene-d8	101	70 - 130		%Rec	1	3/16/2023 7:51:00 PM

<b>VOC TENTATIVELY IDENTIFIED COMPOUNDS (TICS)</b>				<b>SW8260</b>	Analyst: ZDA	
TIC: 1-Chlorobutane	ND		J	µg/L	1	3/15/2023 6:15:00 PM
TIC: 1-Methylnaphthalene	ND		J	µg/L	1	3/15/2023 6:15:00 PM
TIC: 2-Butyloxyethyl acetate	ND		J	µg/L	1	3/15/2023 6:15:00 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			
J	Analyte detected below quantitation limits					

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# Analytical Report

(consolidated)

WO#: 23030988

Date Reported: 3/22/2023

**CLIENT:** OhioEPA-DDAGW **Collection Date:** 3/14/2023 1:20:00 PM  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030988-004 **Matrix:** DRINKING WATER  
**Client Sample ID:** PW-204 Harding Well

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**VOC TENTATIVELY IDENTIFIED COMPOUNDS (TICS)**

**SW8260**

Analyst: ZDA

TIC: 2-Ethylhexyl acrylate	ND	J		µg/L	1	3/15/2023 6:15:00 PM
TIC: Benzyl chloride	ND	J		µg/L	1	3/15/2023 6:15:00 PM
TIC: Bromoethane	ND	J		µg/L	1	3/15/2023 6:15:00 PM
TIC: Chloroacetonitrile	ND	J		µg/L	1	3/15/2023 6:15:00 PM
TIC: n-Butyl acrylate	ND	J		µg/L	1	3/15/2023 6:15:00 PM
TIC: Pentachloroethane	ND	J		µg/L	1	3/15/2023 6:15:00 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
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# Analytical Report

(consolidated)

WO#: 23030988

Date Reported: 3/22/2023

**CLIENT:** OhioEPA-DDAGW **Collection Date:** 3/14/2023 1:50:00 PM  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030988-005 **Matrix:** DRINKING WATER  
**Client Sample ID:** PW-205 Zuch Well

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>GLYCOLS (8015)</b>		<b>SW8015C</b>			Analyst: <b>JDB</b>	
Diethylene glycol	ND	5000		µg/L	1	3/16/2023 7:08:00 PM
Ethylene glycol	ND	5000		µg/L	1	3/16/2023 7:08:00 PM
Propylene glycol	ND	5000		µg/L	1	3/16/2023 7:08:00 PM
Triethylene glycol	ND	5000		µg/L	1	3/16/2023 7:08:00 PM
<b>EPA504.-DW</b>		<b>E504.1</b>			Analyst: <b>PGP</b>	
<b>EDB, DBCP, 123TCP BY GC (EPA 504.1)</b>						
Dibromochloropropane	ND	0.0400		µg/L	1	3/17/2023 4:34:00 AM
Ethylene dibromide	ND	0.0200		µg/L	1	3/17/2023 4:34:00 AM
<b>DRINKING WATER ORGANIC COMPOUNDS (EPA 525)</b>		<b>E525</b>			Analyst: <b>CSS</b>	
<b>SYNTHETIC ORGANIC COMPOUNDS BY GC/MS (EPA 525.3)</b>						
2,4-Dinitrotoluene	ND	0.196	QL-,QL-	µg/L	1	3/21/2023 5:22:00 AM
Acenaphthylene	ND	0.0980		µg/L	1	3/21/2023 5:22:00 AM
Anthracene	ND	0.0980	QL-,QL-	µg/L	1	3/21/2023 5:22:00 AM
Benzo(a)anthracene	ND	0.0980		µg/L	1	3/21/2023 5:22:00 AM
Benzo(a)pyrene	ND	0.0980		µg/L	1	3/21/2023 5:22:00 AM
Benzo(b)fluoranthene	ND	0.0980		µg/L	1	3/21/2023 5:22:00 AM
Benzo(g,h,i)perylene	ND	0.0980		µg/L	1	3/21/2023 5:22:00 AM
Benzo(k)fluoranthene	ND	0.0980	QL-,QL-	µg/L	1	3/21/2023 5:22:00 AM
Bis(2-ethylhexyl) phthalate	0.196	0.196		µg/L	1	3/21/2023 5:22:00 AM
Butyl benzyl phthalate	ND	0.196	QL-,QL-	µg/L	1	3/21/2023 5:22:00 AM
Chrysene	ND	0.0980	QL-,QL-	µg/L	1	3/21/2023 5:22:00 AM
Dibenz(a,h)anthracene	ND	0.0980		µg/L	1	3/21/2023 5:22:00 AM
Diethyl phthalate	ND	0.0980		µg/L	1	3/21/2023 5:22:00 AM
Dimethyl phthalate	ND	0.196		µg/L	1	3/21/2023 5:22:00 AM
Di-n-butyl phthalate	0.461	0.196		µg/L	1	3/21/2023 5:22:00 AM
Fluorene	ND	0.0980	QL-,QL-	µg/L	1	3/21/2023 5:22:00 AM
Hexachlorobenzene	ND	0.0980		µg/L	1	3/21/2023 5:22:00 AM
Hexachlorocyclopentadiene	ND	0.0980		µg/L	1	3/21/2023 5:22:00 AM
Indeno(1,2,3-cd)pyrene	ND	0.980		µg/L	1	3/21/2023 5:22:00 AM
Isophorone	ND	0.196		µg/L	1	3/21/2023 5:22:00 AM
Phenanthrene	ND	0.0980	QL-,QL-	µg/L	1	3/21/2023 5:22:00 AM
Pyrene	ND	0.0980	QL-,QL-	µg/L	1	3/21/2023 5:22:00 AM

<b>Qualifiers:</b>	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
	J	Analyte detected below quantitation limits		

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# Analytical Report

(consolidated)

WO#: 23030988

Date Reported: 3/22/2023

**CLIENT:** OhioEPA-DDAGW **Collection Date:** 3/14/2023 1:50:00 PM  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030988-005 **Matrix:** DRINKING WATER  
**Client Sample ID:** PW-205 Zuch Well

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

Surr: 1,3-Dimethyl-2-nitrobenzene	62.6	70 - 130	S	%Rec	1	3/21/2023 5:22:00 AM
Surr: Benzo(a)pyrene-d12	80.6	70 - 130		%Rec	1	3/21/2023 5:22:00 AM
Surr: Triphenyl phosphate	94.0	70 - 130		%Rec	1	3/21/2023 5:22:00 AM

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

2,6-Dinitrotoluene	ND	0.980	µg/L	1	3/18/2023 5:25:00 PM
2-Butoxyethanol	ND	29.4	µg/L	1	3/18/2023 5:25:00 PM
2-Methylnaphthalene	ND	0.980	µg/L	1	3/18/2023 5:25:00 PM
3,3'-Dichlorobenzidine	ND	9.80	QC+ µg/L	1	3/18/2023 5:25:00 PM
4-Nitrophenol	ND	4.90	QC+ µg/L	1	3/18/2023 5:25:00 PM
Acenaphthene	ND	0.980	µg/L	1	3/18/2023 5:25:00 PM
Benzoic acid	ND	15.7	QC+ µg/L	1	3/18/2023 5:25:00 PM
Bis(2-chloroethyl) ether	ND	0.980	µg/L	1	3/18/2023 5:25:00 PM
Di-n-octyl phthalate	ND	4.90	QC+QL+ µg/L	1	3/18/2023 5:25:00 PM
Fluoranthene	ND	0.980	µg/L	1	3/18/2023 5:25:00 PM
Naphthalene	ND	0.980	µg/L	1	3/18/2023 5:25:00 PM
Phenol	ND	0.980	µg/L	1	3/18/2023 5:25:00 PM
3&4-Methylphenol	ND	0.980	µg/L	1	3/18/2023 5:25:00 PM
Surr: 2-Fluorophenol	43.9	20 - 130	%Rec	1	3/18/2023 5:25:00 PM
Surr: Phenol-d6	25.8	20 - 130	%Rec	1	3/18/2023 5:25:00 PM
Surr: Nitrobenzene-d5	53.3	27.4 - 130	%Rec	1	3/18/2023 5:25:00 PM
Surr: 2,4,6-Tribromophenol	71.9	54.3 - 133	%Rec	1	3/18/2023 5:25:00 PM
Surr: 2-Fluorobiphenyl	51.5	25.6 - 130	%Rec	1	3/18/2023 5:25:00 PM
Surr: p-Terphenyl-d14	72.6	20 - 181	%Rec	1	3/18/2023 5:25:00 PM

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

1,1,1,2-Tetrachloroethane	ND	0.500	µg/L	1	3/16/2023 3:06:00 AM
1,1,1-Trichloroethane	ND	0.500	µg/L	1	3/16/2023 3:06:00 AM
1,1,2,2-Tetrachloroethane	ND	0.500	µg/L	1	3/16/2023 3:06:00 AM
1,1,2-Trichloroethane	ND	0.500	µg/L	1	3/16/2023 3:06:00 AM
1,1-Dichloroethane	ND	0.500	µg/L	1	3/16/2023 3:06:00 AM
1,1-Dichloroethene	ND	0.500	µg/L	1	3/16/2023 3:06:00 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
	J	Analyte detected below quantitation limits		

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# Analytical Report

(consolidated)

WO#: 23030988

Date Reported: 3/22/2023

**CLIENT:** OhioEPA-DDAGW  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030988-005  
**Client Sample ID:** PW-205 Zuch Well

**Collection Date:** 3/14/2023 1:50:00 PM

**Matrix:** DRINKING WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DRINKING WATER VOCS (EPA 524.2)</b>				<b>E524.2</b>	Analyst: ALS	
<b>VOC-GC/MS (524.2)</b>						
1,1-Dichloropropene	ND	0.500		µg/L	1	3/16/2023 3:06:00 AM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	3/16/2023 3:06:00 AM
1,2,3-Trichloropropane	ND	0.500		µg/L	1	3/16/2023 3:06:00 AM
1,2,4-Trichlorobenzene	ND	0.500		µg/L	1	3/16/2023 3:06:00 AM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	3/16/2023 3:06:00 AM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	3/16/2023 3:06:00 AM
1,2-Dichloroethane	ND	0.500		µg/L	1	3/16/2023 3:06:00 AM
1,2-Dichloropropane	ND	0.500		µg/L	1	3/16/2023 3:06:00 AM
1,3,5-Trimethylbenzene	ND	0.500		µg/L	1	3/16/2023 3:06:00 AM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	3/16/2023 3:06:00 AM
1,3-Dichloropropane	ND	0.500		µg/L	1	3/16/2023 3:06:00 AM
1,3-Dichloropropene, Total	ND	1.00		µg/L	1	3/16/2023 3:06:00 AM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	3/16/2023 3:06:00 AM
2-Chlorotoluene	ND	0.500		µg/L	1	3/16/2023 3:06:00 AM
2-Hexanone	ND	5.00		µg/L	1	3/16/2023 3:06:00 AM
4-Chlorotoluene	ND	0.500		µg/L	1	3/16/2023 3:06:00 AM
4-Methyl-2-pentanone	ND	5.00		µg/L	1	3/16/2023 3:06:00 AM
Acetone	ND	5.00		µg/L	1	3/16/2023 3:06:00 AM
Benzene	ND	0.500		µg/L	1	3/16/2023 3:06:00 AM
Bromobenzene	ND	0.500		µg/L	1	3/16/2023 3:06:00 AM
Bromodichloromethane	ND	0.500		µg/L	1	3/16/2023 3:06:00 AM
Bromoform	ND	0.500		µg/L	1	3/16/2023 11:10:00 PM
Bromomethane	ND	1.00		µg/L	1	3/16/2023 3:06:00 AM
Carbon tetrachloride	ND	0.500		µg/L	1	3/16/2023 3:06:00 AM
Chlorobenzene	ND	0.500		µg/L	1	3/16/2023 3:06:00 AM
Chlorobromomethane	ND	0.500		µg/L	1	3/16/2023 3:06:00 AM
Chlorodibromomethane	ND	0.500		µg/L	1	3/16/2023 3:06:00 AM
Chloroethane	ND	0.500		µg/L	1	3/16/2023 3:06:00 AM
Chloroform	ND	0.500		µg/L	1	3/16/2023 3:06:00 AM
Chloromethane	ND	0.500		µg/L	1	3/16/2023 3:06:00 AM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	3/16/2023 3:06:00 AM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	3/16/2023 3:06:00 AM
Dibromomethane	ND	0.500		µg/L	1	3/16/2023 3:06:00 AM
Dichlorodifluoromethane	ND	0.500		µg/L	1	3/16/2023 3:06:00 AM

<b>Qualifiers:</b>	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
	J	Analyte detected below quantitation limits		

Original



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

# Analytical Report

(consolidated)

WO#: 23030988

Date Reported: 3/22/2023

**CLIENT:** OhioEPA-DDAGW **Collection Date:** 3/14/2023 1:50:00 PM  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030988-005 **Matrix:** DRINKING WATER  
**Client Sample ID:** PW-205 Zuch Well

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DRINKING WATER VOCS (EPA 524.2)</b>				<b>E524.2</b>	Analyst: ALS	
<b>VOC-GC/MS (524.2)</b>						
Ethylbenzene	ND	0.500		µg/L	1	3/16/2023 3:06:00 AM
Hexachloro-1,3-butadiene	ND	0.500		µg/L	1	3/16/2023 3:06:00 AM
Isopropylbenzene	ND	0.500		µg/L	1	3/16/2023 3:06:00 AM
m,p-Xylene	ND	0.500		µg/L	1	3/16/2023 3:06:00 AM
Methylene chloride	ND	0.500		µg/L	1	3/16/2023 3:06:00 AM
MTBE	ND	0.500		µg/L	1	3/16/2023 3:06:00 AM
n-Butylbenzene	ND	0.500		µg/L	1	3/16/2023 3:06:00 AM
n-Propylbenzene	ND	0.500		µg/L	1	3/16/2023 3:06:00 AM
o-Xylene	ND	0.500		µg/L	1	3/16/2023 3:06:00 AM
p-Isopropyltoluene	ND	0.500		µg/L	1	3/16/2023 3:06:00 AM
sec-Butylbenzene	ND	0.500		µg/L	1	3/16/2023 3:06:00 AM
Styrene	ND	0.500		µg/L	1	3/16/2023 3:06:00 AM
Tert-amyl methyl ether	ND	0.500		µg/L	1	3/16/2023 3:06:00 AM
Tert-butyl Alcohol	ND	5.00		µg/L	1	3/16/2023 3:06:00 AM
tert-Butylbenzene	ND	0.500		µg/L	1	3/16/2023 3:06:00 AM
Tetrachloroethene	ND	0.500		µg/L	1	3/16/2023 3:06:00 AM
Toluene	ND	0.500		µg/L	1	3/16/2023 3:06:00 AM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	3/16/2023 3:06:00 AM
trans-1,3-Dichloropropene	ND	0.500		µg/L	1	3/16/2023 3:06:00 AM
Trichloroethene	ND	0.500		µg/L	1	3/16/2023 3:06:00 AM
Trichlorofluoromethane	ND	0.500		µg/L	1	3/16/2023 3:06:00 AM
Vinyl chloride	ND	0.500		µg/L	1	3/16/2023 3:06:00 AM
Xylenes, Total	ND	0.500		µg/L	1	3/16/2023 3:06:00 AM
Surr: 1,2-Dichlorobenzene-d4	83.8	70 - 130		%Rec	1	3/16/2023 3:06:00 AM
Surr: 1,2-Dichlorobenzene-d4	84.2	70 - 130		%Rec	1	3/16/2023 11:10:00 PM
Surr: 4-Bromofluorobenzene	81.8	70 - 130		%Rec	1	3/16/2023 11:10:00 PM
Surr: 4-Bromofluorobenzene	77.2	70 - 130		%Rec	1	3/16/2023 3:06:00 AM

<b>VOC ANALYSIS (8260D)</b>				<b>SW8260</b>	Analyst: ZDA	
<b>VOC BY GC/MS (8260D)</b>						
Freon-113	ND	5.00		µg/L	1	3/16/2023 8:15:00 PM
1,3-Butadiene	ND	5.00		µg/L	1	3/15/2023 6:39:00 PM
1,4-Dioxane	ND	25.0		µg/L	1	3/15/2023 6:39:00 PM
2,2-Dichloropropane	ND	5.00		µg/L	1	3/15/2023 6:39:00 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			
J	Analyte detected below quantitation limits					

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# Analytical Report

(consolidated)

WO#: 23030988

Date Reported: 3/22/2023

**CLIENT:** OhioEPA-DDAGW  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030988-005  
**Client Sample ID:** PW-205 Zuch Well

**Collection Date:** 3/14/2023 1:50:00 PM

**Matrix:** DRINKING WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>VOC ANALYSIS (8260D)</b>				<b>SW8260</b>	Analyst: ZDA	
<b>VOC BY GC/MS (8260D)</b>						
2-Butanone	ND	25.0		µg/L	1	3/15/2023 6:39:00 PM
2-Nitropropane	ND	50.0		µg/L	1	3/15/2023 6:39:00 PM
Acrylonitrile (2-propenenitrile)	ND	30.0		µg/L	1	3/15/2023 6:39:00 PM
Allyl chloride	ND	5.00		µg/L	1	3/15/2023 6:39:00 PM
Carbon disulfide	ND	5.00		µg/L	1	3/15/2023 6:39:00 PM
Chloroprene	ND	5.00		µg/L	1	3/15/2023 6:39:00 PM
Cyclohexanone	ND	5.00		µg/L	1	3/15/2023 6:39:00 PM
Ethyl Ether	ND	10.0		µg/L	1	3/15/2023 6:39:00 PM
Epichlorohydrin	ND	20.0		µg/L	1	3/15/2023 6:39:00 PM
ETBE	ND	5.00		µg/L	1	3/15/2023 6:39:00 PM
Ethanol	ND	20.0		µg/L	1	3/15/2023 6:39:00 PM
Ethyl acrylate	ND	5.00		µg/L	1	3/15/2023 6:39:00 PM
Ethyl methacrylate	ND	5.00		µg/L	1	3/15/2023 6:39:00 PM
Hexachloroethane	ND	5.00		µg/L	1	3/15/2023 6:39:00 PM
Diisopropyl ether (DIPE)	ND	5.00		µg/L	1	3/15/2023 6:39:00 PM
Methacrylonitrile	ND	5.00		µg/L	1	3/15/2023 6:39:00 PM
Methyl acrylate	ND	5.00		µg/L	1	3/15/2023 6:39:00 PM
Methyl methacrylate	ND	5.00		µg/L	1	3/15/2023 6:39:00 PM
Propionitrile	ND	5.00		µg/L	1	3/15/2023 6:39:00 PM
trans-1,4-Dichloro-2-butene	ND	5.00		µg/L	1	3/15/2023 6:39:00 PM
Vinyl acetate	ND	5.00		µg/L	1	3/15/2023 6:39:00 PM
1,2,3-Trimethylbenzene	ND	5.00		µg/L	1	3/15/2023 6:39:00 PM
Surr: 4-Bromofluorobenzene	94.6	70 - 130		%Rec	1	3/15/2023 6:39:00 PM
Surr: 4-Bromofluorobenzene	98.7	70 - 130		%Rec	1	3/16/2023 8:15:00 PM
Surr: Dibromofluoromethane	104	70 - 130		%Rec	1	3/15/2023 6:39:00 PM
Surr: Dibromofluoromethane	97.4	70 - 130		%Rec	1	3/16/2023 8:15:00 PM
Surr: Toluene-d8	97.8	70 - 130		%Rec	1	3/15/2023 6:39:00 PM
Surr: Toluene-d8	100	70 - 130		%Rec	1	3/16/2023 8:15:00 PM

<b>VOC TENTATIVELY IDENTIFIED COMPOUNDS (TICS)</b>				<b>SW8260</b>	Analyst: ZDA	
TIC: 1-Chlorobutane	ND		J	µg/L	1	3/15/2023 6:39:00 PM
TIC: 1-Methylnaphthalene	ND		J	µg/L	1	3/15/2023 6:39:00 PM
TIC: 2-Butyloxyethyl acetate	ND		J	µg/L	1	3/15/2023 6:39:00 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
	J	Analyte detected below quantitation limits		

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# Analytical Report

(consolidated)

WO#: **23030988**

Date Reported: **3/22/2023**

**CLIENT:** OhioEPA-DDAGW **Collection Date:** 3/14/2023 1:50:00 PM  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030988-005 **Matrix:** DRINKING WATER  
**Client Sample ID:** PW-205 Zuch Well

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**VOC TENTATIVELY IDENTIFIED COMPOUNDS (TICS)**

**SW8260**

Analyst: **ZDA**

TIC: 2-Ethylhexyl acrylate	ND	J		µg/L	1	3/15/2023 6:39:00 PM
TIC: Benzyl chloride	ND	J		µg/L	1	3/15/2023 6:39:00 PM
TIC: Bromoethane	ND	J		µg/L	1	3/15/2023 6:39:00 PM
TIC: Chloroacetonitrile	ND	J		µg/L	1	3/15/2023 6:39:00 PM
TIC: n-Butyl acrylate	ND	J		µg/L	1	3/15/2023 6:39:00 PM
TIC: Pentachloroethane	ND	J		µg/L	1	3/15/2023 6:39:00 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
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# Analytical Report

(consolidated)

WO#: 23030988

Date Reported: 3/22/2023

**CLIENT:** OhioEPA-DDAGW **Collection Date:** 3/14/2023 2:15:00 PM  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030988-006 **Matrix:** DRINKING WATER  
**Client Sample ID:** PW-207 Entry Point

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>GLYCOLS (8015)</b>		<b>SW8015C</b>			Analyst: <b>JDB</b>	
Diethylene glycol	ND	5000		µg/L	1	3/16/2023 8:03:00 PM
Ethylene glycol	ND	5000		µg/L	1	3/16/2023 8:03:00 PM
Propylene glycol	ND	5000		µg/L	1	3/16/2023 8:03:00 PM
Triethylene glycol	ND	5000		µg/L	1	3/16/2023 8:03:00 PM
<b>EPA504.-DW</b>		<b>E504.1</b>			Analyst: <b>PGP</b>	
<b>EDB, DBCP, 123TCP BY GC (EPA 504.1)</b>						
Dibromochloropropane	ND	0.0400		µg/L	1	3/17/2023 4:55:00 AM
Ethylene dibromide	ND	0.0200		µg/L	1	3/17/2023 4:55:00 AM
<b>DRINKING WATER ORGANIC COMPOUNDS (EPA 525)</b>		<b>E525</b>			Analyst: <b>CSS</b>	
<b>SYNTHETIC ORGANIC COMPOUNDS BY GC/MS (EPA 525.3)</b>						
2,4-Dinitrotoluene	ND	0.200	QL-,QL-	µg/L	1	3/21/2023 6:09:00 AM
Acenaphthylene	ND	0.100		µg/L	1	3/21/2023 6:09:00 AM
Anthracene	ND	0.100	QL-,QL-	µg/L	1	3/21/2023 6:09:00 AM
Benzo(a)anthracene	ND	0.100		µg/L	1	3/21/2023 6:09:00 AM
Benzo(a)pyrene	ND	0.100		µg/L	1	3/21/2023 6:09:00 AM
Benzo(b)fluoranthene	ND	0.100		µg/L	1	3/21/2023 6:09:00 AM
Benzo(g,h,i)perylene	ND	0.100		µg/L	1	3/21/2023 6:09:00 AM
Benzo(k)fluoranthene	ND	0.100	QL-,QL-	µg/L	1	3/21/2023 6:09:00 AM
Bis(2-ethylhexyl) phthalate	0.170	0.200	J	µg/L	1	3/21/2023 6:09:00 AM
Butyl benzyl phthalate	ND	0.200	QL-,QL-	µg/L	1	3/21/2023 6:09:00 AM
Chrysene	ND	0.100	QL-,QL-	µg/L	1	3/21/2023 6:09:00 AM
Dibenz(a,h)anthracene	ND	0.100		µg/L	1	3/21/2023 6:09:00 AM
Diethyl phthalate	ND	0.100		µg/L	1	3/21/2023 6:09:00 AM
Dimethyl phthalate	ND	0.200		µg/L	1	3/21/2023 6:09:00 AM
Di-n-butyl phthalate	ND	0.200		µg/L	1	3/21/2023 6:09:00 AM
Fluorene	ND	0.100	QL-,QL-	µg/L	1	3/21/2023 6:09:00 AM
Hexachlorobenzene	ND	0.100		µg/L	1	3/21/2023 6:09:00 AM
Hexachlorocyclopentadiene	ND	0.100		µg/L	1	3/21/2023 6:09:00 AM
Indeno(1,2,3-cd)pyrene	ND	1.00		µg/L	1	3/21/2023 6:09:00 AM
Isophorone	ND	0.200		µg/L	1	3/21/2023 6:09:00 AM
Phenanthrene	ND	0.100	QL-,QL-	µg/L	1	3/21/2023 6:09:00 AM
Pyrene	ND	0.100	QL-,QL-	µg/L	1	3/21/2023 6:09:00 AM

<b>Qualifiers:</b>	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
	J	Analyte detected below quantitation limits		

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# Analytical Report

(consolidated)

