



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 17, 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.: 23030475

Summit Environmental Technologies, Inc. received 13 sample(s) on 3/7/2023 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#: 23030475  
Date: 3/17/2023

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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:

23030475-001 through 013 VOC-MSTR\_NPW(8260D): CCV exhibited high recovery for 1,2,3-Trimethylbenzene. Sample is ND for this analyte.

23030475-007 and 008 VOC\_DW(524.2): MB-R159587 exhibited detections for 1,3,5-Trimethylbenzene and sec-Butylbenzene > 1/2 PQL, but < PQL. Sample is ND for these analytes.

23030475-001 through 008 SVOC-MSTR\_NPW(8270E): CCV exhibited high recovery for 2-Methylnaphthalene. Sample is ND for this analyte.

23030475-006D SVOC-MSTR\_NPW(8270E): Sample exhibited low surrogate recovery for Phenol-d6.

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Original



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---

Reanalysis of sample for 2-Butoxyethanol confirms matrix interference. All other surrogates demonstrate control.

23030475-007D SVOC-MSTR\_NPW(8270E): Sample exhibited low surrogate recovery for 2,4,6-Tribromophenol. All other surrogates demonstrate control.

23030475-008D SVOC-MSTR\_NPW(8270E): Sample exhibited low surrogate recovery for Phenol-d6. Reanalysis of sample for 2-Butoxyethanol confirms matrix interference. All other surrogates demonstrate control.

23030475-001 through 008 SVOC\_DW(525.3): Possible low bias for several analytes due to low recoveries in LCS/LCSD-63551, confirmed by reanalysis.

23030475-008d SVOC\_DW(525.3): Low surrogate recovery was confirmed by reanalysis.

23030475-001D through 008 svoc-mstr\_npw(8270E): Z: Method Deviation: Sample result for 2-Butoxyethanol was quantitated against an Initial Calibration (ICAL) that was not verified by a second source due to lack of standard. Sample is ND for this analyte. Sample was extracted and analyzed without a Laboratory Control Sample (LCS) prepared from a second source for 2-Butoxyethanol due to lack of standard. Sample is ND for this analyte.

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## Workorder Sample Summary

WO#: 23030475

17-Mar-23

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

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
23030475-001	PW-201 Well 008		3/7/2023 9:30:00 AM	3/7/2023 3:32:00 PM	Drinking Water
23030475-001	PW-201 Well 008		3/7/2023 9:30:00 AM	3/7/2023 3:32:00 PM	Drinking Water
23030475-001	PW-201 Well 008		3/7/2023 9:30:00 AM	3/7/2023 3:32:00 PM	Drinking Water
23030475-001	PW-201 Well 008		3/7/2023 9:30:00 AM	3/7/2023 3:32:00 PM	Drinking Water
23030475-001	PW-201 Well 008		3/7/2023 9:30:00 AM	3/7/2023 3:32:00 PM	Drinking Water
23030475-002	PW-202 Rhoades Well		3/7/2023 10:07:00 AM	3/7/2023 3:32:00 PM	Drinking Water
23030475-002	PW-202 Rhoades Well		3/7/2023 10:07:00 AM	3/7/2023 3:32:00 PM	Drinking Water
23030475-002	PW-202 Rhoades Well		3/7/2023 10:07:00 AM	3/7/2023 3:32:00 PM	Drinking Water
23030475-002	PW-202 Rhoades Well		3/7/2023 10:07:00 AM	3/7/2023 3:32:00 PM	Drinking Water
23030475-002	PW-202 Rhoades Well		3/7/2023 10:07:00 AM	3/7/2023 3:32:00 PM	Drinking Water
23030475-003	PW-203 Nulf Well		3/7/2023 10:46:00 AM	3/7/2023 3:32:00 PM	Drinking Water
23030475-003	PW-203 Nulf Well		3/7/2023 10:46:00 AM	3/7/2023 3:32:00 PM	Drinking Water
23030475-003	PW-203 Nulf Well		3/7/2023 10:46:00 AM	3/7/2023 3:32:00 PM	Drinking Water
23030475-003	PW-203 Nulf Well		3/7/2023 10:46:00 AM	3/7/2023 3:32:00 PM	Drinking Water
23030475-003	PW-203 Nulf Well		3/7/2023 10:46:00 AM	3/7/2023 3:32:00 PM	Drinking Water
23030475-004	PW-204 Harding Well		3/7/2023 11:20:00 AM	3/7/2023 3:32:00 PM	Drinking Water
23030475-004	PW-204 Harding Well		3/7/2023 11:20:00 AM	3/7/2023 3:32:00 PM	Drinking Water
23030475-004	PW-204 Harding Well		3/7/2023 11:20:00 AM	3/7/2023 3:32:00 PM	Drinking Water
23030475-004	PW-204 Harding Well		3/7/2023 11:20:00 AM	3/7/2023 3:32:00 PM	Drinking Water
23030475-004	PW-204 Harding Well		3/7/2023 11:20:00 AM	3/7/2023 3:32:00 PM	Drinking Water
23030475-005	PW-205 Zuch Well		3/7/2023 11:53:00 AM	3/7/2023 3:32:00 PM	Drinking Water
23030475-005	PW-205 Zuch Well		3/7/2023 11:53:00 AM	3/7/2023 3:32:00 PM	Drinking Water
23030475-005	PW-205 Zuch Well		3/7/2023 11:53:00 AM	3/7/2023 3:32:00 PM	Drinking Water