WO#: 23030988

Date Reported: 3/22/2023

**CLIENT:** OhioEPA-DDAGW **Collection Date:** 3/14/2023 2:15:00 PM  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030988-006 **Matrix:** DRINKING WATER  
**Client Sample ID:** PW-207 Entry Point

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

Surr: 1,3-Dimethyl-2-nitrobenzene	67.0	70 - 130	S	%Rec	1	3/21/2023 6:09:00 AM
Surr: Benzo(a)pyrene-d12	79.6	70 - 130		%Rec	1	3/21/2023 6:09:00 AM
Surr: Triphenyl phosphate	96.6	70 - 130		%Rec	1	3/21/2023 6:09:00 AM

SVOC BY SW8270E	Result	PQL	Qual	Units	DF	Date Analyzed
<b>SVOC BY 8270E</b>					<b>SW8270</b>	<b>SW3510C</b>
						Analyst: <b>MES</b>

2,6-Dinitrotoluene	ND	0.980		µg/L	1	3/18/2023 6:06:00 PM
2-Butoxyethanol	ND	29.4		µg/L	1	3/18/2023 6:06:00 PM
2-Methylnaphthalene	ND	0.980		µg/L	1	3/18/2023 6:06:00 PM
3,3'-Dichlorobenzidine	ND	9.80	QC+	µg/L	1	3/18/2023 6:06:00 PM
4-Nitrophenol	ND	4.90	QC+	µg/L	1	3/18/2023 6:06:00 PM
Acenaphthene	ND	0.980		µg/L	1	3/18/2023 6:06:00 PM
Benzoic acid	ND	15.7	QC+	µg/L	1	3/18/2023 6:06:00 PM
Bis(2-chloroethyl) ether	ND	0.980		µg/L	1	3/18/2023 6:06:00 PM
Di-n-octyl phthalate	ND	4.90	QC+QL+	µg/L	1	3/18/2023 6:06:00 PM
Fluoranthene	ND	0.980		µg/L	1	3/18/2023 6:06:00 PM
Naphthalene	ND	0.980		µg/L	1	3/18/2023 6:06:00 PM
Phenol	ND	0.980		µg/L	1	3/18/2023 6:06:00 PM
3&4-Methylphenol	ND	0.980		µg/L	1	3/18/2023 6:06:00 PM
Surr: 2-Fluorophenol	43.0	20 - 130		%Rec	1	3/18/2023 6:06:00 PM
Surr: Phenol-d6	1.26	20 - 130	S	%Rec	1	3/18/2023 6:06:00 PM
Surr: Nitrobenzene-d5	57.9	27.4 - 130		%Rec	1	3/18/2023 6:06:00 PM
Surr: 2,4,6-Tribromophenol	65.6	54.3 - 133		%Rec	1	3/18/2023 6:06:00 PM
Surr: 2-Fluorobiphenyl	55.5	25.6 - 130		%Rec	1	3/18/2023 6:06:00 PM
Surr: p-Terphenyl-d14	73.1	20 - 181		%Rec	1	3/18/2023 6:06:00 PM

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

1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	3/16/2023 3:34:00 AM
1,1,1-Trichloroethane	ND	0.500		µg/L	1	3/16/2023 3:34:00 AM
1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	3/16/2023 3:34:00 AM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	3/16/2023 3:34:00 AM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/16/2023 3:34:00 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	3/16/2023 3:34:00 AM

<b>Qualifiers:</b>	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
	J	Analyte detected below quantitation limits		

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# Analytical Report

(consolidated)

WO#: 23030988

Date Reported: 3/22/2023

**CLIENT:** OhioEPA-DDAGW  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030988-006  
**Client Sample ID:** PW-207 Entry Point

**Collection Date:** 3/14/2023 2:15:00 PM

**Matrix:** DRINKING WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DRINKING WATER VOCS (EPA 524.2)</b>				<b>E524.2</b>	Analyst: ALS	
<b>VOC-GC/MS (524.2)</b>						
1,1-Dichloropropene	ND	0.500		µg/L	1	3/16/2023 3:34:00 AM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	3/16/2023 3:34:00 AM
1,2,3-Trichloropropane	ND	0.500		µg/L	1	3/16/2023 3:34:00 AM
1,2,4-Trichlorobenzene	ND	0.500		µg/L	1	3/16/2023 3:34:00 AM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	3/16/2023 3:34:00 AM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	3/16/2023 3:34:00 AM
1,2-Dichloroethane	ND	0.500		µg/L	1	3/16/2023 3:34:00 AM
1,2-Dichloropropane	ND	0.500		µg/L	1	3/16/2023 3:34:00 AM
1,3,5-Trimethylbenzene	ND	0.500		µg/L	1	3/16/2023 3:34:00 AM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	3/16/2023 3:34:00 AM
1,3-Dichloropropane	ND	0.500		µg/L	1	3/16/2023 3:34:00 AM
1,3-Dichloropropene, Total	ND	1.00		µg/L	1	3/16/2023 3:34:00 AM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	3/16/2023 3:34:00 AM
2-Chlorotoluene	ND	0.500		µg/L	1	3/16/2023 3:34:00 AM
2-Hexanone	ND	5.00		µg/L	1	3/16/2023 3:34:00 AM
4-Chlorotoluene	ND	0.500		µg/L	1	3/16/2023 3:34:00 AM
4-Methyl-2-pentanone	ND	5.00		µg/L	1	3/16/2023 3:34:00 AM
Acetone	ND	5.00		µg/L	1	3/16/2023 3:34:00 AM
Benzene	ND	0.500		µg/L	1	3/16/2023 3:34:00 AM
Bromobenzene	ND	0.500		µg/L	1	3/16/2023 3:34:00 AM
Bromodichloromethane	0.620	0.500		µg/L	1	3/16/2023 3:34:00 AM
Bromoform	ND	0.500		µg/L	1	3/16/2023 11:38:00 PM
Bromomethane	ND	1.00		µg/L	1	3/16/2023 3:34:00 AM
Carbon tetrachloride	ND	0.500		µg/L	1	3/16/2023 3:34:00 AM
Chlorobenzene	ND	0.500		µg/L	1	3/16/2023 3:34:00 AM
Chlorobromomethane	ND	0.500		µg/L	1	3/16/2023 3:34:00 AM
Chlorodibromomethane	0.379	0.500	J	µg/L	1	3/16/2023 3:34:00 AM
Chloroethane	ND	0.500		µg/L	1	3/16/2023 3:34:00 AM
Chloroform	0.689	0.500		µg/L	1	3/16/2023 3:34:00 AM
Chloromethane	ND	0.500		µg/L	1	3/16/2023 3:34:00 AM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	3/16/2023 3:34:00 AM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	3/16/2023 3:34:00 AM
Dibromomethane	ND	0.500		µg/L	1	3/16/2023 3:34:00 AM
Dichlorodifluoromethane	ND	0.500		µg/L	1	3/16/2023 3:34:00 AM

<b>Qualifiers:</b>	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
	J	Analyte detected below quantitation limits		

Original



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

# Analytical Report

(consolidated)

WO#: 23030988

Date Reported: 3/22/2023

**CLIENT:** OhioEPA-DDAGW **Collection Date:** 3/14/2023 2:15:00 PM  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030988-006 **Matrix:** DRINKING WATER  
**Client Sample ID:** PW-207 Entry Point

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DRINKING WATER VOCS (EPA 524.2)</b>				<b>E524.2</b>	Analyst: ALS	
<b>VOC-GC/MS (524.2)</b>						
Ethylbenzene	ND	0.500		µg/L	1	3/16/2023 3:34:00 AM
Hexachloro-1,3-butadiene	ND	0.500		µg/L	1	3/16/2023 3:34:00 AM
Isopropylbenzene	ND	0.500		µg/L	1	3/16/2023 3:34:00 AM
m,p-Xylene	ND	0.500		µg/L	1	3/16/2023 3:34:00 AM
Methylene chloride	ND	0.500		µg/L	1	3/16/2023 3:34:00 AM
MTBE	ND	0.500		µg/L	1	3/16/2023 3:34:00 AM
n-Butylbenzene	ND	0.500		µg/L	1	3/16/2023 3:34:00 AM
n-Propylbenzene	ND	0.500		µg/L	1	3/16/2023 3:34:00 AM
o-Xylene	ND	0.500		µg/L	1	3/16/2023 3:34:00 AM
p-Isopropyltoluene	ND	0.500		µg/L	1	3/16/2023 3:34:00 AM
sec-Butylbenzene	ND	0.500		µg/L	1	3/16/2023 3:34:00 AM
Styrene	ND	0.500		µg/L	1	3/16/2023 3:34:00 AM
Tert-amyl methyl ether	ND	0.500		µg/L	1	3/16/2023 3:34:00 AM
Tert-butyl Alcohol	ND	5.00		µg/L	1	3/16/2023 3:34:00 AM
tert-Butylbenzene	ND	0.500		µg/L	1	3/16/2023 3:34:00 AM
Tetrachloroethene	ND	0.500		µg/L	1	3/16/2023 3:34:00 AM
Toluene	ND	0.500		µg/L	1	3/16/2023 3:34:00 AM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	3/16/2023 3:34:00 AM
trans-1,3-Dichloropropene	ND	0.500		µg/L	1	3/16/2023 3:34:00 AM
Trichloroethene	ND	0.500		µg/L	1	3/16/2023 3:34:00 AM
Trichlorofluoromethane	ND	0.500		µg/L	1	3/16/2023 3:34:00 AM
Vinyl chloride	ND	0.500		µg/L	1	3/16/2023 3:34:00 AM
Xylenes, Total	ND	0.500		µg/L	1	3/16/2023 3:34:00 AM
Surr: 1,2-Dichlorobenzene-d4	85.4	70 - 130		%Rec	1	3/16/2023 3:34:00 AM
Surr: 1,2-Dichlorobenzene-d4	86.4	70 - 130		%Rec	1	3/16/2023 11:38:00 PM
Surr: 4-Bromofluorobenzene	82.7	70 - 130		%Rec	1	3/16/2023 11:38:00 PM
Surr: 4-Bromofluorobenzene	82.0	70 - 130		%Rec	1	3/16/2023 3:34:00 AM

<b>VOC ANALYSIS (8260D)</b>				<b>SW8260</b>	Analyst: ZDA	
<b>VOC BY GC/MS (8260D)</b>						
Freon-113	ND	5.00		µg/L	1	3/16/2023 8:40:00 PM
1,3-Butadiene	ND	5.00		µg/L	1	3/15/2023 7:02:00 PM
1,4-Dioxane	ND	25.0		µg/L	1	3/15/2023 7:02:00 PM
2,2-Dichloropropane	ND	5.00		µg/L	1	3/15/2023 7:02:00 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
	J	Analyte detected below quantitation limits		

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# Analytical Report

(consolidated)

WO#: 23030988

Date Reported: 3/22/2023

**CLIENT:** OhioEPA-DDAGW  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030988-006  
**Client Sample ID:** PW-207 Entry Point

**Collection Date:** 3/14/2023 2:15:00 PM

**Matrix:** DRINKING WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>VOC ANALYSIS (8260D)</b>				<b>SW8260</b>	Analyst: ZDA	
<b>VOC BY GC/MS (8260D)</b>						
2-Butanone	ND	25.0		µg/L	1	3/15/2023 7:02:00 PM
2-Nitropropane	ND	50.0		µg/L	1	3/15/2023 7:02:00 PM
Acrylonitrile (2-propenenitrile)	ND	30.0		µg/L	1	3/15/2023 7:02:00 PM
Allyl chloride	ND	5.00		µg/L	1	3/15/2023 7:02:00 PM
Carbon disulfide	ND	5.00		µg/L	1	3/15/2023 7:02:00 PM
Chloroprene	ND	5.00		µg/L	1	3/15/2023 7:02:00 PM
Cyclohexanone	ND	5.00		µg/L	1	3/15/2023 7:02:00 PM
Ethyl Ether	ND	10.0		µg/L	1	3/15/2023 7:02:00 PM
Epichlorohydrin	ND	20.0		µg/L	1	3/15/2023 7:02:00 PM
ETBE	ND	5.00		µg/L	1	3/15/2023 7:02:00 PM
Ethanol	ND	20.0		µg/L	1	3/15/2023 7:02:00 PM
Ethyl acrylate	ND	5.00		µg/L	1	3/15/2023 7:02:00 PM
Ethyl methacrylate	ND	5.00		µg/L	1	3/15/2023 7:02:00 PM
Hexachloroethane	ND	5.00		µg/L	1	3/15/2023 7:02:00 PM
Diisopropyl ether (DIPE)	ND	5.00		µg/L	1	3/15/2023 7:02:00 PM
Methacrylonitrile	ND	5.00		µg/L	1	3/15/2023 7:02:00 PM
Methyl acrylate	ND	5.00		µg/L	1	3/15/2023 7:02:00 PM
Methyl methacrylate	ND	5.00		µg/L	1	3/15/2023 7:02:00 PM
Propionitrile	ND	5.00		µg/L	1	3/15/2023 7:02:00 PM
trans-1,4-Dichloro-2-butene	ND	5.00		µg/L	1	3/15/2023 7:02:00 PM
Vinyl acetate	ND	5.00		µg/L	1	3/15/2023 7:02:00 PM
1,2,3-Trimethylbenzene	ND	5.00		µg/L	1	3/15/2023 7:02:00 PM
Surr: 4-Bromofluorobenzene	97.6	70 - 130		%Rec	1	3/15/2023 7:02:00 PM
Surr: 4-Bromofluorobenzene	99.7	70 - 130		%Rec	1	3/16/2023 8:40:00 PM
Surr: Dibromofluoromethane	105	70 - 130		%Rec	1	3/15/2023 7:02:00 PM
Surr: Dibromofluoromethane	101	70 - 130		%Rec	1	3/16/2023 8:40:00 PM
Surr: Toluene-d8	98.6	70 - 130		%Rec	1	3/15/2023 7:02:00 PM
Surr: Toluene-d8	101	70 - 130		%Rec	1	3/16/2023 8:40:00 PM

<b>VOC TENTATIVELY IDENTIFIED COMPOUNDS (TICS)</b>				<b>SW8260</b>	Analyst: ZDA	
TIC: 1-Chlorobutane	ND		J	µg/L	1	3/15/2023 7:02:00 PM
TIC: 1-Methylnaphthalene	ND		J	µg/L	1	3/15/2023 7:02:00 PM
TIC: 2-Butyloxyethyl acetate	ND		J	µg/L	1	3/15/2023 7:02:00 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
J	Analyte detected below quantitation limits		

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# Analytical Report

(consolidated)

WO#: **23030988**

Date Reported: **3/22/2023**

**CLIENT:** OhioEPA-DDAGW **Collection Date:** 3/14/2023 2:15:00 PM  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030988-006 **Matrix:** DRINKING WATER  
**Client Sample ID:** PW-207 Entry Point

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>VOC TENTATIVELY IDENTIFIED COMPOUNDS (TICS)</b>				<b>SW8260</b>	Analyst: <b>ZDA</b>	
TIC: 2-Ethylhexyl acrylate	ND	J		µg/L	1	3/15/2023 7:02:00 PM
TIC: Benzyl chloride	ND	J		µg/L	1	3/15/2023 7:02:00 PM
TIC: Bromoethane	ND	J		µg/L	1	3/15/2023 7:02:00 PM
TIC: Chloroacetonitrile	ND	J		µg/L	1	3/15/2023 7:02:00 PM
TIC: n-Butyl acrylate	ND	J		µg/L	1	3/15/2023 7:02:00 PM
TIC: Pentachloroethane	ND	J		µg/L	1	3/15/2023 7:02:00 PM

<b>Qualifiers:</b>	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#: 23030988

Date Reported: 3/22/2023

**CLIENT:** OhioEPA-DDAGW **Collection Date:** 3/14/2023 10:45:00 AM  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030988-007 **Matrix:** DRINKING WATER  
**Client Sample ID:** PW-201FB Field Blank

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>GLYCOLS (8015)</b>		<b>SW8015C</b>			Analyst: <b>JDB</b>	
Diethylene glycol	ND	5000		µg/L	1	3/16/2023 8:59:00 PM
Ethylene glycol	ND	5000		µg/L	1	3/16/2023 8:59:00 PM
Propylene glycol	ND	5000		µg/L	1	3/16/2023 8:59:00 PM
Triethylene glycol	ND	5000		µg/L	1	3/16/2023 8:59:00 PM
<b>EPA504.-DW</b>		<b>E504.1</b>			Analyst: <b>PGP</b>	
<b>EDB, DBCP, 123TCP BY GC (EPA 504.1)</b>		<b>E504.1</b>				
Dibromochloropropane	ND	0.0400		µg/L	1	3/17/2023 5:16:00 AM
Ethylene dibromide	ND	0.0200		µg/L	1	3/17/2023 5:16:00 AM
<b>DRINKING WATER ORGANIC COMPOUNDS (EPA 525)</b>		<b>E525</b>			Analyst: <b>CSS</b>	
<b>SYNTHETIC ORGANIC COMPOUNDS BY GC/MS (EPA 525.3)</b>		<b>525</b>				
2,4-Dinitrotoluene	ND	0.198	QL-,QL-	µg/L	1	3/21/2023 6:55:00 AM
Acenaphthylene	ND	0.0990		µg/L	1	3/21/2023 6:55:00 AM
Anthracene	ND	0.0990	QL-,QL-	µg/L	1	3/21/2023 6:55:00 AM
Benzo(a)anthracene	ND	0.0990		µg/L	1	3/21/2023 6:55:00 AM
Benzo(a)pyrene	ND	0.0990		µg/L	1	3/21/2023 6:55:00 AM
Benzo(b)fluoranthene	ND	0.0990		µg/L	1	3/21/2023 6:55:00 AM
Benzo(g,h,i)perylene	ND	0.0990		µg/L	1	3/21/2023 6:55:00 AM
Benzo(k)fluoranthene	ND	0.0990	QL-,QL-	µg/L	1	3/21/2023 6:55:00 AM
Bis(2-ethylhexyl) phthalate	0.149	0.198	J	µg/L	1	3/21/2023 6:55:00 AM
Butyl benzyl phthalate	ND	0.198	QL-,QL-	µg/L	1	3/21/2023 6:55:00 AM
Chrysene	ND	0.0990	QL-,QL-	µg/L	1	3/21/2023 6:55:00 AM
Dibenz(a,h)anthracene	ND	0.0990		µg/L	1	3/21/2023 6:55:00 AM
Diethyl phthalate	ND	0.0990		µg/L	1	3/21/2023 6:55:00 AM
Dimethyl phthalate	ND	0.198		µg/L	1	3/21/2023 6:55:00 AM
Di-n-butyl phthalate	ND	0.198		µg/L	1	3/21/2023 6:55:00 AM
Fluorene	ND	0.0990	QL-,QL-	µg/L	1	3/21/2023 6:55:00 AM
Hexachlorobenzene	ND	0.0990		µg/L	1	3/21/2023 6:55:00 AM
Hexachlorocyclopentadiene	ND	0.0990		µg/L	1	3/21/2023 6:55:00 AM
Indeno(1,2,3-cd)pyrene	ND	0.990		µg/L	1	3/21/2023 6:55:00 AM
Isophorone	ND	0.198		µg/L	1	3/21/2023 6:55:00 AM
Phenanthrene	ND	0.0990	QL-,QL-	µg/L	1	3/21/2023 6:55:00 AM
Pyrene	ND	0.0990	QL-,QL-	µg/L	1	3/21/2023 6:55:00 AM

<b>Qualifiers:</b>	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#: 23030988

Date Reported: 3/22/2023

**CLIENT:** OhioEPA-DDAGW

**Collection Date:** 3/14/2023 10:45:00 AM

**Project:** Ohio EPA PWS-EP

**Lab ID:** 23030988-007

**Matrix:** DRINKING WATER

**Client Sample ID:** PW-201FB Field Blank

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

Surr: 1,3-Dimethyl-2-nitrobenzene	60.2	70 - 130	S	%Rec	1	3/21/2023 6:55:00 AM
Surr: Benzo(a)pyrene-d12	75.0	70 - 130		%Rec	1	3/21/2023 6:55:00 AM
Surr: Triphenyl phosphate	92.0	70 - 130		%Rec	1	3/21/2023 6:55:00 AM

SVOC BY SW8270E					DF	Date Analyzed
<b>SVOC BY 8270E</b>					<b>SW8270</b>	<b>SW3510C</b>
						Analyst: <b>MES</b>

2,6-Dinitrotoluene	ND	0.980		µg/L	1	3/18/2023 6:45:00 PM
2-Butoxyethanol	ND	29.4		µg/L	1	3/18/2023 6:45:00 PM
2-Methylnaphthalene	ND	0.980		µg/L	1	3/18/2023 6:45:00 PM
3,3'-Dichlorobenzidine	ND	9.80	QC+	µg/L	1	3/18/2023 6:45:00 PM
4-Nitrophenol	ND	4.90	QC+	µg/L	1	3/18/2023 6:45:00 PM
Acenaphthene	ND	0.980		µg/L	1	3/18/2023 6:45:00 PM
Benzoic acid	ND	15.7	QC+	µg/L	1	3/18/2023 6:45:00 PM
Bis(2-chloroethyl) ether	ND	0.980		µg/L	1	3/18/2023 6:45:00 PM
Di-n-octyl phthalate	ND	4.90	QC+QL+	µg/L	1	3/18/2023 6:45:00 PM
Fluoranthene	ND	0.980		µg/L	1	3/18/2023 6:45:00 PM
Naphthalene	ND	0.980		µg/L	1	3/18/2023 6:45:00 PM
Phenol	ND	0.980		µg/L	1	3/18/2023 6:45:00 PM
3&4-Methylphenol	ND	0.980		µg/L	1	3/18/2023 6:45:00 PM
Surr: 2-Fluorophenol	41.9	20 - 130		%Rec	1	3/18/2023 6:45:00 PM
Surr: Phenol-d6	26.5	20 - 130		%Rec	1	3/18/2023 6:45:00 PM
Surr: Nitrobenzene-d5	51.3	27.4 - 130		%Rec	1	3/18/2023 6:45:00 PM
Surr: 2,4,6-Tribromophenol	72.2	54.3 - 133		%Rec	1	3/18/2023 6:45:00 PM
Surr: 2-Fluorobiphenyl	51.5	25.6 - 130		%Rec	1	3/18/2023 6:45:00 PM
Surr: p-Terphenyl-d14	72.7	20 - 181		%Rec	1	3/18/2023 6:45:00 PM

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

1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	3/16/2023 4:03:00 AM
1,1,1-Trichloroethane	ND	0.500		µg/L	1	3/16/2023 4:03:00 AM
1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	3/16/2023 4:03:00 AM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	3/16/2023 4:03:00 AM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/16/2023 4:03:00 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	3/16/2023 4:03:00 AM

<b>Qualifiers:</b>	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#: 23030988

Date Reported: 3/22/2023

**CLIENT:** OhioEPA-DDAGW

**Collection Date:** 3/14/2023 10:45:00 AM

**Project:** Ohio EPA PWS-EP

**Lab ID:** 23030988-007

**Matrix:** DRINKING WATER

**Client Sample ID:** PW-201FB Field Blank

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DRINKING WATER VOCS (EPA 524.2)</b>				<b>E524.2</b>	Analyst: ALS	
<b>VOC-GC/MS (524.2)</b>						
1,1-Dichloropropene	ND	0.500		µg/L	1	3/16/2023 4:03:00 AM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	3/16/2023 4:03:00 AM
1,2,3-Trichloropropane	ND	0.500		µg/L	1	3/16/2023 4:03:00 AM
1,2,4-Trichlorobenzene	ND	0.500		µg/L	1	3/16/2023 4:03:00 AM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	3/16/2023 4:03:00 AM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	3/16/2023 4:03:00 AM
1,2-Dichloroethane	ND	0.500		µg/L	1	3/16/2023 4:03:00 AM
1,2-Dichloropropane	ND	0.500		µg/L	1	3/16/2023 4:03:00 AM
1,3,5-Trimethylbenzene	ND	0.500		µg/L	1	3/16/2023 4:03:00 AM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	3/16/2023 4:03:00 AM
1,3-Dichloropropane	ND	0.500		µg/L	1	3/16/2023 4:03:00 AM
1,3-Dichloropropene, Total	ND	1.00		µg/L	1	3/16/2023 4:03:00 AM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	3/16/2023 4:03:00 AM
2-Chlorotoluene	ND	0.500		µg/L	1	3/16/2023 4:03:00 AM
2-Hexanone	ND	5.00		µg/L	1	3/16/2023 4:03:00 AM
4-Chlorotoluene	ND	0.500		µg/L	1	3/16/2023 4:03:00 AM
4-Methyl-2-pentanone	ND	5.00		µg/L	1	3/16/2023 4:03:00 AM
Acetone	ND	5.00		µg/L	1	3/16/2023 4:03:00 AM
Benzene	ND	0.500		µg/L	1	3/16/2023 4:03:00 AM
Bromobenzene	ND	0.500		µg/L	1	3/16/2023 4:03:00 AM
Bromodichloromethane	ND	0.500		µg/L	1	3/16/2023 4:03:00 AM
Bromoform	ND	0.500		µg/L	1	3/17/2023 12:07:00 AM
Bromomethane	ND	1.00		µg/L	1	3/16/2023 4:03:00 AM
Carbon tetrachloride	ND	0.500		µg/L	1	3/16/2023 4:03:00 AM
Chlorobenzene	ND	0.500		µg/L	1	3/16/2023 4:03:00 AM
Chlorobromomethane	ND	0.500		µg/L	1	3/16/2023 4:03:00 AM
Chlorodibromomethane	ND	0.500		µg/L	1	3/16/2023 4:03:00 AM
Chloroethane	ND	0.500		µg/L	1	3/16/2023 4:03:00 AM
Chloroform	ND	0.500		µg/L	1	3/16/2023 4:03:00 AM
Chloromethane	ND	0.500		µg/L	1	3/16/2023 4:03:00 AM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	3/16/2023 4:03:00 AM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	3/16/2023 4:03:00 AM
Dibromomethane	ND	0.500		µg/L	1	3/16/2023 4:03:00 AM
Dichlorodifluoromethane	ND	0.500		µg/L	1	3/16/2023 4:03:00 AM

<b>Qualifiers:</b>	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
	J	Analyte detected below quantitation limits		

Original



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

# Analytical Report

(consolidated)

WO#: 23030988

Date Reported: 3/22/2023

**CLIENT:** OhioEPA-DDAGW  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030988-007  
**Client Sample ID:** PW-201FB Field Blank

**Collection Date:** 3/14/2023 10:45:00 AM

**Matrix:** DRINKING WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DRINKING WATER VOCS (EPA 524.2)</b>				<b>E524.2</b>	Analyst: ALS	
<b>VOC-GC/MS (524.2)</b>						
Ethylbenzene	ND	0.500		µg/L	1	3/16/2023 4:03:00 AM
Hexachloro-1,3-butadiene	ND	0.500		µg/L	1	3/16/2023 4:03:00 AM
Isopropylbenzene	ND	0.500		µg/L	1	3/16/2023 4:03:00 AM
m,p-Xylene	ND	0.500		µg/L	1	3/16/2023 4:03:00 AM
Methylene chloride	ND	0.500		µg/L	1	3/16/2023 4:03:00 AM
MTBE	ND	0.500		µg/L	1	3/16/2023 4:03:00 AM
n-Butylbenzene	ND	0.500		µg/L	1	3/16/2023 4:03:00 AM
n-Propylbenzene	ND	0.500		µg/L	1	3/16/2023 4:03:00 AM
o-Xylene	ND	0.500		µg/L	1	3/16/2023 4:03:00 AM
p-Isopropyltoluene	ND	0.500		µg/L	1	3/16/2023 4:03:00 AM
sec-Butylbenzene	ND	0.500		µg/L	1	3/16/2023 4:03:00 AM
Styrene	ND	0.500		µg/L	1	3/16/2023 4:03:00 AM
Tert-amyl methyl ether	ND	0.500		µg/L	1	3/16/2023 4:03:00 AM
Tert-butyl Alcohol	ND	5.00		µg/L	1	3/16/2023 4:03:00 AM
tert-Butylbenzene	ND	0.500		µg/L	1	3/16/2023 4:03:00 AM
Tetrachloroethene	ND	0.500		µg/L	1	3/16/2023 4:03:00 AM
Toluene	ND	0.500		µg/L	1	3/16/2023 4:03:00 AM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	3/16/2023 4:03:00 AM
trans-1,3-Dichloropropene	ND	0.500		µg/L	1	3/16/2023 4:03:00 AM
Trichloroethene	ND	0.500		µg/L	1	3/16/2023 4:03:00 AM
Trichlorofluoromethane	ND	0.500		µg/L	1	3/16/2023 4:03:00 AM
Vinyl chloride	ND	0.500		µg/L	1	3/16/2023 4:03:00 AM
Xylenes, Total	ND	0.500		µg/L	1	3/16/2023 4:03:00 AM
Surr: 1,2-Dichlorobenzene-d4	83.3	70 - 130		%Rec	1	3/16/2023 4:03:00 AM
Surr: 1,2-Dichlorobenzene-d4	84.6	70 - 130		%Rec	1	3/17/2023 12:07:00 AM
Surr: 4-Bromofluorobenzene	82.9	70 - 130		%Rec	1	3/17/2023 12:07:00 AM
Surr: 4-Bromofluorobenzene	80.1	70 - 130		%Rec	1	3/16/2023 4:03:00 AM

<b>VOC ANALYSIS (8260D)</b>				<b>SW8260</b>	Analyst: ZDA	
<b>VOC BY GC/MS (8260D)</b>						
Freon-113	ND	5.00		µg/L	1	3/16/2023 9:05:00 PM
1,3-Butadiene	ND	5.00		µg/L	1	3/15/2023 7:26:00 PM
1,4-Dioxane	ND	25.0		µg/L	1	3/15/2023 7:26:00 PM
2,2-Dichloropropane	ND	5.00		µg/L	1	3/15/2023 7:26:00 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
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# Analytical Report

(consolidated)

WO#: 23030988

Date Reported: 3/22/2023

**CLIENT:** OhioEPA-DDAGW

**Collection Date:** 3/14/2023 10:45:00 AM

**Project:** Ohio EPA PWS-EP

**Lab ID:** 23030988-007

**Matrix:** DRINKING WATER

**Client Sample ID:** PW-201FB Field Blank

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>VOC ANALYSIS (8260D)</b>				<b>SW8260</b>	Analyst: ZDA	
<b>VOC BY GC/MS (8260D)</b>						
2-Butanone	ND	25.0		µg/L	1	3/15/2023 7:26:00 PM
2-Nitropropane	ND	50.0		µg/L	1	3/15/2023 7:26:00 PM
Acrylonitrile (2-propenenitrile)	ND	30.0		µg/L	1	3/15/2023 7:26:00 PM
Allyl chloride	ND	5.00		µg/L	1	3/15/2023 7:26:00 PM
Carbon disulfide	ND	5.00		µg/L	1	3/15/2023 7:26:00 PM
Chloroprene	ND	5.00		µg/L	1	3/15/2023 7:26:00 PM
Cyclohexanone	ND	5.00		µg/L	1	3/15/2023 7:26:00 PM
Ethyl Ether	ND	10.0		µg/L	1	3/15/2023 7:26:00 PM
Epichlorohydrin	ND	20.0		µg/L	1	3/15/2023 7:26:00 PM
ETBE	ND	5.00		µg/L	1	3/15/2023 7:26:00 PM
Ethanol	ND	20.0		µg/L	1	3/15/2023 7:26:00 PM
Ethyl acrylate	ND	5.00		µg/L	1	3/15/2023 7:26:00 PM
Ethyl methacrylate	ND	5.00		µg/L	1	3/15/2023 7:26:00 PM
Hexachloroethane	ND	5.00		µg/L	1	3/15/2023 7:26:00 PM
Diisopropyl ether (DIPE)	ND	5.00		µg/L	1	3/15/2023 7:26:00 PM
Methacrylonitrile	ND	5.00		µg/L	1	3/15/2023 7:26:00 PM
Methyl acrylate	ND	5.00		µg/L	1	3/15/2023 7:26:00 PM
Methyl methacrylate	ND	5.00		µg/L	1	3/15/2023 7:26:00 PM
Propionitrile	ND	5.00		µg/L	1	3/15/2023 7:26:00 PM
trans-1,4-Dichloro-2-butene	ND	5.00		µg/L	1	3/15/2023 7:26:00 PM
Vinyl acetate	ND	5.00		µg/L	1	3/15/2023 7:26:00 PM
1,2,3-Trimethylbenzene	ND	5.00		µg/L	1	3/15/2023 7:26:00 PM
Surr: 4-Bromofluorobenzene	98.7	70 - 130		%Rec	1	3/15/2023 7:26:00 PM
Surr: 4-Bromofluorobenzene	96.3	70 - 130		%Rec	1	3/16/2023 9:05:00 PM
Surr: Dibromofluoromethane	105	70 - 130		%Rec	1	3/15/2023 7:26:00 PM
Surr: Dibromofluoromethane	95.5	70 - 130		%Rec	1	3/16/2023 9:05:00 PM
Surr: Toluene-d8	100	70 - 130		%Rec	1	3/15/2023 7:26:00 PM
Surr: Toluene-d8	99.8	70 - 130		%Rec	1	3/16/2023 9:05:00 PM

<b>VOC TENTATIVELY IDENTIFIED COMPOUNDS (TICS)</b>				<b>SW8260</b>	Analyst: ZDA	
TIC: 1-Chlorobutane	ND		J	µg/L	1	3/15/2023 7:26:00 PM
TIC: 1-Methylnaphthalene	ND		J	µg/L	1	3/15/2023 7:26:00 PM
TIC: 2-Butyloxyethyl acetate	ND		J	µg/L	1	3/15/2023 7:26:00 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
	J	Analyte detected below quantitation limits		

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# Analytical Report

(consolidated)

WO#: 23030988

Date Reported: 3/22/2023

**CLIENT:** OhioEPA-DDAGW **Collection Date:** 3/14/2023 10:45:00 AM  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030988-007 **Matrix:** DRINKING WATER  
**Client Sample ID:** PW-201FB Field Blank

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>VOC TENTATIVELY IDENTIFIED COMPOUNDS (TICS)</b>				<b>SW8260</b>	Analyst: ZDA	
TIC: 2-Ethylhexyl acrylate	ND	J		µg/L	1	3/15/2023 7:26:00 PM
TIC: Benzyl chloride	ND	J		µg/L	1	3/15/2023 7:26:00 PM
TIC: Bromoethane	ND	J		µg/L	1	3/15/2023 7:26:00 PM
TIC: Chloroacetonitrile	ND	J		µg/L	1	3/15/2023 7:26:00 PM
TIC: n-Butyl acrylate	ND	J		µg/L	1	3/15/2023 7:26:00 PM
TIC: Pentachloroethane	ND	J		µg/L	1	3/15/2023 7:26:00 PM

<b>Qualifiers:</b>	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#: 23030988

Date Reported: 3/22/2023

**CLIENT:** OhioEPA-DDAGW **Collection Date:** 3/14/2023 2:15:00 PM  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030988-008 **Matrix:** DRINKING WATER  
**Client Sample ID:** PW-207DUPE Duplicate

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>GLYCOLS (8015)</b>		<b>SW8015C</b>			Analyst: JDB	
Diethylene glycol	ND	5000		µg/L	1	3/16/2023 9:55:00 PM
Ethylene glycol	ND	5000		µg/L	1	3/16/2023 9:55:00 PM
Propylene glycol	ND	5000		µg/L	1	3/16/2023 9:55:00 PM
Triethylene glycol	ND	5000		µg/L	1	3/16/2023 9:55:00 PM
<b>EPA504.-DW</b>		<b>E504.1</b>			Analyst: PGP	
<b>EDB, DBCP, 123TCP BY GC (EPA 504.1)</b>		<b>E504.1</b>			Analyst: PGP	
Dibromochloropropane	ND	0.0400		µg/L	1	3/17/2023 5:37:00 AM
Ethylene dibromide	ND	0.0200		µg/L	1	3/17/2023 5:37:00 AM
<b>DRINKING WATER ORGANIC COMPOUNDS (EPA 525)</b>		<b>E525</b>			Analyst: CSS	
<b>SYNTHETIC ORGANIC COMPOUNDS BY GC/MS (EPA 525.3)</b>		<b>525</b>			Analyst: CSS	
2,4-Dinitrotoluene	ND	0.198		µg/L	1	3/22/2023 1:04:00 AM
Acenaphthylene	ND	0.0990	QL-	µg/L	1	3/22/2023 1:04:00 AM
Anthracene	ND	0.0990		µg/L	1	3/22/2023 1:04:00 AM
Benzo(a)anthracene	ND	0.0990	QL-	µg/L	1	3/22/2023 1:04:00 AM
Benzo(a)pyrene	ND	0.0990	QL-	µg/L	1	3/22/2023 1:04:00 AM
Benzo(b)fluoranthene	ND	0.0990	QL-	µg/L	1	3/22/2023 1:04:00 AM
Benzo(g,h,i)perylene	ND	0.0990	QL-	µg/L	1	3/22/2023 1:04:00 AM
Benzo(k)fluoranthene	ND	0.0990	QL-	µg/L	1	3/22/2023 1:04:00 AM
Bis(2-ethylhexyl) phthalate	0.238	0.198	QL-	µg/L	1	3/22/2023 1:04:00 AM
Butyl benzyl phthalate	ND	0.198		µg/L	1	3/22/2023 1:04:00 AM
Chrysene	ND	0.0990	QL-	µg/L	1	3/22/2023 1:04:00 AM
Dibenz(a,h)anthracene	ND	0.0990	QL-	µg/L	1	3/22/2023 1:04:00 AM
Diethyl phthalate	ND	0.0990		µg/L	1	3/22/2023 1:04:00 AM
Dimethyl phthalate	ND	0.198		µg/L	1	3/22/2023 1:04:00 AM
Di-n-butyl phthalate	ND	0.198		µg/L	1	3/22/2023 1:04:00 AM
Fluorene	ND	0.0990		µg/L	1	3/22/2023 1:04:00 AM
Hexachlorobenzene	ND	0.0990	QL-	µg/L	1	3/22/2023 1:04:00 AM
Hexachlorocyclopentadiene	ND	0.0990	QL-	µg/L	1	3/22/2023 1:04:00 AM
Indeno(1,2,3-cd)pyrene	ND	0.990	QL-	µg/L	1	3/22/2023 1:04:00 AM
Isophorone	ND	0.198	QL-	µg/L	1	3/22/2023 1:04:00 AM
Phenanthrene	ND	0.0990		µg/L	1	3/22/2023 1:04:00 AM
Pyrene	ND	0.0990		µg/L	1	3/22/2023 1:04:00 AM

<b>Qualifiers:</b>	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#: 23030988

Date Reported: 3/22/2023

**CLIENT:** OhioEPA-DDAGW **Collection Date:** 3/14/2023 2:15:00 PM  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030988-008 **Matrix:** DRINKING WATER  
**Client Sample ID:** PW-207DUPE Duplicate

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

Surr: 1,3-Dimethyl-2-nitrobenzene	63.0	70 - 130	S	%Rec	1	3/22/2023 1:04:00 AM
Surr: Benzo(a)pyrene-d12	82.0	70 - 130		%Rec	1	3/22/2023 1:04:00 AM
Surr: Triphenyl phosphate	103	70 - 130		%Rec	1	3/22/2023 1:04:00 AM

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

2,6-Dinitrotoluene	ND	1.00		µg/L	1	3/18/2023 7:26:00 PM
2-Butoxyethanol	ND	30.0		µg/L	1	3/18/2023 7:26:00 PM
2-Methylnaphthalene	ND	1.00		µg/L	1	3/18/2023 7:26:00 PM
3,3'-Dichlorobenzidine	ND	10.0	QC+	µg/L	1	3/18/2023 7:26:00 PM
4-Nitrophenol	ND	5.00	QC+	µg/L	1	3/18/2023 7:26:00 PM
Acenaphthene	ND	1.00		µg/L	1	3/18/2023 7:26:00 PM
Benzoic acid	ND	16.0	QC+	µg/L	1	3/18/2023 7:26:00 PM
Bis(2-chloroethyl) ether	ND	1.00		µg/L	1	3/18/2023 7:26:00 PM
Di-n-octyl phthalate	ND	5.00	QC+QL+	µg/L	1	3/18/2023 7:26:00 PM
Fluoranthene	ND	1.00		µg/L	1	3/18/2023 7:26:00 PM
Naphthalene	ND	1.00		µg/L	1	3/18/2023 7:26:00 PM
Phenol	ND	1.00		µg/L	1	3/18/2023 7:26:00 PM
3&4-Methylphenol	ND	1.00		µg/L	1	3/18/2023 7:26:00 PM
Surr: 2-Fluorophenol	34.5	20 - 130		%Rec	1	3/18/2023 7:26:00 PM
Surr: Phenol-d6	0.720	20 - 130	S	%Rec	1	3/18/2023 7:26:00 PM
Surr: Nitrobenzene-d5	52.5	27.4 - 130		%Rec	1	3/18/2023 7:26:00 PM
Surr: 2,4,6-Tribromophenol	61.1	54.3 - 133		%Rec	1	3/18/2023 7:26:00 PM
Surr: 2-Fluorobiphenyl	53.0	25.6 - 130		%Rec	1	3/18/2023 7:26:00 PM
Surr: p-Terphenyl-d14	73.9	20 - 181		%Rec	1	3/18/2023 7:26:00 PM

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

1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	3/16/2023 4:32:00 AM
1,1,1-Trichloroethane	ND	0.500		µg/L	1	3/16/2023 4:32:00 AM
1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	3/16/2023 4:32:00 AM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	3/16/2023 4:32:00 AM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/16/2023 4:32:00 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	3/16/2023 4:32:00 AM

<b>Qualifiers:</b>	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#: 23030988

Date Reported: 3/22/2023

**CLIENT:** OhioEPA-DDAGW **Collection Date:** 3/14/2023 2:15:00 PM  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030988-008 **Matrix:** DRINKING WATER  
**Client Sample ID:** PW-207DUPE Duplicate

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DRINKING WATER VOCS (EPA 524.2)</b>				<b>E524.2</b>	Analyst: ALS	
<b>VOC-GC/MS (524.2)</b>						
1,1-Dichloropropene	ND	0.500		µg/L	1	3/16/2023 4:32:00 AM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	3/16/2023 4:32:00 AM
1,2,3-Trichloropropane	ND	0.500		µg/L	1	3/16/2023 4:32:00 AM
1,2,4-Trichlorobenzene	ND	0.500		µg/L	1	3/16/2023 4:32:00 AM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	3/16/2023 4:32:00 AM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	3/16/2023 4:32:00 AM
1,2-Dichloroethane	ND	0.500		µg/L	1	3/16/2023 4:32:00 AM
1,2-Dichloropropane	ND	0.500		µg/L	1	3/16/2023 4:32:00 AM
1,3,5-Trimethylbenzene	ND	0.500		µg/L	1	3/16/2023 4:32:00 AM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	3/16/2023 4:32:00 AM
1,3-Dichloropropane	ND	0.500		µg/L	1	3/16/2023 4:32:00 AM
1,3-Dichloropropene, Total	ND	1.00		µg/L	1	3/16/2023 4:32:00 AM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	3/16/2023 4:32:00 AM
2-Chlorotoluene	ND	0.500		µg/L	1	3/16/2023 4:32:00 AM
2-Hexanone	ND	5.00		µg/L	1	3/16/2023 4:32:00 AM
4-Chlorotoluene	ND	0.500		µg/L	1	3/16/2023 4:32:00 AM
4-Methyl-2-pentanone	ND	5.00		µg/L	1	3/16/2023 4:32:00 AM
Acetone	ND	5.00		µg/L	1	3/16/2023 4:32:00 AM
Benzene	ND	0.500		µg/L	1	3/16/2023 4:32:00 AM
Bromobenzene	ND	0.500		µg/L	1	3/16/2023 4:32:00 AM
Bromodichloromethane	0.638	0.500		µg/L	1	3/16/2023 4:32:00 AM
Bromoform	ND	0.500		µg/L	1	3/17/2023 12:36:00 AM
Bromomethane	ND	1.00		µg/L	1	3/16/2023 4:32:00 AM
Carbon tetrachloride	ND	0.500		µg/L	1	3/16/2023 4:32:00 AM
Chlorobenzene	ND	0.500		µg/L	1	3/16/2023 4:32:00 AM
Chlorobromomethane	ND	0.500		µg/L	1	3/16/2023 4:32:00 AM
Chlorodibromomethane	0.397	0.500	J	µg/L	1	3/16/2023 4:32:00 AM
Chloroethane	ND	0.500		µg/L	1	3/16/2023 4:32:00 AM
Chloroform	0.741	0.500		µg/L	1	3/16/2023 4:32:00 AM
Chloromethane	ND	0.500		µg/L	1	3/16/2023 4:32:00 AM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	3/16/2023 4:32:00 AM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	3/16/2023 4:32:00 AM
Dibromomethane	ND	0.500		µg/L	1	3/16/2023 4:32:00 AM
Dichlorodifluoromethane	ND	0.500		µg/L	1	3/16/2023 4:32:00 AM

<b>Qualifiers:</b>	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
	J	Analyte detected below quantitation limits		

Original



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

# Analytical Report

(consolidated)

WO#: 23030988

Date Reported: 3/22/2023

**CLIENT:** OhioEPA-DDAGW **Collection Date:** 3/14/2023 2:15:00 PM  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030988-008 **Matrix:** DRINKING WATER  
**Client Sample ID:** PW-207DUPE Duplicate

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DRINKING WATER VOCS (EPA 524.2)</b>				<b>E524.2</b>	Analyst: ALS	
<b>VOC-GC/MS (524.2)</b>						
Ethylbenzene	ND	0.500		µg/L	1	3/16/2023 4:32:00 AM
Hexachloro-1,3-butadiene	ND	0.500		µg/L	1	3/16/2023 4:32:00 AM
Isopropylbenzene	ND	0.500		µg/L	1	3/16/2023 4:32:00 AM
m,p-Xylene	ND	0.500		µg/L	1	3/16/2023 4:32:00 AM
Methylene chloride	ND	0.500		µg/L	1	3/16/2023 4:32:00 AM
MTBE	ND	0.500		µg/L	1	3/16/2023 4:32:00 AM
n-Butylbenzene	ND	0.500		µg/L	1	3/16/2023 4:32:00 AM
n-Propylbenzene	ND	0.500		µg/L	1	3/16/2023 4:32:00 AM
o-Xylene	ND	0.500		µg/L	1	3/16/2023 4:32:00 AM
p-Isopropyltoluene	ND	0.500		µg/L	1	3/16/2023 4:32:00 AM
sec-Butylbenzene	ND	0.500		µg/L	1	3/16/2023 4:32:00 AM
Styrene	ND	0.500		µg/L	1	3/16/2023 4:32:00 AM
Tert-amyl methyl ether	ND	0.500		µg/L	1	3/16/2023 4:32:00 AM
Tert-butyl Alcohol	ND	5.00		µg/L	1	3/16/2023 4:32:00 AM
tert-Butylbenzene	ND	0.500		µg/L	1	3/16/2023 4:32:00 AM
Tetrachloroethene	ND	0.500		µg/L	1	3/16/2023 4:32:00 AM
Toluene	ND	0.500		µg/L	1	3/16/2023 4:32:00 AM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	3/16/2023 4:32:00 AM
trans-1,3-Dichloropropene	ND	0.500		µg/L	1	3/16/2023 4:32:00 AM
Trichloroethene	ND	0.500		µg/L	1	3/16/2023 4:32:00 AM
Trichlorofluoromethane	ND	0.500		µg/L	1	3/16/2023 4:32:00 AM
Vinyl chloride	ND	0.500		µg/L	1	3/16/2023 4:32:00 AM
Xylenes, Total	ND	0.500		µg/L	1	3/16/2023 4:32:00 AM
Surr: 1,2-Dichlorobenzene-d4	78.7	70 - 130		%Rec	1	3/16/2023 4:32:00 AM
Surr: 1,2-Dichlorobenzene-d4	83.4	70 - 130		%Rec	1	3/17/2023 12:36:00 AM
Surr: 4-Bromofluorobenzene	84.2	70 - 130		%Rec	1	3/17/2023 12:36:00 AM
Surr: 4-Bromofluorobenzene	78.8	70 - 130		%Rec	1	3/16/2023 4:32:00 AM

<b>VOC ANALYSIS (8260D)</b>				<b>SW8260</b>	Analyst: ZDA	
<b>VOC BY GC/MS (8260D)</b>						
Freon-113	ND	5.00		µg/L	1	3/16/2023 9:29:00 PM
1,3-Butadiene	ND	5.00		µg/L	1	3/15/2023 7:49:00 PM
1,4-Dioxane	ND	25.0		µg/L	1	3/15/2023 7:49:00 PM
2,2-Dichloropropane	ND	5.00		µg/L	1	3/15/2023 7:49:00 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
	J	Analyte detected below quantitation limits		

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# Analytical Report

(consolidated)

WO#: 23030988

Date Reported: 3/22/2023

**CLIENT:** OhioEPA-DDAGW **Collection Date:** 3/14/2023 2:15:00 PM  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030988-008 **Matrix:** DRINKING WATER  
**Client Sample ID:** PW-207DUPE Duplicate