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17-Mar-23

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Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
23030475-005	PW-205 Zuch Well		3/7/2023 11:53:00 AM	3/7/2023 3:32:00 PM	Drinking Water
23030475-005	PW-205 Zuch Well		3/7/2023 11:53:00 AM	3/7/2023 3:32:00 PM	Drinking Water
23030475-006	PW-207 Entry Point		3/7/2023 12:25:00 PM	3/7/2023 3:32:00 PM	Drinking Water
23030475-006	PW-207 Entry Point		3/7/2023 12:25:00 PM	3/7/2023 3:32:00 PM	Drinking Water
23030475-006	PW-207 Entry Point		3/7/2023 12:25:00 PM	3/7/2023 3:32:00 PM	Drinking Water
23030475-006	PW-207 Entry Point		3/7/2023 12:25:00 PM	3/7/2023 3:32:00 PM	Drinking Water
23030475-006	PW-207 Entry Point		3/7/2023 12:25:00 PM	3/7/2023 3:32:00 PM	Drinking Water
23030475-006	PW-207 Entry Point		3/7/2023 12:25:00 PM	3/7/2023 3:32:00 PM	Drinking Water
23030475-007	PW-201FB Field Blank		3/7/2023 12:20:00 PM	3/7/2023 3:32:00 PM	Drinking Water
23030475-007	PW-201FB Field Blank		3/7/2023 12:20:00 PM	3/7/2023 3:32:00 PM	Drinking Water
23030475-007	PW-201FB Field Blank		3/7/2023 12:20:00 PM	3/7/2023 3:32:00 PM	Drinking Water
23030475-007	PW-201FB Field Blank		3/7/2023 12:20:00 PM	3/7/2023 3:32:00 PM	Drinking Water
23030475-007	PW-201FB Field Blank		3/7/2023 12:20:00 PM	3/7/2023 3:32:00 PM	Drinking Water
23030475-008	PW-207DUPE Dupelicate		3/7/2023 12:25:00 PM	3/7/2023 3:32:00 PM	Drinking Water
23030475-008	PW-207DUPE Dupelicate		3/7/2023 12:25:00 PM	3/7/2023 3:32:00 PM	Drinking Water
23030475-008	PW-207DUPE Dupelicate		3/7/2023 12:25:00 PM	3/7/2023 3:32:00 PM	Drinking Water
23030475-008	PW-207DUPE Dupelicate		3/7/2023 12:25:00 PM	3/7/2023 3:32:00 PM	Drinking Water
23030475-008	PW-207DUPE Dupelicate		3/7/2023 12:25:00 PM	3/7/2023 3:32:00 PM	Drinking Water
23030475-009	Trip Blank-1			3/7/2023 3:32:00 PM	Drinking Water
23030475-009	Trip Blank-1			3/7/2023 3:32:00 PM	Drinking Water
23030475-009	Trip Blank-1			3/7/2023 3:32:00 PM	Drinking Water
23030475-010	Trip Blank-2			3/7/2023 3:32:00 PM	Drinking Water
23030475-010	Trip Blank-2			3/7/2023 3:32:00 PM	Drinking Water
23030475-010	Trip Blank-2			3/7/2023 3:32:00 PM	Drinking Water



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## Workorder Sample Summary

WO#: 23030475

17-Mar-23

**CLIENT:** OhioEPA-DDAGW

**Project:** Ohio EPA PWS-EP

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
23030475-011	Trip Blank-3			3/7/2023 3:32:00 PM	Drinking Water
23030475-011	Trip Blank-3			3/7/2023 3:32:00 PM	Drinking Water
23030475-011	Trip Blank-3			3/7/2023 3:32:00 PM	Drinking Water
23030475-012	Trip Blank-4			3/7/2023 3:32:00 PM	Drinking Water
23030475-012	Trip Blank-4			3/7/2023 3:32:00 PM	Drinking Water
23030475-012	Trip Blank-4			3/7/2023 3:32:00 PM	Drinking Water
23030475-013	Trip Blank-5			3/7/2023 3:32:00 PM	Drinking Water
23030475-013	Trip Blank-5			3/7/2023 3:32:00 PM	Drinking Water
23030475-013	Trip Blank-5			3/7/2023 3:32:00 PM	Drinking Water



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# Analytical Report

(consolidated)

WO#: 23030475

Date Reported: 3/17/2023

**CLIENT:** OhioEPA-DDAGW  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030475-001  
**Client Sample ID:** PW-201 Well 008

**Collection Date:** 3/7/2023 9:30:00 AM

**Matrix:** DRINKING WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**GLYCOLS (8015)**

**SW8015C**

Analyst: **JDB**

Diethylene glycol	ND	5000		µg/L	1	3/8/2023 1:14:00 PM
Ethylene glycol	ND	5000		µg/L	1	3/8/2023 1:14:00 PM
Propylene glycol	ND	5000		µg/L	1	3/8/2023 1:14:00 PM
Triethylene glycol	ND	5000		µg/L	1	3/8/2023 1:14:00 PM

**EPA504.-DW**

**E504.1**

**E504.1**

Analyst: **PGP**

**EDB, DBCP, 123TCP BY GC (EPA 504.1)**

Dibromochloropropane	ND	0.0400		µg/L	1	3/15/2023 4:32:00 AM
Ethylene dibromide	ND	0.0200		µg/L	1	3/15/2023 4:32:00 AM

**DRINKING WATER ORGANIC COMPOUNDS (EPA 525)**

**E525**

**525**

Analyst: **CSS**

**SYNTHETIC ORGANIC COMPOUNDS BY GC/MS (EPA 525.3)**

2,4-Dinitrotoluene	ND	0.190		µg/L	1	3/16/2023 2:46:00 PM
Acenaphthylene	ND	0.0952		µg/L	1	3/16/2023 2:46:00 PM
Anthracene	ND	0.0952		µg/L	1	3/16/2023 2:46:00 PM
Benzo(a)anthracene	ND	0.0952		µg/L	1	3/16/2023 2:46:00 PM
Benzo(a)pyrene	ND	0.0952	QL-	µg/L	1	3/16/2023 2:46:00 PM
Benzo(b)fluoranthene	ND	0.0952	QL-	µg/L	1	3/16/2023 2:46:00 PM
Benzo(g,h,i)perylene	ND	0.0952	QL-	µg/L	1	3/16/2023 2:46:00 PM
Benzo(k)fluoranthene	ND	0.0952		µg/L	1	3/16/2023 2:46:00 PM
Bis(2-ethylhexyl) phthalate	ND	0.190	QL-	µg/L	1	3/16/2023 2:46:00 PM
Butyl benzyl phthalate	ND	0.190		µg/L	1	3/16/2023 2:46:00 PM
Chrysene	ND	0.0952		µg/L	1	3/16/2023 2:46:00 PM
Dibenz(a,h)anthracene	ND	0.0952	QL-	µg/L	1	3/16/2023 2:46:00 PM
Diethyl phthalate	ND	0.0952		µg/L	1	3/16/2023 2:46:00 PM
Dimethyl phthalate	ND	0.190		µg/L	1	3/16/2023 2:46:00 PM
Di-n-butyl phthalate	0.190	0.190		µg/L	1	3/16/2023 2:46:00 PM
Fluorene	ND	0.0952		µg/L	1	3/16/2023 2:46:00 PM
Hexachlorobenzene	ND	0.0952		µg/L	1	3/16/2023 2:46:00 PM
Hexachlorocyclopentadiene	ND	0.0952		µg/L	1	3/16/2023 2:46:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.952	QL-	µg/L	1	3/16/2023 2:46:00 PM
Isophorone	ND	0.190	QL-	µg/L	1	3/16/2023 2:46:00 PM
Phenanthrene	ND	0.0952		µg/L	1	3/16/2023 2:46:00 PM
Pyrene	ND	0.0952		µg/L	1	3/16/2023 2:46:00 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#: 23030475

Date Reported: 3/17/2023

**CLIENT:** OhioEPA-DDAGW  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030475-001  
**Client Sample ID:** PW-201 Well 008