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>VOC ANALYSIS (8260D)</b>				<b>SW8260</b>	Analyst: ZDA	
<b>VOC BY GC/MS (8260D)</b>						
2-Butanone	ND	25.0		µg/L	1	3/15/2023 7:49:00 PM
2-Nitropropane	ND	50.0		µg/L	1	3/15/2023 7:49:00 PM
Acrylonitrile (2-propenenitrile)	ND	30.0		µg/L	1	3/15/2023 7:49:00 PM
Allyl chloride	ND	5.00		µg/L	1	3/15/2023 7:49:00 PM
Carbon disulfide	ND	5.00		µg/L	1	3/15/2023 7:49:00 PM
Chloroprene	ND	5.00		µg/L	1	3/15/2023 7:49:00 PM
Cyclohexanone	ND	5.00		µg/L	1	3/15/2023 7:49:00 PM
Ethyl Ether	ND	10.0		µg/L	1	3/15/2023 7:49:00 PM
Epichlorohydrin	ND	20.0		µg/L	1	3/15/2023 7:49:00 PM
ETBE	ND	5.00		µg/L	1	3/15/2023 7:49:00 PM
Ethanol	ND	20.0		µg/L	1	3/15/2023 7:49:00 PM
Ethyl acrylate	ND	5.00		µg/L	1	3/15/2023 7:49:00 PM
Ethyl methacrylate	ND	5.00		µg/L	1	3/15/2023 7:49:00 PM
Hexachloroethane	ND	5.00		µg/L	1	3/15/2023 7:49:00 PM
Diisopropyl ether (DIPE)	ND	5.00		µg/L	1	3/15/2023 7:49:00 PM
Methacrylonitrile	ND	5.00		µg/L	1	3/15/2023 7:49:00 PM
Methyl acrylate	ND	5.00		µg/L	1	3/15/2023 7:49:00 PM
Methyl methacrylate	ND	5.00		µg/L	1	3/15/2023 7:49:00 PM
Propionitrile	ND	5.00		µg/L	1	3/15/2023 7:49:00 PM
trans-1,4-Dichloro-2-butene	ND	5.00		µg/L	1	3/15/2023 7:49:00 PM
Vinyl acetate	ND	5.00		µg/L	1	3/15/2023 7:49:00 PM
1,2,3-Trimethylbenzene	ND	5.00		µg/L	1	3/15/2023 7:49:00 PM
Surr: 4-Bromofluorobenzene	96.6	70 - 130		%Rec	1	3/15/2023 7:49:00 PM
Surr: 4-Bromofluorobenzene	95.3	70 - 130		%Rec	1	3/16/2023 9:29:00 PM
Surr: Dibromofluoromethane	104	70 - 130		%Rec	1	3/15/2023 7:49:00 PM
Surr: Dibromofluoromethane	98.5	70 - 130		%Rec	1	3/16/2023 9:29:00 PM
Surr: Toluene-d8	99.3	70 - 130		%Rec	1	3/15/2023 7:49:00 PM
Surr: Toluene-d8	99.9	70 - 130		%Rec	1	3/16/2023 9:29:00 PM

<b>VOC TENTATIVELY IDENTIFIED COMPOUNDS (TICS)</b>				<b>SW8260</b>	Analyst: ZDA	
TIC: 1-Chlorobutane	ND		J	µg/L	1	3/15/2023 7:49:00 PM
TIC: 1-Methylnaphthalene	ND		J	µg/L	1	3/15/2023 7:49:00 PM
TIC: 2-Butyloxyethyl acetate	ND		J	µg/L	1	3/15/2023 7:49:00 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
	J	Analyte detected below quantitation limits		

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# Analytical Report

(consolidated)

WO#: **23030988**

Date Reported: **3/22/2023**

**CLIENT:** OhioEPA-DDAGW **Collection Date:** 3/14/2023 2:15:00 PM  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030988-008 **Matrix:** DRINKING WATER  
**Client Sample ID:** PW-207DUPE Duplicate

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>VOC TENTATIVELY IDENTIFIED COMPOUNDS (TICS)</b>				<b>SW8260</b>	Analyst: <b>ZDA</b>	
TIC: 2-Ethylhexyl acrylate	ND	J		µg/L	1	3/15/2023 7:49:00 PM
TIC: Benzyl chloride	ND	J		µg/L	1	3/15/2023 7:49:00 PM
TIC: Bromoethane	ND	J		µg/L	1	3/15/2023 7:49:00 PM
TIC: Chloroacetonitrile	ND	J		µg/L	1	3/15/2023 7:49:00 PM
TIC: n-Butyl acrylate	ND	J		µg/L	1	3/15/2023 7:49:00 PM
TIC: Pentachloroethane	ND	J		µg/L	1	3/15/2023 7:49:00 PM

<b>Qualifiers:</b>	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#: 23030988

Date Reported: 3/22/2023

**CLIENT:** OhioEPA-DDAGW

**Collection Date:**

**Project:** Ohio EPA PWS-EP

**Lab ID:** 23030988-009

**Matrix:** DRINKING WATER

**Client Sample ID:** Trip Blank 1

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA504.-DW</b>					<b>E504.1</b>	<b>E504.1</b>
<b>EDB, DBCP, 123TCP BY GC (EPA 504.1)</b>						Analyst: <b>PGP</b>
Dibromochloropropane	ND	0.0400		µg/L	1	3/17/2023 5:58:00 AM
Ethylene dibromide	ND	0.0200		µg/L	1	3/17/2023 5:58:00 AM
<b>DRINKING WATER VOCS (EPA 524.2)</b>					<b>E524.2</b>	Analyst: <b>ALS</b>
<b>VOC-GC/MS (524.2)</b>						
1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	3/15/2023 11:16:00 PM
1,1,1-Trichloroethane	ND	0.500		µg/L	1	3/15/2023 11:16:00 PM
1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	3/15/2023 11:16:00 PM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	3/15/2023 11:16:00 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/15/2023 11:16:00 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	3/15/2023 11:16:00 PM
1,1-Dichloropropene	ND	0.500		µg/L	1	3/15/2023 11:16:00 PM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	3/15/2023 11:16:00 PM
1,2,3-Trichloropropane	ND	0.500		µg/L	1	3/15/2023 11:16:00 PM
1,2,4-Trichlorobenzene	ND	0.500		µg/L	1	3/15/2023 11:16:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	3/15/2023 11:16:00 PM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	3/15/2023 11:16:00 PM
1,2-Dichloroethane	ND	0.500		µg/L	1	3/15/2023 11:16:00 PM
1,2-Dichloropropane	ND	0.500		µg/L	1	3/15/2023 11:16:00 PM
1,3,5-Trimethylbenzene	ND	0.500		µg/L	1	3/15/2023 11:16:00 PM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	3/15/2023 11:16:00 PM
1,3-Dichloropropane	ND	0.500		µg/L	1	3/15/2023 11:16:00 PM
1,3-Dichloropropene, Total	ND	1.00		µg/L	1	3/15/2023 11:16:00 PM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	3/15/2023 11:16:00 PM
2-Chlorotoluene	ND	0.500		µg/L	1	3/15/2023 11:16:00 PM
2-Hexanone	ND	5.00		µg/L	1	3/15/2023 11:16:00 PM
4-Chlorotoluene	ND	0.500		µg/L	1	3/15/2023 11:16:00 PM
4-Methyl-2-pentanone	ND	5.00		µg/L	1	3/15/2023 11:16:00 PM
Acetone	ND	5.00		µg/L	1	3/15/2023 11:16:00 PM
Benzene	ND	0.500		µg/L	1	3/15/2023 11:16:00 PM
Bromobenzene	ND	0.500		µg/L	1	3/15/2023 11:16:00 PM
Bromodichloromethane	ND	0.500		µg/L	1	3/15/2023 11:16:00 PM
Bromoform	ND	0.500		µg/L	1	3/16/2023 6:19:00 PM
Bromomethane	ND	1.00		µg/L	1	3/15/2023 11:16:00 PM

<b>Qualifiers:</b>	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
	J	Analyte detected below quantitation limits		

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# Analytical Report

(consolidated)

WO#: 23030988

Date Reported: 3/22/2023

**CLIENT:** OhioEPA-DDAGW  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030988-009  
**Client Sample ID:** Trip Blank 1

**Collection Date:**  
**Matrix:** DRINKING WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DRINKING WATER VOCs (EPA 524.2)</b>				<b>E524.2</b>	Analyst: ALS	
<b>VOC-GC/MS (524.2)</b>						
Carbon tetrachloride	ND	0.500		µg/L	1	3/15/2023 11:16:00 PM
Chlorobenzene	ND	0.500		µg/L	1	3/15/2023 11:16:00 PM
Chlorobromomethane	ND	0.500		µg/L	1	3/15/2023 11:16:00 PM
Chlorodibromomethane	ND	0.500		µg/L	1	3/15/2023 11:16:00 PM
Chloroethane	ND	0.500		µg/L	1	3/15/2023 11:16:00 PM
Chloroform	ND	0.500		µg/L	1	3/15/2023 11:16:00 PM
Chloromethane	ND	0.500		µg/L	1	3/15/2023 11:16:00 PM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	3/15/2023 11:16:00 PM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	3/15/2023 11:16:00 PM
Dibromomethane	ND	0.500		µg/L	1	3/15/2023 11:16:00 PM
Dichlorodifluoromethane	ND	0.500		µg/L	1	3/15/2023 11:16:00 PM
Ethylbenzene	ND	0.500		µg/L	1	3/15/2023 11:16:00 PM
Hexachloro-1,3-butadiene	ND	0.500		µg/L	1	3/15/2023 11:16:00 PM
Isopropylbenzene	ND	0.500		µg/L	1	3/15/2023 11:16:00 PM
m,p-Xylene	ND	0.500		µg/L	1	3/15/2023 11:16:00 PM
Methylene chloride	ND	0.500		µg/L	1	3/15/2023 11:16:00 PM
MTBE	ND	0.500		µg/L	1	3/15/2023 11:16:00 PM
n-Butylbenzene	ND	0.500		µg/L	1	3/15/2023 11:16:00 PM
n-Propylbenzene	ND	0.500		µg/L	1	3/15/2023 11:16:00 PM
o-Xylene	ND	0.500		µg/L	1	3/15/2023 11:16:00 PM
p-Isopropyltoluene	ND	0.500		µg/L	1	3/15/2023 11:16:00 PM
sec-Butylbenzene	ND	0.500		µg/L	1	3/15/2023 11:16:00 PM
Styrene	ND	0.500		µg/L	1	3/15/2023 11:16:00 PM
Tert-amyl methyl ether	ND	0.500		µg/L	1	3/15/2023 11:16:00 PM
Tert-butyl Alcohol	ND	5.00		µg/L	1	3/15/2023 11:16:00 PM
tert-Butylbenzene	ND	0.500		µg/L	1	3/15/2023 11:16:00 PM
Tetrachloroethene	ND	0.500		µg/L	1	3/15/2023 11:16:00 PM
Toluene	ND	0.500		µg/L	1	3/15/2023 11:16:00 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	3/15/2023 11:16:00 PM
trans-1,3-Dichloropropene	ND	0.500		µg/L	1	3/15/2023 11:16:00 PM
Trichloroethene	ND	0.500		µg/L	1	3/15/2023 11:16:00 PM
Trichlorofluoromethane	ND	0.500		µg/L	1	3/15/2023 11:16:00 PM
Vinyl chloride	ND	0.500		µg/L	1	3/15/2023 11:16:00 PM
Xylenes, Total	ND	0.500		µg/L	1	3/15/2023 11:16:00 PM

<b>Qualifiers:</b>	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#: 23030988

Date Reported: 3/22/2023

**CLIENT:** OhioEPA-DDAGW  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030988-009  
**Client Sample ID:** Trip Blank 1

**Collection Date:**  
**Matrix:** DRINKING WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DRINKING WATER VOCS (EPA 524.2)</b>				<b>E524.2</b>		Analyst: ALS
<b>VOC-GC/MS (524.2)</b>						
Surr: 1,2-Dichlorobenzene-d4	83.7	70	-	130	%Rec	1 3/15/2023 11:16:00 PM
Surr: 1,2-Dichlorobenzene-d4	84.9	70	-	130	%Rec	1 3/16/2023 6:19:00 PM
Surr: 4-Bromofluorobenzene	84.2	70	-	130	%Rec	1 3/16/2023 6:19:00 PM
Surr: 4-Bromofluorobenzene	78.3	70	-	130	%Rec	1 3/15/2023 11:16:00 PM
<b>VOC ANALYSIS (8260D)</b>				<b>SW8260</b>		Analyst: ZDA
<b>VOC BY GC/MS (8260D)</b>						
Freon-113	ND	5.00		µg/L	1	3/16/2023 4:32:00 PM
1,3-Butadiene	ND	5.00		µg/L	1	3/15/2023 3:05:00 PM
1,4-Dioxane	ND	25.0		µg/L	1	3/15/2023 3:05:00 PM
2,2-Dichloropropane	ND	5.00		µg/L	1	3/15/2023 3:05:00 PM
2-Butanone	ND	25.0		µg/L	1	3/15/2023 3:05:00 PM
2-Nitropropane	ND	50.0		µg/L	1	3/15/2023 3:05:00 PM
Acrylonitrile (2-propenenitrile)	ND	30.0		µg/L	1	3/15/2023 3:05:00 PM
Allyl chloride	ND	5.00		µg/L	1	3/15/2023 3:05:00 PM
Carbon disulfide	ND	5.00		µg/L	1	3/15/2023 3:05:00 PM
Chloroprene	ND	5.00		µg/L	1	3/15/2023 3:05:00 PM
Cyclohexanone	ND	5.00		µg/L	1	3/15/2023 3:05:00 PM
Ethyl Ether	ND	10.0		µg/L	1	3/15/2023 3:05:00 PM
Epichlorohydrin	ND	20.0		µg/L	1	3/15/2023 3:05:00 PM
ETBE	ND	5.00		µg/L	1	3/15/2023 3:05:00 PM
Ethanol	ND	20.0		µg/L	1	3/15/2023 3:05:00 PM
Ethyl acrylate	ND	5.00		µg/L	1	3/15/2023 3:05:00 PM
Ethyl methacrylate	ND	5.00		µg/L	1	3/15/2023 3:05:00 PM
Hexachloroethane	ND	5.00		µg/L	1	3/15/2023 3:05:00 PM
Diisopropyl ether (DIPE)	ND	5.00		µg/L	1	3/15/2023 3:05:00 PM
Methacrylonitrile	ND	5.00		µg/L	1	3/15/2023 3:05:00 PM
Methyl acrylate	ND	5.00		µg/L	1	3/15/2023 3:05:00 PM
Methyl methacrylate	ND	5.00		µg/L	1	3/15/2023 3:05:00 PM
Propionitrile	ND	5.00		µg/L	1	3/15/2023 3:05:00 PM
trans-1,4-Dichloro-2-butene	ND	5.00		µg/L	1	3/15/2023 3:05:00 PM
Vinyl acetate	ND	5.00		µg/L	1	3/15/2023 3:05:00 PM
1,2,3-Trimethylbenzene	ND	5.00		µg/L	1	3/15/2023 3:05:00 PM
Surr: 4-Bromofluorobenzene	98.2	70	-	130	%Rec	1 3/16/2023 4:32:00 PM

<b>Qualifiers:</b>	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
	J Analyte detected below quantitation limits	

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#: 23030988

Date Reported: 3/22/2023

**CLIENT:** OhioEPA-DDAGW  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030988-009  
**Client Sample ID:** Trip Blank 1

**Collection Date:**  
**Matrix:** DRINKING WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>VOC ANALYSIS (8260D)</b>					<b>SW8260</b>	Analyst: ZDA
<b>VOC BY GC/MS (8260D)</b>						
Surr: 4-Bromofluorobenzene	97.6	70	-	130	%Rec	1 3/15/2023 3:05:00 PM
Surr: Dibromofluoromethane	102	70	-	130	%Rec	1 3/15/2023 3:05:00 PM
Surr: Dibromofluoromethane	99.4	70	-	130	%Rec	1 3/16/2023 4:32:00 PM
Surr: Toluene-d8	99.0	70	-	130	%Rec	1 3/15/2023 3:05:00 PM
Surr: Toluene-d8	101	70	-	130	%Rec	1 3/16/2023 4:32:00 PM
<b>VOC TENTATIVELY IDENTIFIED COMPOUNDS (TICS)</b>					<b>SW8260</b>	Analyst: ZDA
TIC: 1-Chlorobutane	ND		J	µg/L	1	3/15/2023 3:05:00 PM
TIC: 1-Methylnaphthalene	ND		J	µg/L	1	3/15/2023 3:05:00 PM
TIC: 2-Butyloxyethyl acetate	ND		J	µg/L	1	3/15/2023 3:05:00 PM
TIC: 2-Ethylhexyl acrylate	ND		J	µg/L	1	3/15/2023 3:05:00 PM
TIC: Benzyl chloride	ND		J	µg/L	1	3/15/2023 3:05:00 PM
TIC: Bromoethane	ND		J	µg/L	1	3/15/2023 3:05:00 PM
TIC: Chloroacetonitrile	ND		J	µg/L	1	3/15/2023 3:05:00 PM
TIC: n-Butyl acrylate	ND		J	µg/L	1	3/15/2023 3:05:00 PM
TIC: Pentachloroethane	ND		J	µg/L	1	3/15/2023 3:05:00 PM

<b>Qualifiers:</b>	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
	J Analyte detected below quantitation limits	

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# Analytical Report

(consolidated)

WO#: 23030988

Date Reported: 3/22/2023

**CLIENT:** OhioEPA-DDAGW  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030988-010  
**Client Sample ID:** Trip Blank 2

**Collection Date:**

**Matrix:** DRINKING WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA504.-DW</b>				<b>E504.1</b>	<b>E504.1</b>	Analyst: <b>PGP</b>
<b>EDB, DBCP, 123TCP BY GC (EPA 504.1)</b>						
Dibromochloropropane	ND	0.0400		µg/L	1	3/17/2023 7:01:00 AM
Ethylene dibromide	ND	0.0200		µg/L	1	3/17/2023 7:01:00 AM
<b>DRINKING WATER VOCS (EPA 524.2)</b>				<b>E524.2</b>		Analyst: <b>ALS</b>
<b>VOC-GC/MS (524.2)</b>						
1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	3/15/2023 11:44:00 PM
1,1,1-Trichloroethane	ND	0.500		µg/L	1	3/15/2023 11:44:00 PM
1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	3/15/2023 11:44:00 PM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	3/15/2023 11:44:00 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/15/2023 11:44:00 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	3/15/2023 11:44:00 PM
1,1-Dichloropropene	ND	0.500		µg/L	1	3/15/2023 11:44:00 PM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	3/15/2023 11:44:00 PM
1,2,3-Trichloropropane	ND	0.500		µg/L	1	3/15/2023 11:44:00 PM
1,2,4-Trichlorobenzene	ND	0.500		µg/L	1	3/15/2023 11:44:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	3/15/2023 11:44:00 PM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	3/15/2023 11:44:00 PM
1,2-Dichloroethane	ND	0.500		µg/L	1	3/15/2023 11:44:00 PM
1,2-Dichloropropane	ND	0.500		µg/L	1	3/15/2023 11:44:00 PM
1,3,5-Trimethylbenzene	ND	0.500		µg/L	1	3/15/2023 11:44:00 PM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	3/15/2023 11:44:00 PM
1,3-Dichloropropane	ND	0.500		µg/L	1	3/15/2023 11:44:00 PM
1,3-Dichloropropene, Total	ND	1.00		µg/L	1	3/15/2023 11:44:00 PM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	3/15/2023 11:44:00 PM
2-Chlorotoluene	ND	0.500		µg/L	1	3/15/2023 11:44:00 PM
2-Hexanone	ND	5.00		µg/L	1	3/15/2023 11:44:00 PM
4-Chlorotoluene	ND	0.500		µg/L	1	3/15/2023 11:44:00 PM
4-Methyl-2-pentanone	ND	5.00		µg/L	1	3/15/2023 11:44:00 PM
Acetone	ND	5.00		µg/L	1	3/15/2023 11:44:00 PM
Benzene	ND	0.500		µg/L	1	3/15/2023 11:44:00 PM
Bromobenzene	ND	0.500		µg/L	1	3/15/2023 11:44:00 PM
Bromodichloromethane	ND	0.500		µg/L	1	3/15/2023 11:44:00 PM
Bromoform	ND	0.500		µg/L	1	3/16/2023 6:48:00 PM
Bromomethane	ND	1.00		µg/L	1	3/15/2023 11:44:00 PM

<b>Qualifiers:</b>	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
	J	Analyte detected below quantitation limits		

Original



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# Analytical Report

(consolidated)

WO#: 23030988

Date Reported: 3/22/2023

**CLIENT:** OhioEPA-DDAGW  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030988-010  
**Client Sample ID:** Trip Blank 2

**Collection Date:**

**Matrix:** DRINKING WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DRINKING WATER VOCS (EPA 524.2)</b>				<b>E524.2</b>	Analyst: ALS	
<b>VOC-GC/MS (524.2)</b>						
Carbon tetrachloride	ND	0.500		µg/L	1	3/15/2023 11:44:00 PM
Chlorobenzene	ND	0.500		µg/L	1	3/15/2023 11:44:00 PM
Chlorobromomethane	ND	0.500		µg/L	1	3/15/2023 11:44:00 PM
Chlorodibromomethane	ND	0.500		µg/L	1	3/15/2023 11:44:00 PM
Chloroethane	ND	0.500		µg/L	1	3/15/2023 11:44:00 PM
Chloroform	ND	0.500		µg/L	1	3/15/2023 11:44:00 PM
Chloromethane	ND	0.500		µg/L	1	3/15/2023 11:44:00 PM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	3/15/2023 11:44:00 PM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	3/15/2023 11:44:00 PM
Dibromomethane	ND	0.500		µg/L	1	3/15/2023 11:44:00 PM
Dichlorodifluoromethane	ND	0.500		µg/L	1	3/15/2023 11:44:00 PM
Ethylbenzene	ND	0.500		µg/L	1	3/15/2023 11:44:00 PM
Hexachloro-1,3-butadiene	ND	0.500		µg/L	1	3/15/2023 11:44:00 PM
Isopropylbenzene	ND	0.500		µg/L	1	3/15/2023 11:44:00 PM
m,p-Xylene	ND	0.500		µg/L	1	3/15/2023 11:44:00 PM
Methylene chloride	ND	0.500		µg/L	1	3/15/2023 11:44:00 PM
MTBE	ND	0.500		µg/L	1	3/15/2023 11:44:00 PM
n-Butylbenzene	ND	0.500		µg/L	1	3/15/2023 11:44:00 PM
n-Propylbenzene	ND	0.500		µg/L	1	3/15/2023 11:44:00 PM
o-Xylene	ND	0.500		µg/L	1	3/15/2023 11:44:00 PM
p-Isopropyltoluene	ND	0.500		µg/L	1	3/15/2023 11:44:00 PM
sec-Butylbenzene	ND	0.500		µg/L	1	3/15/2023 11:44:00 PM
Styrene	ND	0.500		µg/L	1	3/15/2023 11:44:00 PM
Tert-amyl methyl ether	ND	0.500		µg/L	1	3/15/2023 11:44:00 PM
Tert-butyl Alcohol	ND	5.00		µg/L	1	3/15/2023 11:44:00 PM
tert-Butylbenzene	ND	0.500		µg/L	1	3/15/2023 11:44:00 PM
Tetrachloroethene	ND	0.500		µg/L	1	3/15/2023 11:44:00 PM
Toluene	ND	0.500		µg/L	1	3/15/2023 11:44:00 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	3/15/2023 11:44:00 PM
trans-1,3-Dichloropropene	ND	0.500		µg/L	1	3/15/2023 11:44:00 PM
Trichloroethene	ND	0.500		µg/L	1	3/15/2023 11:44:00 PM
Trichlorofluoromethane	ND	0.500		µg/L	1	3/15/2023 11:44:00 PM
Vinyl chloride	ND	0.500		µg/L	1	3/15/2023 11:44:00 PM
Xylenes, Total	ND	0.500		µg/L	1	3/15/2023 11:44:00 PM

<b>Qualifiers:</b>	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
	J	Analyte detected below quantitation limits		

Original





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# Analytical Report

(consolidated)

WO#: 23030988

Date Reported: 3/22/2023

**CLIENT:** OhioEPA-DDAGW  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030988-010  
**Client Sample ID:** Trip Blank 2

**Collection Date:**  
**Matrix:** DRINKING WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DRINKING WATER VOCS (EPA 524.2)</b>				<b>E524.2</b>	Analyst: ALS	
<b>VOC-GC/MS (524.2)</b>						
Surr: 1,2-Dichlorobenzene-d4	82.7	70	-	%Rec	1	3/15/2023 11:44:00 PM
Surr: 1,2-Dichlorobenzene-d4	84.8	70	-	%Rec	1	3/16/2023 6:48:00 PM
Surr: 4-Bromofluorobenzene	83.8	70	-	%Rec	1	3/16/2023 6:48:00 PM
Surr: 4-Bromofluorobenzene	79.9	70	-	%Rec	1	3/15/2023 11:44:00 PM
<b>VOC ANALYSIS (8260D)</b>				<b>SW8260</b>	Analyst: ZDA	
<b>VOC BY GC/MS (8260D)</b>						
Freon-113	ND	5.00		µg/L	1	3/16/2023 4:57:00 PM
1,3-Butadiene	ND	5.00		µg/L	1	3/15/2023 3:29:00 PM
1,4-Dioxane	ND	25.0		µg/L	1	3/15/2023 3:29:00 PM
2,2-Dichloropropane	ND	5.00		µg/L	1	3/15/2023 3:29:00 PM
2-Butanone	ND	25.0		µg/L	1	3/15/2023 3:29:00 PM
2-Nitropropane	ND	50.0		µg/L	1	3/15/2023 3:29:00 PM
Acrylonitrile (2-propenenitrile)	ND	30.0		µg/L	1	3/15/2023 3:29:00 PM
Allyl chloride	ND	5.00		µg/L	1	3/15/2023 3:29:00 PM
Carbon disulfide	ND	5.00		µg/L	1	3/15/2023 3:29:00 PM
Chloroprene	ND	5.00		µg/L	1	3/15/2023 3:29:00 PM
Cyclohexanone	ND	5.00		µg/L	1	3/15/2023 3:29:00 PM
Ethyl Ether	ND	10.0		µg/L	1	3/15/2023 3:29:00 PM
Epichlorohydrin	ND	20.0		µg/L	1	3/15/2023 3:29:00 PM
ETBE	ND	5.00		µg/L	1	3/15/2023 3:29:00 PM
Ethanol	ND	20.0		µg/L	1	3/15/2023 3:29:00 PM
Ethyl acrylate	ND	5.00		µg/L	1	3/15/2023 3:29:00 PM
Ethyl methacrylate	ND	5.00		µg/L	1	3/15/2023 3:29:00 PM
Hexachloroethane	ND	5.00		µg/L	1	3/15/2023 3:29:00 PM
Diisopropyl ether (DIPE)	ND	5.00		µg/L	1	3/15/2023 3:29:00 PM
Methacrylonitrile	ND	5.00		µg/L	1	3/15/2023 3:29:00 PM
Methyl acrylate	ND	5.00		µg/L	1	3/15/2023 3:29:00 PM
Methyl methacrylate	ND	5.00		µg/L	1	3/15/2023 3:29:00 PM
Propionitrile	ND	5.00		µg/L	1	3/15/2023 3:29:00 PM
trans-1,4-Dichloro-2-butene	ND	5.00		µg/L	1	3/15/2023 3:29:00 PM
Vinyl acetate	ND	5.00		µg/L	1	3/15/2023 3:29:00 PM
1,2,3-Trimethylbenzene	ND	5.00		µg/L	1	3/15/2023 3:29:00 PM
Surr: 4-Bromofluorobenzene	99.6	70	-	%Rec	1	3/16/2023 4:57:00 PM

<b>Qualifiers:</b>	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
	J	Analyte detected below quantitation limits		

Original





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# Analytical Report

(consolidated)

WO#: 23030988

Date Reported: 3/22/2023

**CLIENT:** OhioEPA-DDAGW  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030988-010  
**Client Sample ID:** Trip Blank 2

**Collection Date:**

**Matrix:** DRINKING WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>VOC ANALYSIS (8260D)</b>					<b>SW8260</b>	Analyst: ZDA
<b>VOC BY GC/MS (8260D)</b>						
Surr: 4-Bromofluorobenzene	100	70	-	130	%Rec	1 3/15/2023 3:29:00 PM
Surr: Dibromofluoromethane	102	70	-	130	%Rec	1 3/15/2023 3:29:00 PM
Surr: Dibromofluoromethane	97.8	70	-	130	%Rec	1 3/16/2023 4:57:00 PM
Surr: Toluene-d8	99.3	70	-	130	%Rec	1 3/15/2023 3:29:00 PM
Surr: Toluene-d8	101	70	-	130	%Rec	1 3/16/2023 4:57:00 PM

<b>VOC TENTATIVELY IDENTIFIED COMPOUNDS (TICS)</b>					<b>SW8260</b>	Analyst: ZDA
TIC: 1-Chlorobutane	ND		J	µg/L	1	3/15/2023 3:29:00 PM
TIC: 1-Methylnaphthalene	ND		J	µg/L	1	3/15/2023 3:29:00 PM
TIC: 2-Butyloxyethyl acetate	ND		J	µg/L	1	3/15/2023 3:29:00 PM
TIC: 2-Ethylhexyl acrylate	ND		J	µg/L	1	3/15/2023 3:29:00 PM
TIC: Benzyl chloride	ND		J	µg/L	1	3/15/2023 3:29:00 PM
TIC: Bromoethane	ND		J	µg/L	1	3/15/2023 3:29:00 PM
TIC: Chloroacetonitrile	ND		J	µg/L	1	3/15/2023 3:29:00 PM
TIC: n-Butyl acrylate	ND		J	µg/L	1	3/15/2023 3:29:00 PM
TIC: Pentachloroethane	ND		J	µg/L	1	3/15/2023 3:29:00 PM

<b>Qualifiers:</b>	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
	J	Analyte detected below quantitation limits		

Original



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# Analytical Report

(consolidated)

WO#: 23030988

Date Reported: 3/22/2023

**CLIENT:** OhioEPA-DDAGW

**Collection Date:**

**Project:** Ohio EPA PWS-EP

**Lab ID:** 23030988-011

**Matrix:** DRINKING WATER

**Client Sample ID:** Trip Blank 3

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA504.-DW</b>					<b>E504.1</b>	<b>E504.1</b>
<b>EDB, DBCP, 123TCP BY GC (EPA 504.1)</b>						Analyst: <b>PGP</b>
Dibromochloropropane	ND	0.0400		µg/L	1	3/17/2023 7:23:00 AM
Ethylene dibromide	ND	0.0200		µg/L	1	3/17/2023 7:23:00 AM
<b>DRINKING WATER VOCS (EPA 524.2)</b>					<b>E524.2</b>	Analyst: <b>ALS</b>
<b>VOC-GC/MS (524.2)</b>						
1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	3/16/2023 12:13:00 AM
1,1,1-Trichloroethane	ND	0.500		µg/L	1	3/16/2023 12:13:00 AM
1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	3/16/2023 12:13:00 AM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	3/16/2023 12:13:00 AM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/16/2023 12:13:00 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	3/16/2023 12:13:00 AM
1,1-Dichloropropene	ND	0.500		µg/L	1	3/16/2023 12:13:00 AM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	3/16/2023 12:13:00 AM
1,2,3-Trichloropropane	ND	0.500		µg/L	1	3/16/2023 12:13:00 AM
1,2,4-Trichlorobenzene	ND	0.500		µg/L	1	3/16/2023 12:13:00 AM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	3/16/2023 12:13:00 AM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	3/16/2023 12:13:00 AM
1,2-Dichloroethane	ND	0.500		µg/L	1	3/16/2023 12:13:00 AM
1,2-Dichloropropane	ND	0.500		µg/L	1	3/16/2023 12:13:00 AM
1,3,5-Trimethylbenzene	ND	0.500		µg/L	1	3/16/2023 12:13:00 AM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	3/16/2023 12:13:00 AM
1,3-Dichloropropane	ND	0.500		µg/L	1	3/16/2023 12:13:00 AM
1,3-Dichloropropene, Total	ND	1.00		µg/L	1	3/16/2023 12:13:00 AM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	3/16/2023 12:13:00 AM
2-Chlorotoluene	ND	0.500		µg/L	1	3/16/2023 12:13:00 AM
2-Hexanone	ND	5.00		µg/L	1	3/16/2023 12:13:00 AM
4-Chlorotoluene	ND	0.500		µg/L	1	3/16/2023 12:13:00 AM
4-Methyl-2-pentanone	ND	5.00		µg/L	1	3/16/2023 12:13:00 AM
Acetone	ND	5.00		µg/L	1	3/16/2023 12:13:00 AM
Benzene	ND	0.500		µg/L	1	3/16/2023 12:13:00 AM
Bromobenzene	ND	0.500		µg/L	1	3/16/2023 12:13:00 AM
Bromodichloromethane	ND	0.500		µg/L	1	3/16/2023 12:13:00 AM
Bromoform	ND	0.500		µg/L	1	3/16/2023 7:18:00 PM
Bromomethane	ND	1.00		µg/L	1	3/16/2023 12:13:00 AM

<b>Qualifiers:</b>	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
	J	Analyte detected below quantitation limits		

Original



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

# Analytical Report

(consolidated)

WO#: 23030988

Date Reported: 3/22/2023

**CLIENT:** OhioEPA-DDAGW  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030988-011  
**Client Sample ID:** Trip Blank 3

**Collection Date:**  
**Matrix:** DRINKING WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DRINKING WATER VOCS (EPA 524.2)</b>				<b>E524.2</b>	Analyst: ALS	
<b>VOC-GC/MS (524.2)</b>						
Carbon tetrachloride	ND	0.500		µg/L	1	3/16/2023 12:13:00 AM
Chlorobenzene	ND	0.500		µg/L	1	3/16/2023 12:13:00 AM
Chlorobromomethane	ND	0.500		µg/L	1	3/16/2023 12:13:00 AM
Chlorodibromomethane	ND	0.500		µg/L	1	3/16/2023 12:13:00 AM
Chloroethane	ND	0.500		µg/L	1	3/16/2023 12:13:00 AM
Chloroform	ND	0.500		µg/L	1	3/16/2023 12:13:00 AM
Chloromethane	ND	0.500		µg/L	1	3/16/2023 12:13:00 AM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	3/16/2023 12:13:00 AM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	3/16/2023 12:13:00 AM
Dibromomethane	ND	0.500		µg/L	1	3/16/2023 12:13:00 AM
Dichlorodifluoromethane	ND	0.500		µg/L	1	3/16/2023 12:13:00 AM
Ethylbenzene	ND	0.500		µg/L	1	3/16/2023 12:13:00 AM
Hexachloro-1,3-butadiene	ND	0.500		µg/L	1	3/16/2023 12:13:00 AM
Isopropylbenzene	ND	0.500		µg/L	1	3/16/2023 12:13:00 AM
m,p-Xylene	ND	0.500		µg/L	1	3/16/2023 12:13:00 AM
Methylene chloride	ND	0.500		µg/L	1	3/16/2023 12:13:00 AM
MTBE	ND	0.500		µg/L	1	3/16/2023 12:13:00 AM
n-Butylbenzene	ND	0.500		µg/L	1	3/16/2023 12:13:00 AM
n-Propylbenzene	ND	0.500		µg/L	1	3/16/2023 12:13:00 AM
o-Xylene	ND	0.500		µg/L	1	3/16/2023 12:13:00 AM
p-Isopropyltoluene	ND	0.500		µg/L	1	3/16/2023 12:13:00 AM
sec-Butylbenzene	ND	0.500		µg/L	1	3/16/2023 12:13:00 AM
Styrene	ND	0.500		µg/L	1	3/16/2023 12:13:00 AM
Tert-amyl methyl ether	ND	0.500		µg/L	1	3/16/2023 12:13:00 AM
Tert-butyl Alcohol	ND	5.00		µg/L	1	3/16/2023 12:13:00 AM
tert-Butylbenzene	ND	0.500		µg/L	1	3/16/2023 12:13:00 AM
Tetrachloroethene	ND	0.500		µg/L	1	3/16/2023 12:13:00 AM
Toluene	ND	0.500		µg/L	1	3/16/2023 12:13:00 AM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	3/16/2023 12:13:00 AM
trans-1,3-Dichloropropene	ND	0.500		µg/L	1	3/16/2023 12:13:00 AM
Trichloroethene	ND	0.500		µg/L	1	3/16/2023 12:13:00 AM
Trichlorofluoromethane	ND	0.500		µg/L	1	3/16/2023 12:13:00 AM
Vinyl chloride	ND	0.500		µg/L	1	3/16/2023 12:13:00 AM
Xylenes, Total	ND	0.500		µg/L	1	3/16/2023 12:13:00 AM

<b>Qualifiers:</b>	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
	J	Analyte detected below quantitation limits		

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# Analytical Report

(consolidated)

WO#: 23030988

Date Reported: 3/22/2023

**CLIENT:** OhioEPA-DDAGW  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030988-011  
**Client Sample ID:** Trip Blank 3

**Collection Date:**

**Matrix:** DRINKING WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DRINKING WATER VOCS (EPA 524.2)</b>				<b>E524.2</b>	Analyst: ALS	
<b>VOC-GC/MS (524.2)</b>						
Surr: 1,2-Dichlorobenzene-d4	82.1	70	-	%Rec	1	3/16/2023 12:13:00 AM
Surr: 1,2-Dichlorobenzene-d4	83.6	70	-	%Rec	1	3/16/2023 7:18:00 PM
Surr: 4-Bromofluorobenzene	83.2	70	-	%Rec	1	3/16/2023 7:18:00 PM
Surr: 4-Bromofluorobenzene	80.9	70	-	%Rec	1	3/16/2023 12:13:00 AM
<b>VOC ANALYSIS (8260D)</b>				<b>SW8260</b>	Analyst: ZDA	
<b>VOC BY GC/MS (8260D)</b>						
Freon-113	ND	5.00		µg/L	1	3/16/2023 5:22:00 PM
1,3-Butadiene	ND	5.00		µg/L	1	3/15/2023 3:53:00 PM
1,4-Dioxane	ND	25.0		µg/L	1	3/15/2023 3:53:00 PM
2,2-Dichloropropane	ND	5.00		µg/L	1	3/15/2023 3:53:00 PM
2-Butanone	ND	25.0		µg/L	1	3/15/2023 3:53:00 PM
2-Nitropropane	ND	50.0		µg/L	1	3/15/2023 3:53:00 PM
Acrylonitrile (2-propenenitrile)	ND	30.0		µg/L	1	3/15/2023 3:53:00 PM
Allyl chloride	ND	5.00		µg/L	1	3/15/2023 3:53:00 PM
Carbon disulfide	ND	5.00		µg/L	1	3/15/2023 3:53:00 PM
Chloroprene	ND	5.00		µg/L	1	3/15/2023 3:53:00 PM
Cyclohexanone	ND	5.00		µg/L	1	3/15/2023 3:53:00 PM
Ethyl Ether	ND	10.0		µg/L	1	3/15/2023 3:53:00 PM
Epichlorohydrin	ND	20.0		µg/L	1	3/15/2023 3:53:00 PM
ETBE	ND	5.00		µg/L	1	3/15/2023 3:53:00 PM
Ethanol	ND	20.0		µg/L	1	3/15/2023 3:53:00 PM
Ethyl acrylate	ND	5.00		µg/L	1	3/15/2023 3:53:00 PM
Ethyl methacrylate	ND	5.00		µg/L	1	3/15/2023 3:53:00 PM
Hexachloroethane	ND	5.00		µg/L	1	3/15/2023 3:53:00 PM
Diisopropyl ether (DIPE)	ND	5.00		µg/L	1	3/15/2023 3:53:00 PM
Methacrylonitrile	ND	5.00		µg/L	1	3/15/2023 3:53:00 PM
Methyl acrylate	ND	5.00		µg/L	1	3/15/2023 3:53:00 PM
Methyl methacrylate	ND	5.00		µg/L	1	3/15/2023 3:53:00 PM
Propionitrile	ND	5.00		µg/L	1	3/15/2023 3:53:00 PM
trans-1,4-Dichloro-2-butene	ND	5.00		µg/L	1	3/15/2023 3:53:00 PM
Vinyl acetate	ND	5.00		µg/L	1	3/15/2023 3:53:00 PM
1,2,3-Trimethylbenzene	ND	5.00		µg/L	1	3/15/2023 3:53:00 PM
Surr: 4-Bromofluorobenzene	100	70	-	%Rec	1	3/16/2023 5:22:00 PM

<b>Qualifiers:</b>	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
	J	Analyte detected below quantitation limits		

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# Analytical Report

(consolidated)

WO#: 23030988

Date Reported: 3/22/2023

**CLIENT:** OhioEPA-DDAGW  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030988-011  
**Client Sample ID:** Trip Blank 3

**Collection Date:**

**Matrix:** DRINKING WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>VOC ANALYSIS (8260D)</b>				<b>SW8260</b>		Analyst: ZDA
<b>VOC BY GC/MS (8260D)</b>						
Surr: 4-Bromofluorobenzene	96.9	70 - 130	%Rec		1	3/15/2023 3:53:00 PM
Surr: Dibromofluoromethane	104	70 - 130	%Rec		1	3/15/2023 3:53:00 PM
Surr: Dibromofluoromethane	102	70 - 130	%Rec		1	3/16/2023 5:22:00 PM
Surr: Toluene-d8	99.3	70 - 130	%Rec		1	3/15/2023 3:53:00 PM
Surr: Toluene-d8	99.6	70 - 130	%Rec		1	3/16/2023 5:22:00 PM
<b>VOC TENTATIVELY IDENTIFIED COMPOUNDS (TICS)</b>				<b>SW8260</b>		Analyst: ZDA
TIC: 1-Chlorobutane	ND		J	µg/L	1	3/15/2023 3:53:00 PM
TIC: 1-Methylnaphthalene	ND		J	µg/L	1	3/15/2023 3:53:00 PM
TIC: 2-Butyloxyethyl acetate	ND		J	µg/L	1	3/15/2023 3:53:00 PM
TIC: 2-Ethylhexyl acrylate	ND		J	µg/L	1	3/15/2023 3:53:00 PM
TIC: Benzyl chloride	ND		J	µg/L	1	3/15/2023 3:53:00 PM
TIC: Bromoethane	ND		J	µg/L	1	3/15/2023 3:53:00 PM
TIC: Chloroacetonitrile	ND		J	µg/L	1	3/15/2023 3:53:00 PM
TIC: n-Butyl acrylate	ND		J	µg/L	1	3/15/2023 3:53:00 PM
TIC: Pentachloroethane	ND		J	µg/L	1	3/15/2023 3:53:00 PM

<b>Qualifiers:</b>	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	M	Manual Integration used to determine area response	ND	Not Detected
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	RL	Reporting Detection Limit	W	Sample container temperature is out of limit as specified at testcode
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# Analytical Report

(consolidated)

WO#: 23030988

Date Reported: 3/22/2023

**CLIENT:** OhioEPA-DDAGW

**Collection Date:**

**Project:** Ohio EPA PWS-EP

**Lab ID:** 23030988-012

**Matrix:** DRINKING WATER

**Client Sample ID:** Trip Blank 4

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA504.-DW</b>					<b>E504.1</b>	<b>E504.1</b>
<b>EDB, DBCP, 123TCP BY GC (EPA 504.1)</b>						Analyst: <b>PGP</b>
Dibromochloropropane	ND	0.0400		µg/L	1	3/17/2023 7:44:00 AM
Ethylene dibromide	ND	0.0200		µg/L	1	3/17/2023 7:44:00 AM
<b>DRINKING WATER VOCS (EPA 524.2)</b>					<b>E524.2</b>	Analyst: <b>ALS</b>
<b>VOC-GC/MS (524.2)</b>						
1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	3/16/2023 12:42:00 AM
1,1,1-Trichloroethane	ND	0.500		µg/L	1	3/16/2023 12:42:00 AM
1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	3/16/2023 12:42:00 AM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	3/16/2023 12:42:00 AM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/16/2023 12:42:00 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	3/16/2023 12:42:00 AM
1,1-Dichloropropene	ND	0.500		µg/L	1	3/16/2023 12:42:00 AM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	3/16/2023 12:42:00 AM
1,2,3-Trichloropropane	ND	0.500		µg/L	1	3/16/2023 12:42:00 AM
1,2,4-Trichlorobenzene	ND	0.500		µg/L	1	3/16/2023 12:42:00 AM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	3/16/2023 12:42:00 AM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	3/16/2023 12:42:00 AM
1,2-Dichloroethane	ND	0.500		µg/L	1	3/16/2023 12:42:00 AM
1,2-Dichloropropane	ND	0.500		µg/L	1	3/16/2023 12:42:00 AM
1,3,5-Trimethylbenzene	ND	0.500		µg/L	1	3/16/2023 12:42:00 AM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	3/16/2023 12:42:00 AM
1,3-Dichloropropane	ND	0.500		µg/L	1	3/16/2023 12:42:00 AM
1,3-Dichloropropene, Total	ND	1.00		µg/L	1	3/16/2023 12:42:00 AM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	3/16/2023 12:42:00 AM
2-Chlorotoluene	ND	0.500		µg/L	1	3/16/2023 12:42:00 AM
2-Hexanone	ND	5.00		µg/L	1	3/16/2023 12:42:00 AM
4-Chlorotoluene	ND	0.500		µg/L	1	3/16/2023 12:42:00 AM
4-Methyl-2-pentanone	ND	5.00		µg/L	1	3/16/2023 12:42:00 AM
Acetone	ND	5.00		µg/L	1	3/16/2023 12:42:00 AM
Benzene	ND	0.500		µg/L	1	3/16/2023 12:42:00 AM
Bromobenzene	ND	0.500		µg/L	1	3/16/2023 12:42:00 AM
Bromodichloromethane	ND	0.500		µg/L	1	3/16/2023 12:42:00 AM
Bromoform	ND	0.500		µg/L	1	3/16/2023 7:47:00 PM
Bromomethane	ND	1.00		µg/L	1	3/16/2023 12:42:00 AM

<b>Qualifiers:</b>	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#: 23030988

Date Reported: 3/22/2023

**CLIENT:** OhioEPA-DDAGW  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030988-012  
**Client Sample ID:** Trip Blank 4

**Collection Date:**

**Matrix:** DRINKING WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DRINKING WATER VOCS (EPA 524.2)</b>				<b>E524.2</b>	Analyst: ALS	
<b>VOC-GC/MS (524.2)</b>						
Carbon tetrachloride	ND	0.500		µg/L	1	3/16/2023 12:42:00 AM
Chlorobenzene	ND	0.500		µg/L	1	3/16/2023 12:42:00 AM
Chlorobromomethane	ND	0.500		µg/L	1	3/16/2023 12:42:00 AM
Chlorodibromomethane	ND	0.500		µg/L	1	3/16/2023 12:42:00 AM
Chloroethane	ND	0.500		µg/L	1	3/16/2023 12:42:00 AM
Chloroform	ND	0.500		µg/L	1	3/16/2023 12:42:00 AM
Chloromethane	ND	0.500		µg/L	1	3/16/2023 12:42:00 AM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	3/16/2023 12:42:00 AM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	3/16/2023 12:42:00 AM
Dibromomethane	ND	0.500		µg/L	1	3/16/2023 12:42:00 AM
Dichlorodifluoromethane	ND	0.500		µg/L	1	3/16/2023 12:42:00 AM
Ethylbenzene	ND	0.500		µg/L	1	3/16/2023 12:42:00 AM
Hexachloro-1,3-butadiene	ND	0.500		µg/L	1	3/16/2023 12:42:00 AM
Isopropylbenzene	ND	0.500		µg/L	1	3/16/2023 12:42:00 AM
m,p-Xylene	ND	0.500		µg/L	1	3/16/2023 12:42:00 AM
Methylene chloride	ND	0.500		µg/L	1	3/16/2023 12:42:00 AM
MTBE	ND	0.500		µg/L	1	3/16/2023 12:42:00 AM
n-Butylbenzene	ND	0.500		µg/L	1	3/16/2023 12:42:00 AM
n-Propylbenzene	ND	0.500		µg/L	1	3/16/2023 12:42:00 AM
o-Xylene	ND	0.500		µg/L	1	3/16/2023 12:42:00 AM
p-Isopropyltoluene	ND	0.500		µg/L	1	3/16/2023 12:42:00 AM
sec-Butylbenzene	ND	0.500		µg/L	1	3/16/2023 12:42:00 AM
Styrene	ND	0.500		µg/L	1	3/16/2023 12:42:00 AM
Tert-amyl methyl ether	ND	0.500		µg/L	1	3/16/2023 12:42:00 AM
Tert-butyl Alcohol	ND	5.00		µg/L	1	3/16/2023 12:42:00 AM
tert-Butylbenzene	ND	0.500		µg/L	1	3/16/2023 12:42:00 AM
Tetrachloroethene	ND	0.500		µg/L	1	3/16/2023 12:42:00 AM
Toluene	ND	0.500		µg/L	1	3/16/2023 12:42:00 AM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	3/16/2023 12:42:00 AM
trans-1,3-Dichloropropene	ND	0.500		µg/L	1	3/16/2023 12:42:00 AM
Trichloroethene	ND	0.500		µg/L	1	3/16/2023 12:42:00 AM
Trichlorofluoromethane	ND	0.500		µg/L	1	3/16/2023 12:42:00 AM
Vinyl chloride	ND	0.500		µg/L	1	3/16/2023 12:42:00 AM
Xylenes, Total	ND	0.500		µg/L	1	3/16/2023 12:42:00 AM

<b>Qualifiers:</b>	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#: 23030988

Date Reported: 3/22/2023

**CLIENT:** OhioEPA-DDAGW  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030988-012  
**Client Sample ID:** Trip Blank 4