**Collection Date:** 3/7/2023 9:30:00 AM

**Matrix:** DRINKING WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DRINKING WATER ORGANIC COMPOUNDS (EPA 525)</b>					<b>E525</b>	
<b>SYNTHETIC ORGANIC COMPOUNDS BY GC/MS (EPA 525.3)</b>					<b>525</b>	Analyst: <b>CSS</b>
Surr: 1,3-Dimethyl-2-nitrobenz...	70.8	70	- 130	%Rec	1	3/16/2023 2:46:00 PM
Surr: Benzo(a)pyrene-d12	83.0	70	- 130	%Rec	1	3/16/2023 2:46:00 PM
Surr: Triphenyl phosphate	100	70	- 130	%Rec	1	3/16/2023 2:46:00 PM
<b>SVOC BY SW8270E</b>					<b>SW8270</b>	
<b>SVOC BY 8270E</b>					<b>SW3510C</b>	Analyst: <b>JAP</b>
Benzoic acid	ND	15.4		µg/L	1	3/12/2023 6:12:00 AM
2,6-Dinitrotoluene	ND	0.962		µg/L	1	3/12/2023 6:12:00 AM
2-Butoxyethanol	ND	28.8	Z	µg/L	1	3/15/2023 9:44:00 PM
2-Methylnaphthalene	ND	0.962	QC+	µg/L	1	3/12/2023 6:12:00 AM
3,3'-Dichlorobenzidine	ND	9.62		µg/L	1	3/12/2023 6:12:00 AM
4-Nitrophenol	ND	4.81		µg/L	1	3/12/2023 6:12:00 AM
Acenaphthene	ND	0.962		µg/L	1	3/12/2023 6:12:00 AM
Bis(2-chloroethyl) ether	ND	0.962		µg/L	1	3/12/2023 6:12:00 AM
Di-n-octyl phthalate	ND	4.81		µg/L	1	3/12/2023 6:12:00 AM
Fluoranthene	ND	0.962		µg/L	1	3/12/2023 6:12:00 AM
Naphthalene	ND	0.962		µg/L	1	3/12/2023 6:12:00 AM
Phenol	ND	0.962		µg/L	1	3/12/2023 6:12:00 AM
3&4-Methylphenol	ND	0.962		µg/L	1	3/12/2023 6:12:00 AM
Surr: 2-Fluorophenol	35.3	20	- 130	%Rec	1	3/12/2023 6:12:00 AM
Surr: Phenol-d6	25.5	20	- 130	%Rec	1	3/12/2023 6:12:00 AM
Surr: Nitrobenzene-d5	64.3	27.4	- 130	%Rec	1	3/12/2023 6:12:00 AM
Surr: 2,4,6-Tribromophenol	66.7	54.3	- 133	%Rec	1	3/12/2023 6:12:00 AM
Surr: 2-Fluorobiphenyl	76.4	25.6	- 130	%Rec	1	3/12/2023 6:12:00 AM
Surr: p-Terphenyl-d14	125	20	- 181	%Rec	1	3/12/2023 6:12:00 AM
<b>DRINKING WATER VOCs (EPA 524.2)</b>					<b>E524.2</b>	
<b>VOC-GC/MS (524.2)</b>						Analyst: <b>ALS</b>
1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	3/8/2023 5:02:00 PM
1,1,1-Trichloroethane	ND	0.500		µg/L	1	3/8/2023 5:02:00 PM
1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	3/8/2023 5:02:00 PM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	3/8/2023 5:02:00 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/8/2023 5:02:00 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	3/8/2023 5:02:00 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#: 23030475

Date Reported: 3/17/2023

**CLIENT:** OhioEPA-DDAGW  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030475-001  
**Client Sample ID:** PW-201 Well 008