**Collection Date:**

**Matrix:** DRINKING WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DRINKING WATER VOCS (EPA 524.2)</b>				<b>E524.2</b>	Analyst: ALS	
<b>VOC-GC/MS (524.2)</b>						
Surr: 1,2-Dichlorobenzene-d4	83.0	70	-	%Rec	1	3/16/2023 12:42:00 AM
Surr: 1,2-Dichlorobenzene-d4	86.3	70	-	%Rec	1	3/16/2023 7:47:00 PM
Surr: 4-Bromofluorobenzene	83.1	70	-	%Rec	1	3/16/2023 7:47:00 PM
Surr: 4-Bromofluorobenzene	80.5	70	-	%Rec	1	3/16/2023 12:42:00 AM
<b>VOC ANALYSIS (8260D)</b>				<b>SW8260</b>	Analyst: ZDA	
<b>VOC BY GC/MS (8260D)</b>						
Freon-113	ND	5.00		µg/L	1	3/16/2023 5:47:00 PM
1,3-Butadiene	ND	5.00		µg/L	1	3/15/2023 4:16:00 PM
1,4-Dioxane	ND	25.0		µg/L	1	3/15/2023 4:16:00 PM
2,2-Dichloropropane	ND	5.00		µg/L	1	3/15/2023 4:16:00 PM
2-Butanone	ND	25.0		µg/L	1	3/15/2023 4:16:00 PM
2-Nitropropane	ND	50.0		µg/L	1	3/15/2023 4:16:00 PM
Acrylonitrile (2-propenenitrile)	ND	30.0		µg/L	1	3/15/2023 4:16:00 PM
Allyl chloride	ND	5.00		µg/L	1	3/15/2023 4:16:00 PM
Carbon disulfide	ND	5.00		µg/L	1	3/15/2023 4:16:00 PM
Chloroprene	ND	5.00		µg/L	1	3/15/2023 4:16:00 PM
Cyclohexanone	ND	5.00		µg/L	1	3/15/2023 4:16:00 PM
Ethyl Ether	ND	10.0		µg/L	1	3/15/2023 4:16:00 PM
Epichlorohydrin	ND	20.0		µg/L	1	3/15/2023 4:16:00 PM
ETBE	ND	5.00		µg/L	1	3/15/2023 4:16:00 PM
Ethanol	ND	20.0		µg/L	1	3/15/2023 4:16:00 PM
Ethyl acrylate	ND	5.00		µg/L	1	3/15/2023 4:16:00 PM
Ethyl methacrylate	ND	5.00		µg/L	1	3/15/2023 4:16:00 PM
Hexachloroethane	ND	5.00		µg/L	1	3/15/2023 4:16:00 PM
Diisopropyl ether (DIPE)	ND	5.00		µg/L	1	3/15/2023 4:16:00 PM
Methacrylonitrile	ND	5.00		µg/L	1	3/15/2023 4:16:00 PM
Methyl acrylate	ND	5.00		µg/L	1	3/15/2023 4:16:00 PM
Methyl methacrylate	ND	5.00		µg/L	1	3/15/2023 4:16:00 PM
Propionitrile	ND	5.00		µg/L	1	3/15/2023 4:16:00 PM
trans-1,4-Dichloro-2-butene	ND	5.00		µg/L	1	3/15/2023 4:16:00 PM
Vinyl acetate	ND	5.00		µg/L	1	3/15/2023 4:16:00 PM
1,2,3-Trimethylbenzene	ND	5.00		µg/L	1	3/15/2023 4:16:00 PM
Surr: 4-Bromofluorobenzene	98.9	70	-	%Rec	1	3/16/2023 5:47:00 PM

<b>Qualifiers:</b>	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
	J	Analyte detected below quantitation limits		

Original



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# Analytical Report

(consolidated)

WO#: 23030988

Date Reported: 3/22/2023

**CLIENT:** OhioEPA-DDAGW  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030988-012  
**Client Sample ID:** Trip Blank 4

**Collection Date:**

**Matrix:** DRINKING WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>VOC ANALYSIS (8260D)</b>					<b>SW8260</b>	Analyst: ZDA
<b>VOC BY GC/MS (8260D)</b>						
Surr: 4-Bromofluorobenzene	97.3	70	-	130	%Rec	1 3/15/2023 4:16:00 PM
Surr: Dibromofluoromethane	103	70	-	130	%Rec	1 3/15/2023 4:16:00 PM
Surr: Dibromofluoromethane	99.0	70	-	130	%Rec	1 3/16/2023 5:47:00 PM
Surr: Toluene-d8	99.6	70	-	130	%Rec	1 3/15/2023 4:16:00 PM
Surr: Toluene-d8	103	70	-	130	%Rec	1 3/16/2023 5:47:00 PM

<b>VOC TENTATIVELY IDENTIFIED COMPOUNDS (TICS)</b>					<b>SW8260</b>	Analyst: ZDA
TIC: 1-Chlorobutane	ND		J	µg/L	1	3/15/2023 4:16:00 PM
TIC: 1-Methylnaphthalene	ND		J	µg/L	1	3/15/2023 4:16:00 PM
TIC: 2-Butyloxyethyl acetate	ND		J	µg/L	1	3/15/2023 4:16:00 PM
TIC: 2-Ethylhexyl acrylate	ND		J	µg/L	1	3/15/2023 4:16:00 PM
TIC: Benzyl chloride	ND		J	µg/L	1	3/15/2023 4:16:00 PM
TIC: Bromoethane	ND		J	µg/L	1	3/15/2023 4:16:00 PM
TIC: Chloroacetonitrile	ND		J	µg/L	1	3/15/2023 4:16:00 PM
TIC: n-Butyl acrylate	ND		J	µg/L	1	3/15/2023 4:16:00 PM
TIC: Pentachloroethane	ND		J	µg/L	1	3/15/2023 4:16:00 PM

<b>Qualifiers:</b>	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
	J	Analyte detected below quantitation limits		

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# QC SUMMARY REPORT

WO#: 23030988  
 22-Mar-23

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

**BatchID:** 63549

Sample ID: <b>MB-63549</b>	SampType: <b>MBLK</b>	TestCode: <b>SVOC-MSTR</b>	Units: <b>µg/L</b>	Prep Date: <b>3/15/2023</b>	RunNo: <b>160120</b>						
Client ID: <b>PBW</b>	Batch ID: <b>63549</b>	TestNo: <b>SW8270</b>	<b>SW3510C</b>	Analysis Date: <b>3/18/2023</b>	SeqNo: <b>4255335</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Butoxyethanol	ND	30.0		0	0						
Benzoic acid	ND	16.0		0	0						QC+
2,6-Dinitrotoluene	ND	5.00		0	0						
2-Methylnaphthalene	ND	5.00		0	0						
3,3'-Dichlorobenzidine	ND	20.0		0	0						QC+
4-Nitrophenol	ND	5.00		0	0						QC+
Acenaphthene	ND	5.00		0	0						
Bis(2-chloroethyl) ether	ND	5.00		0	0						
Di-n-octyl phthalate	ND	5.00		0	0						QC+
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	0.0240		0.05000		48.0	20	130				
Surr: Phenol-d6	0.0147		0.05000		29.5	20	130				
Surr: Nitrobenzene-d5	0.0285		0.05000		57.0	27.4	130				
Surr: 2,4,6-Tribromophenol	0.0421		0.05000		84.1	54.3	133				
Surr: 2-Fluorobiphenyl	0.0277		0.05000		55.5	25.6	130				
Surr: p-Terphenyl-d14	0.0372		0.05000		74.5	20	181				

Sample ID: <b>LCS-63549</b>	SampType: <b>LCS</b>	TestCode: <b>SVOC-MSTR</b>	Units: <b>µg/L</b>	Prep Date: <b>3/15/2023</b>	RunNo: <b>160120</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>63549</b>	TestNo: <b>SW8270</b>	<b>SW3510C</b>	Analysis Date: <b>3/18/2023</b>	SeqNo: <b>4255335</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,6-Dinitrotoluene	47.1	5.00	40.0	0	118	64.9	130				

**Qualifiers:**

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

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# QC SUMMARY REPORT

WO#: 23030988  
 22-Mar-23

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

**BatchID:** 63549

Sample ID: LCS-63549	SampType: LCS	TestCode: SVOC-MSTR	Units: µg/L	Prep Date: 3/15/2023	RunNo: 160120						
Client ID: LCSW	Batch ID: 63549	TestNo: SW8270	SW3510C	Analysis Date: 3/18/2023	SeqNo: 4255336						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Methylnaphthalene	39.5	5.00	40.0	0	98.7	32.8	130				
3,3'-Dichlorobenzidine	62.4	20.0	80.0	0	78.0	10	281				QC+
4-Nitrophenol	33.1	5.00	40.0	0	82.8	25.1	130				QC+
Acenaphthene	40.5	5.00	40.0	0	101	43.7	130				
Bis(2-chloroethyl) ether	23.6	5.00	40.0	0	59.1	15.6	130				
Di-n-octyl phthalate	54.5	5.00	40.0	0	136	70	140				QC+
Fluoranthene	50.0	5.00	40.0	0	125	64.9	130				
Naphthalene	34.7	5.00	40.0	0	86.7	27.2	130				
Phenol	17.2	20.0	40.0	0	42.9	10	130				J
3&4-Methylphenol	32.3	5.00	40.0	0	80.8	29.7	130				
Surr: 2-Fluorophenol	0.0242		0.05000		48.5	20	130				
Surr: Phenol-d6	0.0152		0.05000		30.4	20	130				
Surr: Nitrobenzene-d5	0.0291		0.05000		58.3	27.4	130				
Surr: 2,4,6-Tribromophenol	0.0514		0.05000		103	54.3	133				
Surr: 2-Fluorobiphenyl	0.0274		0.05000		54.9	25.6	130				
Surr: p-Terphenyl-d14	0.0354		0.05000		70.7	20	181				

Sample ID: LCSD-63549	SampType: LCSD	TestCode: SVOC-MSTR	Units: µg/L	Prep Date: 3/15/2023	RunNo: 160120						
Client ID: LCSS02	Batch ID: 63549	TestNo: SW8270	SW3510C	Analysis Date: 3/18/2023	SeqNo: 4255337						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,6-Dinitrotoluene	43.6	5.00	40.0	0	109	64.9	130	47.1	7.71	30	
2-Methylnaphthalene	43.1	5.00	40.0	0	108	32.8	130	39.5	8.74	30	
3,3'-Dichlorobenzidine	64.3	20.0	80.0	0	80.3	10	281	62.4	2.91	30	QC+
4-Nitrophenol	29.4	5.00	40.0	0	73.4	25.1	130	33.1	12.0	30	QC+

**Qualifiers:**

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

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# QC SUMMARY REPORT

WO#: 23030988  
 22-Mar-23

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

**BatchID:** 63549

Sample ID: <b>LCSD-63549</b>	SampType: <b>LCSD</b>	TestCode: <b>SVOC-MSTR</b>	Units: <b>µg/L</b>	Prep Date: <b>3/15/2023</b>	RunNo: <b>160120</b>						
Client ID: <b>LCSS02</b>	Batch ID: <b>63549</b>	TestNo: <b>SW8270</b>	<b>SW3510C</b>	Analysis Date: <b>3/18/2023</b>	SeqNo: <b>4255337</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	38.4	5.00	40.0	0	96.1	43.7	130	40.5	5.18	30	
Bis(2-chloroethyl) ether	24.0	5.00	40.0	0	60.0	15.6	130	23.6	1.45	30	
Di-n-octyl phthalate	57.7	5.00	40.0	0	144	70	140	54.5	5.67	30	SQC+
Fluoranthene	51.2	5.00	40.0	0	128	64.9	130	50.0	2.26	30	
Naphthalene	37.3	5.00	40.0	0	93.2	27.2	130	34.7	7.22	30	
Phenol	17.5	20.0	40.0	0	43.6	10	130	17.2	1.64	30	J
3&4-Methylphenol	34.0	5.00	40.0	0	85.0	29.7	130	32.3	5.05	30	
Surr: 2-Fluorophenol	0.0256		0.05000		51.1	20	130		0		
Surr: Phenol-d6	0.0151		0.05000		30.2	20	130		0		
Surr: Nitrobenzene-d5	0.0284		0.05000		56.9	27.4	130		0		
Surr: 2,4,6-Tribromophenol	0.0482		0.05000		96.3	54.3	133		0		
Surr: 2-Fluorobiphenyl	0.0295		0.05000		59.0	25.6	130		0		
Surr: p-Terphenyl-d14	0.0398		0.05000		79.5	20	181		0		

**Qualifiers:**  
 E Value above quantitation range  
 M Manual Integration used to determine area response  
 R RPD outside accepted recovery limits  
 W Sample container temperature is out of limit as specified at testcode

H Holding times for preparation or analysis exceeded  
 ND Not Detected  
 RL Reporting Detection Limit

J Analyte detected below quantitation limits  
 PL Permit Limit  
 S Spike Recovery outside accepted recovery limits

Original



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# QC SUMMARY REPORT

WO#: 23030988  
 22-Mar-23

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

**BatchID:** 63569

Sample ID: <b>MB-63569</b>	SampType: <b>MBLK</b>	TestCode: <b>SVOC_DW(50</b>	Units: <b>µg/L</b>	Prep Date: <b>3/16/2023</b>	RunNo: <b>160116</b>						
Client ID: <b>PBW</b>	Batch ID: <b>63569</b>	TestNo: <b>E504.1</b>	<b>E504.1</b>	Analysis Date: <b>3/17/2023</b>	SeqNo: <b>4255265</b>						
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									

Sample ID: <b>LCS-63569</b>	SampType: <b>LCS</b>	TestCode: <b>SVOC_DW(50</b>	Units: <b>µg/L</b>	Prep Date: <b>3/16/2023</b>	RunNo: <b>160116</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>63569</b>	TestNo: <b>E504.1</b>	<b>E504.1</b>	Analysis Date: <b>3/17/2023</b>	SeqNo: <b>4255266</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dibromochloropropane	0.590	0.0200	0.5000	0	118	70	130				m
Ethylene dibromide	0.585	0.0100	0.5000	0	117	70	130				

Sample ID: <b>LCSD-63569</b>	SampType: <b>LCSD</b>	TestCode: <b>SVOC_DW(50</b>	Units: <b>µg/L</b>	Prep Date: <b>3/16/2023</b>	RunNo: <b>160116</b>						
Client ID: <b>LCSS02</b>	Batch ID: <b>63569</b>	TestNo: <b>E504.1</b>	<b>E504.1</b>	Analysis Date: <b>3/17/2023</b>	SeqNo: <b>4255267</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dibromochloropropane	0.632	0.0200	0.5000	0	126	70	130	0.5900	6.87	20	
Ethylene dibromide	0.593	0.0100	0.5000	0	119	70	130	0.5850	1.36	20	

**Qualifiers:**  
 E Value above quantitation range  
 M Manual Integration used to determine area response  
 R RPD outside accepted recovery limits  
 W Sample container temperature is out of limit as specified at testcode

H Holding times for preparation or analysis exceeded  
 ND Not Detected  
 RL Reporting Detection Limit

J Analyte detected below quantitation limits  
 PL Permit Limit  
 S Spike Recovery outside accepted recovery limits

Original



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# QC SUMMARY REPORT

WO#: 23030988  
 22-Mar-23

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

**BatchID:** 63594

Sample ID: <b>MB-63594</b>	SampType: <b>MBLK</b>	TestCode: <b>SVOC_DW(52</b> Units: <b>µg/L</b>	Prep Date: <b>3/17/2023</b>	RunNo: <b>160159</b>							
Client ID: <b>PBW</b>	Batch ID: <b>63594</b>	TestNo: <b>E525 525</b>	Analysis Date: <b>3/19/2023</b>	SeqNo: <b>4256287</b>							
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-nitrobe...	3.26		5.000		65.2	70	130				S
Surr: Benzo(a)pyrene-d12	3.39		5.000		67.8	70	130				Sm
Surr: Triphenyl phosphate	4.90		5.000		98.0	70	130				

**Qualifiers:**

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

Original





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# QC SUMMARY REPORT

WO#: 23030988  
 22-Mar-23

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

**BatchID:** 63594

Sample ID: LCS-63594	SampType: LCS	TestCode: SVOC_DW(52	Units: µg/L	Prep Date: 3/17/2023	RunNo: 160159						
Client ID: LCSW	Batch ID: 63594	TestNo: E525	525	Analysis Date: 3/19/2023	SeqNo: 4256288						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4-Dinitrotoluene	3.58	0.200	5.000	0	71.6	70	130				
Acenaphthylene	3.65	0.100	5.000	0	73.0	70	130				
Anthracene	3.97	0.100	5.000	0	79.4	70	130				
Benzo(a)anthracene	2.77	0.100	5.000	0	55.4	70	130				S
Benzo(a)pyrene	0.920	0.100	5.000	0	18.4	70	130				S
Benzo(b)fluoranthene	1.05	0.100	5.000	0	21.0	70	130				S
Benzo(g,h,i)perylene	0.330	0.100	5.000	0	6.60	70	130				S
Benzo(k)fluoranthene	1.13	0.100	5.000	0	22.6	70	130				S
Bis(2-ethylhexyl) phthalate	0.310	0.200	5.000	0	6.20	70	130				S
Butyl benzyl phthalate	4.27	0.200	5.000	0	85.4	70	130				
Chrysene	2.88	0.100	5.000	0	57.6	70	130				S
Dibenz(a,h)anthracene	0.360	0.100	5.000	0	7.20	70	130				S
Diethyl phthalate	4.08	0.100	5.000	0	81.6	70	130				
Di-n-butyl phthalate	4.30	0.200	5.000	0	86.0	70	130				
Fluorene	3.93	0.100	5.000	0	78.6	70	130				
Hexachlorobenzene	3.32	0.100	5.000	0	66.4	70	130				S
Hexachlorocyclopentadiene	3.11	0.100	5.000	0	62.2	70	130				S
Indeno(1,2,3-cd)pyrene	0.340	1.00	5.000	0	6.80	70	130				JS
Isophorone	3.28	0.200	5.000	0	65.6	70	130				S
Phenanthrene	3.91	0.100	5.000	0	78.2	70	130				
Pyrene	4.04	0.100	5.000	0	80.8	70	130				
Surr: 1,3-Dimethyl-2-nitrobe...	2.93		5.000		58.6	70	130				S
Surr: Benzo(a)pyrene-d12	1.01		5.000		20.2	70	130				S
Surr: Triphenyl phosphate	4.67		5.000		93.4	70	130				

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

Original



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# QC SUMMARY REPORT

WO#: 23030988  
 22-Mar-23

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

**BatchID:** 63594

Sample ID: LCSD-63594	SampType: LCSD	TestCode: SVOC_DW(52	Units: µg/L	Prep Date: 3/17/2023	RunNo: 160159						
Client ID: LCSS02	Batch ID: 63594	TestNo: E525	525	Analysis Date: 3/19/2023	SeqNo: 4256289						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4-Dinitrotoluene	3.66	0.200	5.000	0	73.2	70	130	3.580	2.21	30	
Acenaphthylene	3.61	0.100	5.000	0	72.2	70	130	3.650	1.10	30	
Anthracene	3.96	0.100	5.000	0	79.2	70	130	3.970	0.252	30	m
Benzo(a)anthracene	2.77	0.100	5.000	0	55.4	70	130	2.770	0	30	S
Benzo(a)pyrene	0.920	0.100	5.000	0	18.4	70	130	0.9200	0	30	S
Benzo(b)fluoranthene	1.05	0.100	5.000	0	21.0	70	130	1.050	0	30	S
Benzo(g,h,i)perylene	0.340	0.100	5.000	0	6.80	70	130	0.3300	2.99	30	S
Benzo(k)fluoranthene	1.15	0.100	5.000	0	23.0	70	130	1.130	1.75	30	S
Bis(2-ethylhexyl) phthalate	0.350	0.200	5.000	0	7.00	70	130	0.3100	12.1	30	S
Butyl benzyl phthalate	4.31	0.200	5.000	0	86.2	70	130	4.270	0.932	30	
Chrysene	2.87	0.100	5.000	0	57.4	70	130	2.880	0.348	30	S
Dibenz(a,h)anthracene	0.350	0.100	5.000	0	7.00	70	130	0.3600	2.82	30	S
Diethyl phthalate	4.04	0.100	5.000	0	80.8	70	130	4.080	0.985	30	
Di-n-butyl phthalate	4.29	0.200	5.000	0	85.8	70	130	4.300	0.233	30	
Fluorene	3.88	0.100	5.000	0	77.6	70	130	3.930	1.28	30	
Hexachlorobenzene	3.25	0.100	5.000	0	65.0	70	130	3.320	2.13	30	S
Hexachlorocyclopentadiene	3.08	0.100	5.000	0	61.6	70	130	3.110	0.969	30	S
Indeno(1,2,3-cd)pyrene	0.350	1.00	5.000	0	7.00	70	130	0.3400	2.90	30	JS
Isophorone	3.25	0.200	5.000	0	65.0	70	130	3.280	0.919	30	S
Phenanthrene	3.94	0.100	5.000	0	78.8	70	130	3.910	0.764	30	
Pyrene	4.00	0.100	5.000	0	80.0	70	130	4.040	0.995	30	
Surr: 1,3-Dimethyl-2-nitrobe...	2.77		5.000		55.4	70	130		0	30	S
Surr: Benzo(a)pyrene-d12	0.990		5.000		19.8	70	130		0	30	S
Surr: Triphenyl phosphate	4.81		5.000		96.2	70	130		0	30	

**Qualifiers:**  
 E Value above quantitation range  
 M Manual Integration used to determine area response  
 R RPD outside accepted recovery limits  
 W Sample container temperature is out of limit as specified at testcode

H Holding times for preparation or analysis exceeded  
 ND Not Detected  
 RL Reporting Detection Limit

J Analyte detected below quantitation limits  
 PL Permit Limit  
 S Spike Recovery outside accepted recovery limits

Original



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# QC SUMMARY REPORT

WO#: 23030988  
 22-Mar-23

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

**BatchID:** 63635

Sample ID: <b>MB-63635</b>	SampType: <b>MBLK</b>	TestCode: <b>SVOC_DW(52</b> Units: <b>µg/L</b>	Prep Date: <b>3/18/2023</b>	RunNo: <b>160321</b>							
Client ID: <b>PBW</b>	Batch ID: <b>63635</b>	TestNo: <b>E525 525</b>	Analysis Date: <b>3/21/2023</b>	SeqNo: <b>4260284</b>							
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									
Dimethyl phthalate	ND	0.200									
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	2.44		5.000		48.8	70	130				S
Surr: Benzo(a)pyrene-d12	4.82		5.000		96.4	70	130				
Surr: Triphenyl phosphate	5.61		5.000		112	70	130				

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

Original



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# QC SUMMARY REPORT

WO#: 23030988  
 22-Mar-23

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

**BatchID:** 63635

Sample ID: LCS-63635	SampType: LCS	TestCode: SVOC_DW(52	Units: µg/L	Prep Date: 3/18/2023	RunNo: 160321						
Client ID: LCSW	Batch ID: 63635	TestNo: E525	525	Analysis Date: 3/21/2023	SeqNo: 4260286						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4-Dinitrotoluene	3.72	0.200	5.000	0	74.4	70	130				
Acenaphthylene	3.45	0.100	5.000	0	69.0	70	130				S
Anthracene	3.79	0.100	5.000	0	75.8	70	130				
Benzo(a)anthracene	2.67	0.100	5.000	0	53.4	70	130				S
Benzo(a)pyrene	1.02	0.100	5.000	0	20.4	70	130				S
Benzo(b)fluoranthene	1.11	0.100	5.000	0	22.2	70	130				S
Benzo(g,h,i)perylene	0.520	0.100	5.000	0	10.4	70	130				S
Benzo(k)fluoranthene	1.20	0.100	5.000	0	24.0	70	130				S
Bis(2-ethylhexyl) phthalate	0.460	0.200	5.000	0	9.20	70	130				S
Butyl benzyl phthalate	4.05	0.200	5.000	0	81.0	70	130				
Chrysene	2.61	0.100	5.000	0	52.2	70	130				S
Dibenz(a,h)anthracene	0.530	0.100	5.000	0	10.6	70	130				S
Diethyl phthalate	3.90	0.100	5.000	0	78.0	70	130				
Dimethyl phthalate	3.86	0.200	5.000	0	77.2	70	130				
Di-n-butyl phthalate	4.12	0.200	5.000	0	82.4	70	130				
Fluorene	3.70	0.100	5.000	0	74.0	70	130				
Hexachlorobenzene	2.99	0.100	5.000	0	59.8	70	130				S
Hexachlorocyclopentadiene	2.84	0.100	5.000	0	56.8	70	130				S
Indeno(1,2,3-cd)pyrene	0.530	1.00	5.000	0	10.6	70	130				JS
Isophorone	3.09	0.200	5.000	0	61.8	70	130				S
Phenanthrene	3.78	0.100	5.000	0	75.6	70	130				
Pyrene	3.79	0.100	5.000	0	75.8	70	130				
Surr: 1,3-Dimethyl-2-nitrobe...	2.82		5.000		56.4	70	130				S
Surr: Benzo(a)pyrene-d12	1.24		5.000		24.8	70	130				S
Surr: Triphenyl phosphate	5.35		5.000		107	70	130				

**Qualifiers:**  
 E Value above quantitation range  
 M Manual Integration used to determine area response  
 R RPD outside accepted recovery limits  
 W Sample container temperature is out of limit as specified at testcode

H Holding times for preparation or analysis exceeded  
 ND Not Detected  
 RL Reporting Detection Limit

J Analyte detected below quantitation limits  
 PL Permit Limit  
 S Spike Recovery outside accepted recovery limits