**Collection Date:** 3/7/2023 9:30:00 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	3/8/2023 5:02:00 PM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	3/8/2023 5:02:00 PM
1,2,3-Trichloropropane	ND	0.500		µg/L	1	3/8/2023 5:02:00 PM
1,2,4-Trichlorobenzene	ND	0.500		µg/L	1	3/8/2023 5:02:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	3/8/2023 5:02:00 PM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	3/8/2023 5:02:00 PM
1,2-Dichloroethane	ND	0.500		µg/L	1	3/8/2023 5:02:00 PM
1,2-Dichloropropane	ND	0.500		µg/L	1	3/8/2023 5:02:00 PM
1,3,5-Trimethylbenzene	ND	0.500		µg/L	1	3/8/2023 5:02:00 PM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	3/8/2023 5:02:00 PM
1,3-Dichloropropane	ND	0.500		µg/L	1	3/8/2023 5:02:00 PM
1,3-Dichloropropene, Total	ND	1.00		µg/L	1	3/8/2023 5:02:00 PM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	3/8/2023 5:02:00 PM
2-Chlorotoluene	ND	0.500		µg/L	1	3/8/2023 5:02:00 PM
2-Hexanone	ND	5.00		µg/L	1	3/8/2023 5:02:00 PM
4-Chlorotoluene	ND	0.500		µg/L	1	3/8/2023 5:02:00 PM
4-Methyl-2-pentanone	ND	5.00		µg/L	1	3/8/2023 5:02:00 PM
Acetone	ND	5.00		µg/L	1	3/8/2023 5:02:00 PM
Benzene	ND	0.500		µg/L	1	3/8/2023 5:02:00 PM
Bromobenzene	ND	0.500		µg/L	1	3/8/2023 5:02:00 PM
Bromodichloromethane	ND	0.500		µg/L	1	3/8/2023 5:02:00 PM
Bromoform	ND	0.500		µg/L	1	3/8/2023 5:02:00 PM
Bromomethane	ND	1.00		µg/L	1	3/8/2023 5:02:00 PM
Carbon tetrachloride	ND	0.500		µg/L	1	3/8/2023 5:02:00 PM
Chlorobenzene	ND	0.500		µg/L	1	3/8/2023 5:02:00 PM
Chlorobromomethane	ND	0.500		µg/L	1	3/8/2023 5:02:00 PM
Chlorodibromomethane	ND	0.500		µg/L	1	3/8/2023 5:02:00 PM
Chloroethane	ND	0.500		µg/L	1	3/8/2023 5:02:00 PM
Chloroform	ND	0.500		µg/L	1	3/8/2023 5:02:00 PM
Chloromethane	ND	0.500		µg/L	1	3/8/2023 5:02:00 PM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	3/8/2023 5:02:00 PM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	3/8/2023 5:02:00 PM
Dibromomethane	ND	0.500		µg/L	1	3/8/2023 5:02:00 PM
Dichlorodifluoromethane	ND	0.500		µg/L	1	3/8/2023 5:02:00 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
	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#: 23030475

Date Reported: 3/17/2023

**CLIENT:** OhioEPA-DDAGW  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030475-001  
**Client Sample ID:** PW-201 Well 008

**Collection Date:** 3/7/2023 9:30:00 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	3/8/2023 5:02:00 PM
Hexachloro-1,3-butadiene	ND	0.500		µg/L	1	3/8/2023 5:02:00 PM
Isopropylbenzene	ND	0.500		µg/L	1	3/8/2023 5:02:00 PM
m,p-Xylene	ND	0.500		µg/L	1	3/8/2023 5:02:00 PM
Methylene chloride	ND	0.500		µg/L	1	3/8/2023 5:02:00 PM
MTBE	ND	0.500		µg/L	1	3/8/2023 5:02:00 PM
n-Butylbenzene	ND	0.500		µg/L	1	3/8/2023 5:02:00 PM
n-Propylbenzene	ND	0.500		µg/L	1	3/8/2023 5:02:00 PM
o-Xylene	ND	0.500		µg/L	1	3/8/2023 5:02:00 PM
p-Isopropyltoluene	ND	0.500		µg/L	1	3/8/2023 5:02:00 PM
sec-Butylbenzene	ND	0.500		µg/L	1	3/8/2023 5:02:00 PM
Styrene	ND	0.500		µg/L	1	3/8/2023 5:02:00 PM
Tert-amyl methyl ether	ND	0.500		µg/L	1	3/8/2023 5:02:00 PM
Tert-butyl Alcohol	ND	5.00		µg/L	1	3/8/2023 5:02:00 PM
tert-Butylbenzene	ND	0.500		µg/L	1	3/8/2023 5:02:00 PM
Tetrachloroethene	ND	0.500		µg/L	1	3/8/2023 5:02:00 PM
Toluene	ND	0.500		µg/L	1	3/8/2023 5:02:00 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	3/8/2023 5:02:00 PM
trans-1,3-Dichloropropene	ND	0.500		µg/L	1	3/8/2023 5:02:00 PM
Trichloroethene	ND	0.500		µg/L	1	3/8/2023 5:02:00 PM
Trichlorofluoromethane	ND	0.500		µg/L	1	3/8/2023 5:02:00 PM
Vinyl chloride	ND	0.500		µg/L	1	3/8/2023 5:02:00 PM
Xylenes, Total	ND	0.500		µg/L	1	3/8/2023 5:02:00 PM
Surr: 1,2-Dichlorobenzene-d4	93.0	70 - 130		%Rec	1	3/8/2023 5:02:00 PM
Surr: 4-Bromofluorobenzene	95.2	70 - 130		%Rec	1	3/8/2023 5:02:00 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	3/8/2023 4:40:00 PM
1,3-Butadiene	ND	5.00		µg/L	1	3/8/2023 4:40:00 PM
1,4-Dioxane	ND	25.0		µg/L	1	3/8/2023 4:40:00 PM
2,2-Dichloropropane	ND	5.00		µg/L	1	3/8/2023 4:40:00 PM
2-Butanone	ND	25.0		µg/L	1	3/8/2023 4:40:00 PM
2-Nitropropane	ND	50.0		µg/L	1	3/8/2023 4:40:00 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#: 23030475