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# QC SUMMARY REPORT

WO#: 23030988  
 22-Mar-23

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

BatchID: 63635

Sample ID: LCSD-63635	SampType: LCSD	TestCode: SVOC_DW(52	Units: µg/L	Prep Date: 3/18/2023	RunNo: 160321						
Client ID: LCSS02	Batch ID: 63635	TestNo: E525	525	Analysis Date: 3/21/2023	SeqNo: 4260287						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4-Dinitrotoluene	3.87	0.200	5.000	0	77.4	70	130	3.720	3.95	30	
Acenaphthylene	3.66	0.100	5.000	0	73.2	70	130	3.450	5.91	30	
Anthracene	3.94	0.100	5.000	0	78.8	70	130	3.790	3.88	30	
Benzo(a)anthracene	2.81	0.100	5.000	0	56.2	70	130	2.670	5.11	30	S
Benzo(a)pyrene	1.05	0.100	5.000	0	21.0	70	130	1.020	2.90	30	S
Benzo(b)fluoranthene	1.13	0.100	5.000	0	22.6	70	130	1.110	1.79	30	S
Benzo(g,h,i)perylene	0.510	0.100	5.000	0	10.2	70	130	0.5200	1.94	30	S
Benzo(k)fluoranthene	1.26	0.100	5.000	0	25.2	70	130	1.200	4.88	30	S
Bis(2-ethylhexyl) phthalate	0.470	0.200	5.000	0	9.40	70	130	0.4600	2.15	30	S
Butyl benzyl phthalate	4.12	0.200	5.000	0	82.4	70	130	4.050	1.71	30	
Chrysene	2.83	0.100	5.000	0	56.6	70	130	2.610	8.09	30	S
Dibenz(a,h)anthracene	0.530	0.100	5.000	0	10.6	70	130	0.5300	0	30	S
Diethyl phthalate	4.05	0.100	5.000	0	81.0	70	130	3.900	3.77	30	
Dimethyl phthalate	4.00	0.200	5.000	0	80.0	70	130	3.860	3.56	30	
Di-n-butyl phthalate	4.18	0.200	5.000	0	83.6	70	130	4.120	1.45	30	
Fluorene	3.91	0.100	5.000	0	78.2	70	130	3.700	5.52	30	
Hexachlorobenzene	3.22	0.100	5.000	0	64.4	70	130	2.990	7.41	30	S
Hexachlorocyclopentadiene	3.45	0.100	5.000	0	69.0	70	130	2.840	19.4	30	S
Indeno(1,2,3-cd)pyrene	0.510	1.00	5.000	0	10.2	70	130	0.5300	3.85	30	JS
Isophorone	3.30	0.200	5.000	0	66.0	70	130	3.090	6.57	30	S
Phenanthrene	3.90	0.100	5.000	0	78.0	70	130	3.780	3.13	30	
Pyrene	3.91	0.100	5.000	0	78.2	70	130	3.790	3.12	30	
Surr: 1,3-Dimethyl-2-nitrobe...	2.08		5.000		41.6	70	130		0	30	S
Surr: Benzo(a)pyrene-d12	2.54		5.000		50.8	70	130		0	30	S
Surr: Triphenyl phosphate	4.91		5.000		98.2	70	130		0	30	

**Qualifiers:**  
 E Value above quantitation range  
 M Manual Integration used to determine area response  
 R RPD outside accepted recovery limits  
 W Sample container temperature is out of limit as specified at testcode

H Holding times for preparation or analysis exceeded  
 ND Not Detected  
 RL Reporting Detection Limit

J Analyte detected below quantitation limits  
 PL Permit Limit  
 S Spike Recovery outside accepted recovery limits

Original



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# QC SUMMARY REPORT

WO#: **23030988**  
 22-Mar-23

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

**BatchID:** R159887

Sample ID: <b>LCS</b>	SampType: <b>LCS</b>	TestCode: <b>VOC-MSTR_</b>	Units: <b>%Rec</b>	Prep Date:	RunNo: <b>159887</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>R159887</b>	TestNo: <b>E524.2</b>	Analysis Date: <b>3/14/2023</b>	SeqNo: <b>4249257</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	49.9		50.00		99.8	70	130				
Surr: Dibromofluoromethane	50.5		50.00		101	70	130				
Surr: Toluene-d8	49.9		50.00		99.9	70	130				

Sample ID: <b>23030580-002AMS</b>	SampType: <b>MS</b>	TestCode: <b>VOC-MSTR_</b>	Units: <b>%Rec</b>	Prep Date:	RunNo: <b>159887</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>R159887</b>	TestNo: <b>E524.2</b>	Analysis Date: <b>3/14/2023</b>	SeqNo: <b>4249259</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1240		1250		99.2	70	130				
Surr: Dibromofluoromethane	1220		1250		97.6	70	130				
Surr: Toluene-d8	1260		1250		101	46.1	154				

Sample ID: <b>23030580-002AMS D</b>	SampType: <b>MSD</b>	TestCode: <b>VOC-MSTR_</b>	Units: <b>%Rec</b>	Prep Date:	RunNo: <b>159887</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>R159887</b>	TestNo: <b>E524.2</b>	Analysis Date: <b>3/14/2023</b>	SeqNo: <b>4249260</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1220		1250		97.2	70	130		0	20	
Surr: Dibromofluoromethane	1190		1250		94.8	70	130		0	20	
Surr: Toluene-d8	1220		1250		97.8	46.1	154		0	20	

**Qualifiers:**

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

Original



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# QC SUMMARY REPORT

WO#: **23030988**  
**22-Mar-23**

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

**BatchID:** R159887

Sample ID: <b>MB</b>	SampType: <b>MBLK</b>	TestCode: <b>VOC-MSTR_</b>	Units: <b>%Rec</b>	Prep Date:	RunNo: <b>159887</b>						
Client ID: <b>PBW</b>	Batch ID: <b>R159887</b>	TestNo: <b>E524.2</b>		Analysis Date: <b>3/14/2023</b>	SeqNo: <b>4249328</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	51.1		50.00		102	70	130				
Surr: Dibromofluoromethane	50.1		50.00		100	70	130				
Surr: Toluene-d8	50.3		50.00		101	70	130				

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

Original





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# QC SUMMARY REPORT

WO#: 23030988  
 22-Mar-23

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

**BatchID:** R159943

Sample ID: LCS	SampType: LCS	TestCode: VOC-MSTR_	Units: µg/L	Prep Date:	RunNo: 159943						
Client ID: LCSW	Batch ID: R159943	TestNo: SW8260	Analysis Date: 3/15/2023	SeqNo: 4250508							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Butadiene	4.70	5.00	20.00	0	23.5	10	190				J
1,4-Dioxane	174	25.0	200.0	0	86.8	10	190				
2,2-Dichloropropane	18.2	5.00	20.00	0	91.2	24	171				
2-Butanone	82.5	25.0	100.0	0	82.5	10	190				
2-Nitropropane	18.7	50.0	20.00	0	93.4	10	152				J
Acrylonitrile (2-propenenitrile)	110	30.0	120.0	0	91.9	10	190				
Allyl chloride	16.7	5.00	20.00	0	83.4	64	155				
Carbon disulfide	14.4	5.00	20.00	0	72.2	63	149				
Chloroprene	17.1	5.00	20.00	0	85.7	46	164				
Cyclohexanone	100	5.00	100.0	0	100	10	190				m
Ethyl Ether	14.1	10.0	20.00	0	70.5	36	165				
Epichlorohydrin	15.0	20.0	20.00	0	75.0	10	181				J
ETBE	19.5	5.00	20.00	0	97.7	70	130				
Ethanol	161	5.00	200.0	0	80.7	10	190				
Ethyl acrylate	16.7	5.00	20.00	0	83.7	70	130				
Ethyl methacrylate	19.5	5.00	20.00	0	97.6	59	136				
Hexachloroethane	17.8	5.00	20.00	0	88.9	10	214				
Diisopropyl ether (DIPE)	19.2	5.00	20.00	0	96.1	10	177				
Methacrylonitrile	17.6	5.00	20.00	0	87.8	10	153				
Methyl acrylate	17.5	5.00	20.00	0	87.5	10	176				
Methyl methacrylate	18.8	5.00	20.00	0	93.9	50	130				
Propionitrile	17.4	5.00	20.00	0	86.9	70	130				
trans-1,4-Dichloro-2-butene	21.0	5.00	20.00	0	105	10	196				
Vinyl acetate	18.7	5.00	20.00	0	93.7	10	190				
1,2,3-Trimethylbenzene	21.4	5.00	20.00	0	107	3.54	177				
Surr: 4-Bromofluorobenzene	48.5		50.00		97.0	70	130				

**Qualifiers:**

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

Original



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# QC SUMMARY REPORT

WO#: 23030988  
 22-Mar-23

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

**BatchID:** R159943

Sample ID: <b>LCS</b>	SampType: <b>LCS</b>	TestCode: <b>VOC-MSTR_</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>159943</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>R159943</b>	TestNo: <b>SW8260</b>		Analysis Date: <b>3/15/2023</b>	SeqNo: <b>4250508</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	49.3		50.00		98.5	70	130				
Surr: Toluene-d8	49.2		50.00		98.4	70	130				

Sample ID: <b>MB</b>	SampType: <b>MBLK</b>	TestCode: <b>VOC-MSTR_</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>159943</b>						
Client ID: <b>PBW</b>	Batch ID: <b>R159943</b>	TestNo: <b>SW8260</b>		Analysis Date: <b>3/15/2023</b>	SeqNo: <b>4250511</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Butadiene	ND	5.00									
1,4-Dioxane	ND	25.0									
2,2-Dichloropropane	ND	5.00									
2-Butanone	ND	25.0									
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									
Epichlorohydrin	ND	20.0									
ETBE	ND	5.00									
Ethanol	ND	5.00									
Ethyl acrylate	ND	5.00									
Ethyl methacrylate	ND	5.00									
Hexachloroethane	ND	5.00									
Diisopropyl ether (DIPE)	ND	5.00									

**Qualifiers:**

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

Original



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

# QC SUMMARY REPORT

WO#: 23030988  
 22-Mar-23

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

**BatchID:** R159943

Sample ID: <b>MB</b>	SampType: <b>MBLK</b>	TestCode: <b>VOC-MSTR_</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>159943</b>						
Client ID: <b>PBW</b>	Batch ID: <b>R159943</b>	TestNo: <b>SW8260</b>		Analysis Date: <b>3/15/2023</b>	SeqNo: <b>4250511</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methacrylonitrile	ND	5.00									
Methyl acrylate	ND	5.00									
Methyl methacrylate	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	48.4		50.00		96.8	70	130				
Surr: Dibromofluoromethane	51.1		50.00		102	70	130				
Surr: Toluene-d8	49.8		50.00		99.6	70	130				

Sample ID: <b>23030813-006AMS</b>	SampType: <b>MS</b>	TestCode: <b>VOC-MSTR_</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>159943</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>R159943</b>	TestNo: <b>SW8260</b>		Analysis Date: <b>3/15/2023</b>	SeqNo: <b>4250514</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Butadiene	246	125	500.0	0	49.2	10	203				
1,4-Dioxane	5320	625	5000	0	106	10	181				
2,2-Dichloropropane	571	125	500.0	0	114	23.5	171				
2-Butanone	2560	625	2500	0	102	70	130				
2-Nitropropane	597	1250	500.0	0	119	10	152				J
Acrylonitrile (2-propenenitrile)	3270	750	3000	0	109	59	130				
Allyl chloride	580	125	500.0	0	116	-2.66	201				
Carbon disulfide	540	125	500.0	0	108	63.2	147				
Chloroprene	536	125	500.0	0	107	46.2	164				
Cyclohexanone	2560	125	2500	0	102	10	193				QMR
Ethyl Ether	524	250	500.0	0	105	36.1	165				

**Qualifiers:**

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

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# QC SUMMARY REPORT

WO#: 23030988  
 22-Mar-23

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

**BatchID:** R159943

Sample ID: 23030813-006AMS	SampType: MS	TestCode: VOC-MSTR_	Units: µg/L	Prep Date:	RunNo: 159943						
Client ID: BatchQC	Batch ID: R159943	TestNo: SW8260	Analysis Date: 3/15/2023	SeqNo: 4250514							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Epichlorohydrin	591	500	500.0	0	118	10	181				
ETBE	551	125	500.0	0	110	70	130				
Ethanol	4710	125	5000	0	94.1	10	179				
Ethyl acrylate	503	125	500.0	0	101	70	130				
Ethyl methacrylate	580	125	500.0	0	116	70	130				
Hexachloroethane	401	125	500.0	0	80.2	10	214				
Diisopropyl ether (DIPE)	541	125	500.0	0	108	10	177				
Methacrylonitrile	610	125	500.0	0	122	10	153				
Methyl acrylate	573	125	500.0	0	115	10	176				
Methyl methacrylate	605	125	500.0	0	121	49.7	130				
Propionitrile	573	125	500.0	0	115	70	130				
trans-1,4-Dichloro-2-butene	590	125	500.0	0	118	10	196				
Vinyl acetate	530	125	500.0	0	106	32.8	153				
1,2,3-Trimethylbenzene	622	125	500.0	0	124	70	130				
Surr: 4-Bromofluorobenzene	1240		1250		99.2	70	130				
Surr: Dibromofluoromethane	1260		1250		101	70	130				
Surr: Toluene-d8	1240		1250		99.0	46.1	154				

Sample ID: 23030813-006AMSD	SampType: MSD	TestCode: VOC-MSTR_	Units: µg/L	Prep Date:	RunNo: 159943						
Client ID: BatchQC	Batch ID: R159943	TestNo: SW8260	Analysis Date: 3/15/2023	SeqNo: 4250515							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Butadiene	268	125	500.0	0	53.5	10	203	246.2	8.29	20	
1,4-Dioxane	5700	625	5000	0	114	10	181	5318	6.90	20	
2,2-Dichloropropane	588	125	500.0	0	118	23.5	171	570.9	2.91	20	

**Qualifiers:**

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

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# QC SUMMARY REPORT

WO#: 23030988  
 22-Mar-23

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

**BatchID:** R159943

Sample ID: 23030813-006AMSD	SampType: MSD	TestCode: VOC-MSTR_	Units: µg/L	Prep Date:	RunNo: 159943						
Client ID: BatchQC	Batch ID: R159943	TestNo: SW8260	Analysis Date: 3/15/2023	SeqNo: 4250515							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Butanone	2680	625	2500	0	107	70	130	2560	4.68	20	
2-Nitropropane	622	1250	250.0	0	249	10	152	597.2	4.05	20	JS
Acrylonitrile (2-propenenitrile)	3510	750	3000	0	117	59	130	3271	7.19	20	
Allyl chloride	565	125	500.0	0	113	-2.66	201	580.4	2.65	20	
Carbon disulfide	579	125	500.0	0	116	63.2	147	539.5	7.01	20	
Chloroprene	575	125	500.0	0	115	46.2	164	535.9	7.08	20	
Cyclohexanone	4770	125	2500	0	191	10	193	2555	60.4	20	R
Ethyl Ether	518	250	500.0	0	104	36.1	165	523.8	1.10	20	
Epichlorohydrin	606	500	500.0	0	121	10	181	590.6	2.59	20	
ETBE	567	125	500.0	0	113	70	130	550.7	2.86	0	
Ethanol	4800	125	5000	0	96.1	10	179	4707	2.06	20	
Ethyl acrylate	534	125	500.0	0	107	70	130	503.2	6.02	0	
Ethyl methacrylate	602	125	500.0	0	120	70	130	579.6	3.75	20	
Hexachloroethane	401	125	500.0	0	80.2	10	214	401.2	0.00623	20	
Diisopropyl ether (DIPE)	552	125	500.0	0	110	10	177	540.7	2.10	20	
Methacrylonitrile	608	125	500.0	0	122	10	153	610.2	0.304	20	
Methyl acrylate	596	125	500.0	0	119	10	176	572.8	4.02	20	
Methyl methacrylate	620	125	500.0	0	124	49.7	130	604.7	2.51	20	
Propionitrile	587	125	500.0	0	117	70	130	573.2	2.36	20	
trans-1,4-Dichloro-2-butene	604	125	500.0	0	121	10	196	589.9	2.28	20	
Vinyl acetate	556	125	500.0	0	111	32.8	153	529.8	4.77	20	
1,2,3-Trimethylbenzene	640	125	500.0	0	128	70	130	622.3	2.73	0	
Surr: 4-Bromofluorobenzene	1260		1250		101	70	130		0	20	
Surr: Dibromofluoromethane	1240		1250		99.3	70	130		0	20	
Surr: Toluene-d8	1250		1250		99.7	46.1	154		0	20	

**Qualifiers:**  
 E Value above quantitation range  
 M Manual Integration used to determine area response  
 R RPD outside accepted recovery limits  
 W Sample container temperature is out of limit as specified at testcode

H Holding times for preparation or analysis exceeded  
 ND Not Detected  
 RL Reporting Detection Limit

J Analyte detected below quantitation limits  
 PL Permit Limit  
 S Spike Recovery outside accepted recovery limits

Original



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# QC SUMMARY REPORT

WO#: 23030988  
 22-Mar-23

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

**BatchID:** R159965

Sample ID: LCS	SampType: LCS	TestCode: VOC_DW(524)	Units: µg/L	Prep Date:	RunNo: 159965						
Client ID: LCSW	Batch ID: R159965	TestNo: E524.2	Analysis Date: 3/15/2023	SeqNo: 4251346							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	4.63	0.500	5.000	0	92.5	70	130				
1,1,1-Trichloroethane	4.99	0.500	5.000	0	99.7	70	130				
1,1,2,2-Tetrachloroethane	4.69	0.500	5.000	0	93.9	70	130				
1,1,2-Trichloroethane	4.78	0.500	5.000	0	95.5	70	130				
1,1-Dichloroethane	4.84	0.500	5.000	0	96.9	70	130				
1,1-Dichloroethene	4.86	0.500	5.000	0	97.2	70	130				
1,1-Dichloropropene	4.78	0.500	5.000	0	95.5	70	130				
1,2,3-Trichlorobenzene	4.35	0.500	5.000	0	87.0	70	130				
1,2,3-Trichloropropane	4.72	0.500	5.000	0	94.5	70	130				
1,2,4-Trichlorobenzene	5.03	0.500	5.000	0	101	70	130				
1,2,4-Trimethylbenzene	4.71	0.500	5.000	0	94.2	70	130				
1,2-Dichlorobenzene	4.92	0.500	5.000	0	98.5	70	130				
1,2-Dichloroethane	4.72	0.500	5.000	0	94.3	70	130				
1,2-Dichloropropane	4.74	0.500	5.000	0	94.8	70	130				
1,3,5-Trimethylbenzene	4.71	0.500	5.000	0	94.2	70	130				
1,3-Dichlorobenzene	4.65	0.500	5.000	0	93.0	70	130				
1,3-Dichloropropane	4.89	0.500	5.000	0	97.8	70	130				
1,4-Dichlorobenzene	4.61	0.500	5.000	0	92.1	70	130				
2-Chlorotoluene	4.76	0.500	5.000	0	95.2	70	130				
4-Chlorotoluene	4.78	0.500	5.000	0	95.7	70	130				
Benzene	4.94	0.500	5.000	0	98.9	70	130				
Bromobenzene	4.63	0.500	5.000	0	92.6	70	130				
Bromodichloromethane	4.49	0.500	5.000	0	89.8	70	130				
Bromomethane	4.20	1.00	5.000	0	83.9	70	130				
Carbon tetrachloride	4.88	0.500	5.000	0	97.6	70	130				
Chlorobenzene	4.61	0.500	5.000	0	92.2	70	130				

**Qualifiers:**

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits
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# QC SUMMARY REPORT

WO#: 23030988  
 22-Mar-23

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

**BatchID:** R159965

Sample ID: LCS	SampType: LCS	TestCode: VOC_DW(524	Units: µg/L	Prep Date:	RunNo: 159965						
Client ID: LCSW	Batch ID: R159965	TestNo: E524.2	Analysis Date: 3/15/2023	SeqNo: 4251346							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobromomethane	4.68	0.500	5.000	0	93.6	70	130				
Chlorodibromomethane	4.50	0.500	5.000	0	90.0	70	130				
Chloroethane	4.00	0.500	5.000	0	80.0	70	130				
Chloroform	4.70	0.500	5.000	0	94.1	70	130				
Chloromethane	4.04	0.500	5.000	0	80.8	70	130				
cis-1,2-Dichloroethene	4.74	0.500	5.000	0	94.7	70	130				
cis-1,3-Dichloropropene	4.55	0.500	5.000	0	91.0	70	130				
Dibromomethane	4.82	0.500	5.000	0	96.3	70	130				
Dichlorodifluoromethane	3.69	0.500	5.000	0	73.7	70	130				
Ethylbenzene	4.72	0.500	5.000	0	94.4	70	130				
Hexachloro-1,3-butadiene	4.50	0.500	5.000	0	89.9	70	130				
Isopropylbenzene	4.83	0.500	5.000	0	96.6	70	130				
m,p-Xylene	9.85	0.500	10.00	0	98.5	70	130				
Methylene chloride	4.80	0.500	5.000	0	96.1	70	130				
MTBE	4.10	0.500	5.000	0	82.0	70	130				
n-Butylbenzene	4.82	0.500	5.000	0	96.4	70	130				
n-Propylbenzene	4.74	0.500	5.000	0	94.9	70	130				
o-Xylene	5.12	0.500	5.000	0	102	70	130				
p-Isopropyltoluene	4.71	0.500	5.000	0	94.1	70	130				
sec-Butylbenzene	4.79	0.500	5.000	0	95.8	70	130				
Styrene	4.52	0.500	5.000	0	90.4	70	130				
tert-Butylbenzene	4.70	0.500	5.000	0	94.0	70	130				
Tetrachloroethene	5.01	0.500	5.000	0	100	70	130				
Toluene	4.76	0.500	5.000	0	95.2	70	130				
trans-1,2-Dichloroethene	4.94	0.500	5.000	0	98.9	70	130				
trans-1,3-Dichloropropene	4.46	0.500	5.000	0	89.2	70	130				

**Qualifiers:**

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
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R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode				

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# QC SUMMARY REPORT

WO#: 23030988  
 22-Mar-23

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

**BatchID:** R159965

Sample ID: <b>LCS</b>	SampType: <b>LCS</b>	TestCode: <b>VOC_DW(524)</b> Units: <b>µg/L</b>	Prep Date:	RunNo: <b>159965</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>R159965</b>	TestNo: <b>E524.2</b>	Analysis Date: <b>3/15/2023</b>	SeqNo: <b>4251346</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene	4.83	0.500	5.000	0	96.6	70	130				
Trichlorofluoromethane	4.42	0.500	5.000	0	88.4	70	130				
Vinyl chloride	4.83	0.500	5.000	0	96.7	70	130				
Xylenes, Total	15.0	0.500	15.00	0	99.8	70	130				
Surr: 1,2-Dichlorobenzene-d4	10.2		10.00		102	70	130				
Surr: 4-Bromofluorobenzene	10.6		10.00		106	70	130				

Sample ID: <b>MB</b>	SampType: <b>MBLK</b>	TestCode: <b>VOC_DW(524)</b> Units: <b>µg/L</b>	Prep Date:	RunNo: <b>159965</b>							
Client ID: <b>PBW</b>	Batch ID: <b>R159965</b>	TestNo: <b>E524.2</b>	Analysis Date: <b>3/15/2023</b>	SeqNo: <b>4251347</b>							
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-Dichloroethane	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									
1,2-Dichloropropane	ND	0.500									

**Qualifiers:**

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

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# QC SUMMARY REPORT

WO#: 23030988  
 22-Mar-23

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

**BatchID:** R159965

Sample ID: <b>MB</b>	SampType: <b>MBLK</b>	TestCode: <b>VOC_DW(524</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>159965</b>						
Client ID: <b>PBW</b>	Batch ID: <b>R159965</b>	TestNo: <b>E524.2</b>		Analysis Date: <b>3/15/2023</b>	SeqNo: <b>4251347</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
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									
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									
Isopropylbenzene	ND	0.500									
m,p-Xylene	ND	0.500									

**Qualifiers:**

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

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# QC SUMMARY REPORT

WO#: 23030988  
 22-Mar-23

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

**BatchID:** R159965

Sample ID: <b>MB</b>	SampType: <b>MBLK</b>	TestCode: <b>VOC_DW(524)</b> Units: <b>µg/L</b>	Prep Date:	RunNo: <b>159965</b>							
Client ID: <b>PBW</b>	Batch ID: <b>R159965</b>	TestNo: <b>E524.2</b>	Analysis Date: <b>3/15/2023</b>	SeqNo: <b>4251347</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
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	8.44		10.00		84.4	70	130				
Surr: 4-Bromofluorobenzene	8.09		10.00		80.9	70	130				

Sample ID: <b>23030988-001ADUP</b>	SampType: <b>DUP</b>	TestCode: <b>VOC_DW(524)</b> Units: <b>µg/L</b>	Prep Date:	RunNo: <b>159965</b>							
Client ID: <b>PW-201 Well 008</b>	Batch ID: <b>R159965</b>	TestNo: <b>E524.2</b>	Analysis Date: <b>3/15/2023</b>	SeqNo: <b>4251349</b>							
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	

**Qualifiers:**

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

Original



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# QC SUMMARY REPORT

WO#: 23030988  
 22-Mar-23

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

**BatchID:** R159965

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
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	
Bromomethane	ND	1.00						0	0	20	
Carbon tetrachloride	ND	0.500						0	0	20	
Chlorobenzene	ND	0.500						0	0	20	