Date Reported: 3/17/2023

**CLIENT:** OhioEPA-DDAGW  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030475-001  
**Client Sample ID:** PW-201 Well 008

**Collection Date:** 3/7/2023 9:30:00 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>						
Acrylonitrile (2-propenenitrile)	ND	30.0		µg/L	1	3/8/2023 4:40:00 PM
Allyl chloride	ND	5.00		µg/L	1	3/8/2023 4:40:00 PM
Carbon disulfide	ND	5.00		µg/L	1	3/8/2023 4:40:00 PM
Chloroprene	ND	5.00		µg/L	1	3/8/2023 4:40:00 PM
Cyclohexanone	ND	5.00		µg/L	1	3/8/2023 4:40:00 PM
Ethyl Ether	ND	10.0		µg/L	1	3/8/2023 4:40:00 PM
Epichlorohydrin	ND	20.0		µg/L	1	3/8/2023 4:40:00 PM
ETBE	ND	5.00		µg/L	1	3/8/2023 4:40:00 PM
Ethyl acrylate	ND	5.00		µg/L	1	3/8/2023 4:40:00 PM
Ethyl methacrylate	ND	5.00		µg/L	1	3/8/2023 4:40:00 PM
Hexachloroethane	ND	5.00		µg/L	1	3/8/2023 4:40:00 PM
Diisopropyl ether (DIPE)	ND	5.00		µg/L	1	3/8/2023 4:40:00 PM
Methacrylonitrile	ND	5.00		µg/L	1	3/8/2023 4:40:00 PM
Methyl acrylate	ND	5.00		µg/L	1	3/8/2023 4:40:00 PM
Methyl methacrylate	ND	5.00		µg/L	1	3/8/2023 4:40:00 PM
Propionitrile	ND	5.00		µg/L	1	3/8/2023 4:40:00 PM
trans-1,4-Dichloro-2-butene	ND	5.00		µg/L	1	3/8/2023 4:40:00 PM
Vinyl acetate	ND	5.00		µg/L	1	3/8/2023 4:40:00 PM
1,2,3-Trimethylbenzene	ND	5.00	QC+	µg/L	1	3/8/2023 4:40:00 PM
Surr: 4-Bromofluorobenzene	97.7	70 - 130		%Rec	1	3/8/2023 4:40:00 PM
Surr: Dibromofluoromethane	99.4	70 - 130		%Rec	1	3/8/2023 4:40:00 PM
Surr: Toluene-d8	99.9	70 - 130		%Rec	1	3/8/2023 4:40:00 PM

<b>VOC TENTATIVELY IDENTIFIED COMPOUNDS (TICS)</b>				<b>SW8260</b>	Analyst: ZDA	
TIC: 1-Chlorobutane	ND		J	µg/L	1	3/8/2023 4:40:00 PM
TIC: 1-Methylnaphthalene	ND		J	µg/L	1	3/8/2023 4:40:00 PM
TIC: 2-Butyloxyethyl acetate	ND		J	µg/L	1	3/8/2023 4:40:00 PM
TIC: 2-Ethylhexyl acrylate	ND		J	µg/L	1	3/8/2023 4:40:00 PM
TIC: Benzyl chloride	ND		J	µg/L	1	3/8/2023 4:40:00 PM
TIC: Bromoethane	ND		J	µg/L	1	3/8/2023 4:40:00 PM
TIC: Chloroacetonitrile	ND		J	µg/L	1	3/8/2023 4:40:00 PM
TIC: n-Butyl acrylate	ND		J	µg/L	1	3/8/2023 4:40:00 PM
TIC: Pentachloroethane	ND		J	µg/L	1	3/8/2023 4:40:00 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#: 23030475