**Qualifiers:**

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

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# QC SUMMARY REPORT

WO#: 23030988  
 22-Mar-23

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

**BatchID:** R159965

Sample ID: 23030988-001ADUP	SampType: DUP	TestCode: VOC_DW(524	Units: µg/L	Prep Date:	RunNo: 159965						
Client ID: PW-201 Well 008	Batch ID: R159965	TestNo: E524.2	Analysis Date: 3/15/2023	SeqNo: 4251349							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
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	
trans-1,2-Dichloroethene	ND	0.500						0	0	20	
trans-1,3-Dichloropropene	ND	0.500						0	0	20	

**Qualifiers:**

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

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# QC SUMMARY REPORT

WO#: **23030988**  
**22-Mar-23**

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

**BatchID:** R159965

Sample ID: <b>23030988-001ADUP</b>	SampType: <b>DUP</b>	TestCode: <b>VOC_DW(524)</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>159965</b>						
Client ID: <b>PW-201 Well 008</b>	Batch ID: <b>R159965</b>	TestNo: <b>E524.2</b>	Analysis Date: <b>3/15/2023</b>	SeqNo: <b>4251349</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
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	8.67		10.00		86.7	70	130		0	20	
Surr: 4-Bromofluorobenzene	8.26		10.00		82.6	70	130		0	20	

**Qualifiers:**

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

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# QC SUMMARY REPORT

WO#: 23030988  
 22-Mar-23

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

**BatchID:** R160039

Sample ID: <b>MBLK</b>	SampType: <b>MBLK</b>	TestCode: <b>GLYCOL_NP</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>160039</b>						
Client ID: <b>PBW</b>	Batch ID: <b>R160039</b>	TestNo: <b>SW8015C</b>		Analysis Date: <b>3/16/2023</b>	SeqNo: <b>4252719</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diethylene glycol	ND	10000		0	0						
Ethylene glycol	ND	10000		0	0						
Propylene glycol	ND	10000		0	0						
Triethylene glycol	ND	10000		0	0						

Sample ID: <b>LCS 500 PPM</b>	SampType: <b>LCS</b>	TestCode: <b>GLYCOL_NP</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>160039</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>R160039</b>	TestNo: <b>SW8015C</b>		Analysis Date: <b>3/16/2023</b>	SeqNo: <b>4252720</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diethylene glycol	424000	10000	500000	0	84.9	70	130				
Ethylene glycol	424000	10000	500000	0	84.8	70	130				
Propylene glycol	436000	10000	500000	0	87.2	51.7	139				
Triethylene glycol	426000	10000	500000	0	85.2	70	130				

Sample ID: <b>LCSD 500 PPM</b>	SampType: <b>LCSD</b>	TestCode: <b>GLYCOL_NP</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>160039</b>						
Client ID: <b>LCSS02</b>	Batch ID: <b>R160039</b>	TestNo: <b>SW8015C</b>		Analysis Date: <b>3/16/2023</b>	SeqNo: <b>4252721</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diethylene glycol	446000	10000	500000	0	89.2	70	130	424000	4.91	20	
Ethylene glycol	452000	10000	500000	0	90.4	70	130	424000	6.36	20	
Propylene glycol	456000	10000	500000	0	91.2	51.7	139	436000	4.50	20	m
Triethylene glycol	453000	10000	500000	0	90.7	70	130	426000	6.27	20	

**Qualifiers:**  
 E Value above quantitation range  
 M Manual Integration used to determine area response  
 R RPD outside accepted recovery limits  
 W Sample container temperature is out of limit as specified at testcode

H Holding times for preparation or analysis exceeded  
 ND Not Detected  
 RL Reporting Detection Limit

J Analyte detected below quantitation limits  
 PL Permit Limit  
 S Spike Recovery outside accepted recovery limits

Original





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# QC SUMMARY REPORT

WO#: **23030988**  
 22-Mar-23

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

**BatchID:** R160059

Sample ID: <b>LCS</b>	SampType: <b>LCS</b>	TestCode: <b>VOC_DW(524)</b> Units: <b>µg/L</b>	Prep Date:	RunNo: <b>160059</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>R160059</b>	TestNo: <b>E524.2</b>	Analysis Date: <b>3/16/2023</b>	SeqNo: <b>4253371</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromoform	4.87	0.500	5.000	0	97.3	70	130				
Surr: 1,2-Dichlorobenzene-d4	10.3		10.00		103	70	130				
Surr: 4-Bromofluorobenzene	10.6		10.00		106	70	130				

Sample ID: <b>MB</b>	SampType: <b>MBLK</b>	TestCode: <b>VOC_DW(524)</b> Units: <b>µg/L</b>	Prep Date:	RunNo: <b>160059</b>							
Client ID: <b>PBW</b>	Batch ID: <b>R160059</b>	TestNo: <b>E524.2</b>	Analysis Date: <b>3/16/2023</b>	SeqNo: <b>4253372</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromoform	ND	0.500									
Surr: 1,2-Dichlorobenzene-d4	8.52		10.00		85.2	70	130				
Surr: 4-Bromofluorobenzene	8.43		10.00		84.3	70	130				

Sample ID: <b>23030993-001ADUP</b>	SampType: <b>DUP</b>	TestCode: <b>VOC_DW(524)</b> Units: <b>µg/L</b>	Prep Date:	RunNo: <b>160059</b>							
Client ID: <b>BatchQC</b>	Batch ID: <b>R160059</b>	TestNo: <b>E524.2</b>	Analysis Date: <b>3/16/2023</b>	SeqNo: <b>4253374</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromoform	ND	0.500						0	0	20	
Surr: 1,2-Dichlorobenzene-d4	8.52		10.00		85.2	70	130		0	20	
Surr: 4-Bromofluorobenzene	8.61		10.00		86.1	70	130		0	20	

**Qualifiers:**

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

Original



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# QC SUMMARY REPORT

WO#: 23030988  
 22-Mar-23

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

**BatchID:** R160067

Sample ID: <b>LCS</b>	SampType: <b>LCS</b>	TestCode: <b>VOC-MSTR_</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>160067</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>R160067</b>	TestNo: <b>SW8260</b>	Analysis Date: <b>3/16/2023</b>	SeqNo: <b>4253659</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Freon-113	18.8	5.00	20.00	0	93.9	80	143				
Surr: 4-Bromofluorobenzene	50.7		50.00		101	70	130				
Surr: Dibromofluoromethane	49.0		50.00		98.1	70	130				
Surr: Toluene-d8	49.1		50.00		98.3	70	130				

Sample ID: <b>MB</b>	SampType: <b>MBLK</b>	TestCode: <b>VOC-MSTR_</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>160067</b>						
Client ID: <b>PBW</b>	Batch ID: <b>R160067</b>	TestNo: <b>SW8260</b>	Analysis Date: <b>3/16/2023</b>	SeqNo: <b>4253662</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Freon-113	ND	5.00									
Surr: 4-Bromofluorobenzene	48.4		50.00		96.8	70	130				
Surr: Dibromofluoromethane	49.3		50.00		98.6	70	130				
Surr: Toluene-d8	50.2		50.00		101	70	130				

Sample ID: <b>23030810-011AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>VOC-MSTR_</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>160067</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>R160067</b>	TestNo: <b>SW8260</b>	Analysis Date: <b>3/16/2023</b>	SeqNo: <b>4253664</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Freon-113	1870	500	2000	0	93.7	10	236	1735	7.76	20	
Surr: 4-Bromofluorobenzene	4960		5000		99.1	70	130		0	20	
Surr: Dibromofluoromethane	4850		5000		97.1	70	130		0	20	
Surr: Toluene-d8	4920		5000		98.5	46.1	154		0	20	

**Qualifiers:**

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

Original



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# QC SUMMARY REPORT

WO#: **23030988**  
**22-Mar-23**

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

**BatchID:** R160067

Sample ID: <b>23030810-011AMS</b>	SampType: <b>MS</b>	TestCode: <b>VOC-MSTR_</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>160067</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>R160067</b>	TestNo: <b>SW8260</b>	Analysis Date: <b>3/16/2023</b>	SeqNo: <b>4253665</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Freon-113	1730	500	2000	0	86.7	10	236				
Surr: 4-Bromofluorobenzene	5020		5000		100	70	130				
Surr: Dibromofluoromethane	4880		5000		97.5	70	130				
Surr: Toluene-d8	4850		5000		97.0	46.1	154				

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

Original

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

### Qualifiers

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

### Acronyms

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

**This list of Qualifiers and Acronyms reflects the most commonly utilized Qualifiers and Acronyms for reporting. Please refer to the Analytical Notes in the Case Narrative for any Qualifiers or Acronyms that do not appear in this list or for additional information regarding the use of these Qualifiers on reported data.**



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# DATES REPORT

WO#: **23030988**  
**22-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
23030988-001A	PW-201 Well 008	3/14/2023 11:30:00 AM	Drinking Water	VOC-GC/MS (524.2)			3/16/2023 9:14:00 PM
				VOC-GC/MS (524.2)			3/15/2023 10:18:00 PM
23030988-001B				EDB, DBCP, 123TCP by GC (EPA 504)		3/16/2023 10:10:00 AM	3/17/2023 3:10:00 AM
23030988-001C				VOC by GC/MS (8260D)			3/15/2023 5:04:00 PM
				VOC by GC/MS (8260D)			3/16/2023 6:36:00 PM
				VOC Tentatively Identified Compound (TICs)			3/15/2023 5:04:00 PM
23030988-001D				SVOC by 8270E		3/15/2023 4:20:00 PM	3/18/2023 2:42:00 PM
				Synthetic Organic Compounds by GC/MS (EPA 525.3)		3/17/2023 9:00:00 AM	3/20/2023 6:31:00 PM
				Synthetic Organic Compounds by GC/MS (EPA 525.3)		3/17/2023 9:00:00 AM	3/21/2023 2:16:00 AM
23030988-001E				Glycols (8015)			3/16/2023 3:24:00 PM
				Glycols (8015)			3/16/2023 3:24:00 PM
23030988-002A	PW-202 Rhoades Well	3/14/2023 11:55:00 AM		VOC-GC/MS (524.2)			3/16/2023 1:39:00 AM
				VOC-GC/MS (524.2)			3/16/2023 9:43:00 PM
23030988-002B				EDB, DBCP, 123TCP by GC (EPA 504)		3/16/2023 10:10:00 AM	3/17/2023 3:31:00 AM
23030988-002C				VOC by GC/MS (8260D)			3/15/2023 5:28:00 PM
				VOC by GC/MS (8260D)			3/16/2023 7:01:00 PM
				VOC Tentatively Identified Compound (TICs)			3/15/2023 5:28:00 PM
23030988-002D				SVOC by 8270E		3/15/2023 4:20:00 PM	3/18/2023 3:23:00 PM
				Synthetic Organic Compounds by GC/MS (EPA 525.3)		3/17/2023 9:00:00 AM	3/20/2023 7:17:00 PM
				Synthetic Organic Compounds by GC/MS (EPA 525.3)		3/17/2023 9:00:00 AM	3/21/2023 3:03:00 AM
23030988-002E				Glycols (8015)			3/16/2023 4:20:00 PM

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# DATES REPORT

WO#: **23030988**  
**22-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
23030988-002E	PW-202 Rhoades Well	3/14/2023 11:55:00 AM	Drinking Water	Glycols (8015)			3/16/2023 4:20:00 PM
23030988-003A	PW-203 Nulf Well	3/14/2023 12:35:00 PM		VOC-GC/MS (524.2)			3/16/2023 2:08:00 AM
				VOC-GC/MS (524.2)			3/16/2023 10:12:00 PM
23030988-003B				EDB, DBCP, 123TCP by GC (EPA 504)		3/16/2023 10:10:00 AM	3/17/2023 3:52:00 AM
23030988-003C				VOC by GC/MS (8260D)			3/15/2023 5:51:00 PM
				VOC by GC/MS (8260D)			3/16/2023 7:26:00 PM
				VOC Tentatively Identified Compound (TICs)			3/15/2023 5:51:00 PM
23030988-003D				SVOC by 8270E		3/15/2023 4:20:00 PM	3/18/2023 4:04:00 PM
				Synthetic Organic Compounds by GC/MS (EPA 525.3)		3/17/2023 9:00:00 AM	3/20/2023 8:04:00 PM
				Synthetic Organic Compounds by GC/MS (EPA 525.3)		3/17/2023 9:00:00 AM	3/21/2023 3:49:00 AM
23030988-003E				Glycols (8015)			3/16/2023 5:16:00 PM
				Glycols (8015)			3/16/2023 5:16:00 PM
23030988-004A	PW-204 Harding Well	3/14/2023 1:20:00 PM		VOC-GC/MS (524.2)			3/16/2023 2:37:00 AM
				VOC-GC/MS (524.2)			3/16/2023 10:41:00 PM
23030988-004B				EDB, DBCP, 123TCP by GC (EPA 504)		3/16/2023 10:10:00 AM	3/17/2023 4:13:00 AM
23030988-004C				VOC by GC/MS (8260D)			3/15/2023 6:15:00 PM
				VOC by GC/MS (8260D)			3/16/2023 7:51:00 PM
				VOC Tentatively Identified Compound (TICs)			3/15/2023 6:15:00 PM
23030988-004D				SVOC by 8270E		3/15/2023 4:20:00 PM	3/18/2023 4:45:00 PM
				Synthetic Organic Compounds by GC/MS (EPA 525.3)		3/17/2023 9:00:00 AM	3/21/2023 4:36:00 AM
				Synthetic Organic Compounds by GC/MS (EPA 525.3)		3/17/2023 9:00:00 AM	3/20/2023 8:50:00 PM

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# DATES REPORT

WO#: **23030988**  
**22-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
23030988-004E	PW-204 Harding Well	3/14/2023 1:20:00 PM	Drinking Water	Glycols (8015)			3/16/2023 6:12:00 PM
				Glycols (8015)			3/16/2023 6:12:00 PM
23030988-005A	PW-205 Zuch Well	3/14/2023 1:50:00 PM		VOC-GC/MS (524.2)			3/16/2023 3:06:00 AM
				VOC-GC/MS (524.2)			3/16/2023 11:10:00 PM
23030988-005B				EDB, DBCP, 123TCP by GC (EPA 50-		3/16/2023 10:10:00 AM	3/17/2023 4:34:00 AM
23030988-005C				VOC by GC/MS (8260D)			3/15/2023 6:39:00 PM
				VOC by GC/MS (8260D)			3/16/2023 8:15:00 PM
				VOC Tentatively Identified Compound (TICs)			3/15/2023 6:39:00 PM
23030988-005D				SVOC by 8270E		3/15/2023 4:20:00 PM	3/18/2023 5:25:00 PM
				Synthetic Organic Compounds by GC/MS (EPA 525.3)		3/17/2023 9:00:00 AM	3/20/2023 9:37:00 PM
				Synthetic Organic Compounds by GC/MS (EPA 525.3)		3/17/2023 9:00:00 AM	3/21/2023 5:22:00 AM
23030988-005E				Glycols (8015)			3/16/2023 7:08:00 PM
				Glycols (8015)			3/16/2023 7:08:00 PM
23030988-006A	PW-207 Entry Point	3/14/2023 2:15:00 PM		VOC-GC/MS (524.2)			3/16/2023 3:34:00 AM
				VOC-GC/MS (524.2)			3/16/2023 11:38:00 PM
23030988-006B				EDB, DBCP, 123TCP by GC (EPA 50-		3/16/2023 10:10:00 AM	3/17/2023 4:55:00 AM
23030988-006C				VOC by GC/MS (8260D)			3/15/2023 7:02:00 PM
				VOC by GC/MS (8260D)			3/16/2023 8:40:00 PM
				VOC Tentatively Identified Compound (TICs)			3/15/2023 7:02:00 PM
23030988-006D				SVOC by 8270E		3/15/2023 4:20:00 PM	3/18/2023 6:06:00 PM
				SVOC by 8270E		3/15/2023 4:20:00 PM	3/19/2023 7:42:00 PM

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# DATES REPORT

WO#: **23030988**  
**22-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
23030988-006D	PW-207 Entry Point	3/14/2023 2:15:00 PM	Drinking Water	Synthetic Organic Compounds by GC/MS (EPA 525.3)		3/17/2023 9:00:00 AM	3/20/2023 10:23:00 PM
				Synthetic Organic Compounds by GC/MS (EPA 525.3)		3/17/2023 9:00:00 AM	3/21/2023 6:09:00 AM
23030988-006E				Glycols (8015)			3/16/2023 8:03:00 PM
				Glycols (8015)			3/16/2023 8:03:00 PM
23030988-007A	PW-201FB Field Blank	3/14/2023 10:45:00 AM		VOC-GC/MS (524.2)			3/16/2023 4:03:00 AM
				VOC-GC/MS (524.2)			3/17/2023 12:07:00 AM
23030988-007B				EDB, DBCP, 123TCP by GC (EPA 504.2)		3/16/2023 10:10:00 AM	3/17/2023 5:16:00 AM
23030988-007C				VOC by GC/MS (8260D)			3/15/2023 7:26:00 PM
				VOC by GC/MS (8260D)			3/16/2023 9:05:00 PM
				VOC Tentatively Identified Compound (TICs)			3/15/2023 7:26:00 PM
23030988-007D				SVOC by 8270E		3/15/2023 4:20:00 PM	3/18/2023 6:45:00 PM
				Synthetic Organic Compounds by GC/MS (EPA 525.3)		3/17/2023 9:00:00 AM	3/20/2023 11:10:00 PM
				Synthetic Organic Compounds by GC/MS (EPA 525.3)		3/17/2023 9:00:00 AM	3/21/2023 6:55:00 AM
23030988-007E				Glycols (8015)			3/16/2023 8:59:00 PM
				Glycols (8015)			3/16/2023 8:59:00 PM
23030988-008A	PW-207DUPE Duplicate	3/14/2023 2:15:00 PM		VOC-GC/MS (524.2)			3/16/2023 4:32:00 AM
				VOC-GC/MS (524.2)			3/17/2023 12:36:00 AM
23030988-008B				EDB, DBCP, 123TCP by GC (EPA 504.2)		3/16/2023 10:10:00 AM	3/17/2023 5:37:00 AM
23030988-008C				VOC by GC/MS (8260D)			3/15/2023 7:49:00 PM
				VOC by GC/MS (8260D)			3/16/2023 9:29:00 PM
				VOC Tentatively Identified Compound (TICs)			3/15/2023 7:49:00 PM

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# DATES REPORT

WO#: **23030988**  
**22-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
23030988-008D	PW-207DUPE Dupelicate	3/14/2023 2:15:00 PM	Drinking Water	SVOC by 8270E		3/15/2023 4:20:00 PM	3/18/2023 7:26:00 PM
				SVOC by 8270E		3/15/2023 4:20:00 PM	3/19/2023 8:23:00 PM
				Synthetic Organic Compounds by GC/ (EPA 525.3)		3/18/2023 9:30:00 AM	3/22/2023 1:04:00 AM
				Synthetic Organic Compounds by GC/ (EPA 525.3)		3/18/2023 9:30:00 AM	3/22/2023 9:36:00 AM
23030988-008E				Glycols (8015)			3/16/2023 9:55:00 PM
				Glycols (8015)			3/16/2023 9:55:00 PM
23030988-009A	Trip Blank 1			VOC by GC/MS (8260D)			3/15/2023 3:05:00 PM
				VOC by GC/MS (8260D)			3/16/2023 4:32:00 PM
				VOC Tentatively Identified Compound (TICs)			3/15/2023 3:05:00 PM
23030988-009B				VOC-GC/MS (524.2)			3/15/2023 11:16:00 PM
				VOC-GC/MS (524.2)			3/16/2023 6:19:00 PM
23030988-009C				EDB, DBCP, 123TCP by GC (EPA 50-		3/16/2023 10:10:00 AM	3/17/2023 5:58:00 AM
23030988-010A	Trip Blank 2			VOC by GC/MS (8260D)			3/15/2023 3:29:00 PM
				VOC by GC/MS (8260D)			3/16/2023 4:57:00 PM
				VOC Tentatively Identified Compound (TICs)			3/15/2023 3:29:00 PM
23030988-010B				VOC-GC/MS (524.2)			3/15/2023 11:44:00 PM
				VOC-GC/MS (524.2)			3/16/2023 6:48:00 PM
23030988-010C				EDB, DBCP, 123TCP by GC (EPA 50-		3/16/2023 10:10:00 AM	3/17/2023 7:01:00 AM
23030988-011A	Trip Blank 3			VOC by GC/MS (8260D)			3/15/2023 3:53:00 PM
				VOC by GC/MS (8260D)			3/16/2023 5:22:00 PM
				VOC Tentatively Identified Compound (TICs)			3/15/2023 3:53:00 PM

Original



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## DATES REPORT

WO#: **23030988**  
**22-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
23030988-011B	Trip Blank 3		Drinking Water	VOC-GC/MS (524.2)			3/16/2023 12:13:00 AM
				VOC-GC/MS (524.2)			3/16/2023 7:18:00 PM
23030988-011C				EDB, DBCP, 123TCP by GC (EPA 50-		3/16/2023 10:10:00 AM	3/17/2023 7:23:00 AM
23030988-012A	Trip Blank 4			VOC by GC/MS (8260D)			3/15/2023 4:16:00 PM
				VOC by GC/MS (8260D)			3/16/2023 5:47:00 PM
				VOC Tentatively Identified Compound (TICs)			3/15/2023 4:16:00 PM
23030988-012B				VOC-GC/MS (524.2)			3/16/2023 12:42:00 AM
				VOC-GC/MS (524.2)			3/16/2023 7:47:00 PM
23030988-012C				EDB, DBCP, 123TCP by GC (EPA 50-		3/16/2023 10:10:00 AM	3/17/2023 7:44:00 AM

Original

Analysis Request / Chain of Custody



SET  
WO  
NO.: **25050988**

Client Name: **OHIO EPA - DDAGI W**  
 Client Street Address: **481 GACON AVE**  
 City: **TOLEDO, OH** State: **OH** Zip: **43607**  
 Client Phone: **330-963-1150**  
 Contact Person: **JAMES FISHER**  
 Project Identification: **OHIO EPA PWS - EP**  
 Project Street Address: **481 GACON AVE**  
 Report To: **JAMES FISHER**  
 PO #: **330-963-1150**  
 Facility ID: **330-963-1150**

Client Email Address: **james.fisher@epa.ohio.gov**  
 Sampled by: **James Fisher**  
 Print: **James Fisher**  
 Signature: *[Signature]*  
 For DW only, result to be reported as state by lab? If yes, lab fee may apply:  Y  N  
 Matrix: S = Solid, SL = Sludge, L = Liquid, O = Oil, A = Air, NPW = Non-Portable Water, DW = Drinking Water  
 Preservation: 1) HNO3; 2) H2SO4; 3) BCl; 4) Zinc Acetate; 5) NaOH; 6) EDA; 7) none; 8) other (specify in comments)  
 Number of Containers per Sample: **16**

#	Sample Point ID	Sample Identification	Date Collected	Time Collected	Grab Sample	Composite Sample	Date	Received by:	Time
1	PW-201	WELL 008	3/14/23	1130	X				
2	PW-202	RHOWDES WELL	3/14/23	1155	X				
3	PW-203	NOLF WELL	3/14/23	1235	X				
4	PW-204	HARNAING WELL	3/14/23	1320	X				
5	PW-205	ZUCHL WELL	3/14/23	1350	X				
6	PW-207	ENTRY POINT	3/14/23	1415	X				
7	PW-201A	FIELD BLANK	3/14/23	1045	X				
8	PW-207A	DUPLICATE	3/14/23	1415	X				

Relinquished by: **James Fisher** Date: **3/14/23** Time: **1659**  
 Received at Summit by: **James Fisher** Date: **03/14/23** Time: **1700** Carrier: **Clint**  
 Rush Requested: **7** Day(s) Must be approved by Lab Manager  
 Received Temp.: **0.8, 4.2, 2.8, 3.0, 2.4**  
 Ice Present?  YES  NO  
 Other Container:  YES  NO  
 Cooler?  YES  NO  
 Notes / Comments: **524, 8260-11CL7, 504.1-NA-2503, 525-Ascorbic Acid, Resonium Chrome**  
**\*INVOICE: VILKIE STEVENS - PERSE@EPA.OHIO.GOV**  
 Sufficient volume provided to run QC?  YES  NO  
 For DW Only: Special Compliance or Routine (S/R)

524.2 X  
504.1 X  
8260D X  
525 X  
8270 X  
8015 X  
ETHANOL X

0.7, 4.1, 2.7, 2.9, 2.3 + 0.1



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# Sample Log-In Check List

Client Name: **OEPA-OH-44087** Work Order Number: **23030988** RcptNo: **1**

Logged by:	<b>Anthony W. Britton</b>	<b>3/14/2023 5:00:00 PM</b>	
Completed By:	<b>Anthony W. Britton</b>	<b>3/14/2023 5:42:07 PM</b>	
Reviewed By:	<b>Holly Florea</b>	<b>3/16/2023 8:17:11 AM</b>	

### 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	0.8	Good	Not Present			
2	4.2	Good	Not Present			
3	2.8	Good	Not Present			



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## Sample Log-In Check List

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

Work Order Number: **23030988**

RcptNo: 1

4	3.0	Good	Not Present			
5	2.4	Good	Not Present			