Date Reported: 3/17/2023

**CLIENT:** OhioEPA-DDAGW **Collection Date:** 3/7/2023 10:07:00 AM  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030475-002 **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: <b>JDB</b>	
Diethylene glycol	ND	5000		µg/L	1	3/8/2023 1:51:00 PM
Ethylene glycol	ND	5000		µg/L	1	3/8/2023 1:51:00 PM
Propylene glycol	ND	5000		µg/L	1	3/8/2023 1:51:00 PM
Triethylene glycol	ND	5000		µg/L	1	3/8/2023 1:51:00 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	3/15/2023 4:52:00 AM
Ethylene dibromide	ND	0.0200		µg/L	1	3/15/2023 4:52:00 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	0.190		µg/L	1	3/16/2023 3:55:00 AM
Acenaphthylene	ND	0.0952		µg/L	1	3/16/2023 3:55:00 AM
Anthracene	ND	0.0952		µg/L	1	3/16/2023 3:55:00 AM
Benzo(a)anthracene	ND	0.0952		µg/L	1	3/16/2023 3:55:00 AM
Benzo(a)pyrene	ND	0.0952	QL-	µg/L	1	3/16/2023 3:55:00 AM
Benzo(b)fluoranthene	ND	0.0952	QL-	µg/L	1	3/16/2023 3:55:00 AM
Benzo(g,h,i)perylene	ND	0.0952	QL-	µg/L	1	3/16/2023 3:55:00 AM
Benzo(k)fluoranthene	ND	0.0952		µg/L	1	3/16/2023 3:55:00 AM
Bis(2-ethylhexyl) phthalate	0.133	0.190	JQL-	µg/L	1	3/16/2023 3:55:00 AM
Butyl benzyl phthalate	ND	0.190		µg/L	1	3/16/2023 3:55:00 AM
Chrysene	ND	0.0952		µg/L	1	3/16/2023 3:55:00 AM
Dibenz(a,h)anthracene	ND	0.0952	QL-	µg/L	1	3/16/2023 3:55:00 AM
Diethyl phthalate	ND	0.0952		µg/L	1	3/16/2023 3:55:00 AM
Dimethyl phthalate	ND	0.190		µg/L	1	3/16/2023 3:55:00 AM
Di-n-butyl phthalate	0.343	0.190		µg/L	1	3/16/2023 3:55:00 AM
Fluorene	ND	0.0952		µg/L	1	3/16/2023 3:55:00 AM
Hexachlorobenzene	ND	0.0952		µg/L	1	3/16/2023 3:55:00 AM
Hexachlorocyclopentadiene	ND	0.0952		µg/L	1	3/16/2023 3:55:00 AM
Indeno(1,2,3-cd)pyrene	ND	0.952	QL-	µg/L	1	3/16/2023 3:55:00 AM
Isophorone	ND	0.190	QL-	µg/L	1	3/16/2023 3:55:00 AM
Phenanthrene	ND	0.0952		µg/L	1	3/16/2023 3:55:00 AM
Pyrene	ND	0.0952		µg/L	1	3/16/2023 3:55:00 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
	J	Analyte detected below quantitation limits		

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# Analytical Report

(consolidated)

WO#: 23030475

Date Reported: 3/17/2023

**CLIENT:** OhioEPA-DDAGW **Collection Date:** 3/7/2023 10:07:00 AM  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030475-002 **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...	76.6	70 - 130		%Rec	1	3/16/2023 3:55:00 AM
Surr: Benzo(a)pyrene-d12	86.0	70 - 130		%Rec	1	3/16/2023 3:55:00 AM
Surr: Triphenyl phosphate	112	70 - 130		%Rec	1	3/16/2023 3:55:00 AM
<b>SVOC BY SW8270E</b>				<b>SW8270</b>	<b>SW3510C</b>	Analyst: <b>JAP</b>
<b>SVOC BY 8270E</b>						
Benzoic acid	ND	15.4		µg/L	1	3/12/2023 6:43:00 AM
2,6-Dinitrotoluene	ND	0.962		µg/L	1	3/12/2023 6:43:00 AM
2-Butoxyethanol	ND	28.8	Z	µg/L	1	3/15/2023 10:03:00 PM
2-Methylnaphthalene	ND	0.962	QC+	µg/L	1	3/12/2023 6:43:00 AM
3,3'-Dichlorobenzidine	ND	9.62		µg/L	1	3/12/2023 6:43:00 AM
4-Nitrophenol	ND	4.81		µg/L	1	3/12/2023 6:43:00 AM
Acenaphthene	ND	0.962		µg/L	1	3/12/2023 6:43:00 AM
Bis(2-chloroethyl) ether	ND	0.962		µg/L	1	3/12/2023 6:43:00 AM
Di-n-octyl phthalate	ND	4.81		µg/L	1	3/12/2023 6:43:00 AM
Fluoranthene	ND	0.962		µg/L	1	3/12/2023 6:43:00 AM
Naphthalene	ND	0.962		µg/L	1	3/12/2023 6:43:00 AM
Phenol	ND	0.962		µg/L	1	3/12/2023 6:43:00 AM
3&4-Methylphenol	ND	0.962		µg/L	1	3/12/2023 6:43:00 AM
Surr: 2-Fluorophenol	36.3	20 - 130		%Rec	1	3/12/2023 6:43:00 AM
Surr: Phenol-d6	25.2	20 - 130		%Rec	1	3/12/2023 6:43:00 AM
Surr: Nitrobenzene-d5	64.5	27.4 - 130		%Rec	1	3/12/2023 6:43:00 AM
Surr: 2,4,6-Tribromophenol	68.5	54.3 - 133		%Rec	1	3/12/2023 6:43:00 AM
Surr: 2-Fluorobiphenyl	75.0	25.6 - 130		%Rec	1	3/12/2023 6:43:00 AM
Surr: p-Terphenyl-d14	125	20 - 181		%Rec	1	3/12/2023 6:43:00 AM
<b>DRINKING WATER VOCs (EPA 524.2)</b>				<b>E524.2</b>		Analyst: <b>ZDA</b>
<b>VOC-GC/MS (524.2)</b>						
1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	3/8/2023 9:44:00 PM
1,1,1-Trichloroethane	ND	0.500		µg/L	1	3/8/2023 9:44:00 PM
1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	3/8/2023 9:44:00 PM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	3/8/2023 9:44:00 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/8/2023 9:44:00 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	3/8/2023 9:44:00 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#: 23030475

Date Reported: 3/17/2023

**CLIENT:** OhioEPA-DDAGW  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030475-002  
**Client Sample ID:** PW-202 Rhoades Well

**Collection Date:** 3/7/2023 10:07:00 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: ZDA	
<b>VOC-GC/MS (524.2)</b>						
1,1-Dichloropropene	ND	0.500		µg/L	1	3/8/2023 9:44:00 PM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	3/8/2023 9:44:00 PM
1,2,3-Trichloropropane	ND	0.500		µg/L	1	3/8/2023 9:44:00 PM
1,2,4-Trichlorobenzene	ND	0.500		µg/L	1	3/8/2023 9:44:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	3/8/2023 9:44:00 PM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	3/8/2023 9:44:00 PM
1,2-Dichloroethane	ND	0.500		µg/L	1	3/8/2023 9:44:00 PM
1,2-Dichloropropane	ND	0.500		µg/L	1	3/8/2023 9:44:00 PM
1,3,5-Trimethylbenzene	ND	0.500		µg/L	1	3/8/2023 9:44:00 PM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	3/8/2023 9:44:00 PM
1,3-Dichloropropane	ND	0.500		µg/L	1	3/8/2023 9:44:00 PM
1,3-Dichloropropene, Total	ND	1.00		µg/L	1	3/8/2023 9:44:00 PM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	3/8/2023 9:44:00 PM
2-Chlorotoluene	ND	0.500		µg/L	1	3/8/2023 9:44:00 PM
2-Hexanone	ND	5.00		µg/L	1	3/8/2023 9:44:00 PM
4-Chlorotoluene	ND	0.500		µg/L	1	3/8/2023 9:44:00 PM
4-Methyl-2-pentanone	ND	5.00		µg/L	1	3/8/2023 9:44:00 PM
Acetone	ND	5.00		µg/L	1	3/8/2023 9:44:00 PM
Benzene	ND	0.500		µg/L	1	3/8/2023 9:44:00 PM
Bromobenzene	ND	0.500		µg/L	1	3/8/2023 9:44:00 PM
Bromodichloromethane	ND	0.500		µg/L	1	3/8/2023 9:44:00 PM
Bromoform	ND	0.500		µg/L	1	3/8/2023 9:44:00 PM
Bromomethane	ND	1.00		µg/L	1	3/8/2023 9:44:00 PM
Carbon tetrachloride	ND	0.500		µg/L	1	3/8/2023 9:44:00 PM
Chlorobenzene	ND	0.500		µg/L	1	3/8/2023 9:44:00 PM
Chlorobromomethane	ND	0.500		µg/L	1	3/8/2023 9:44:00 PM
Chlorodibromomethane	ND	0.500		µg/L	1	3/8/2023 9:44:00 PM
Chloroethane	ND	0.500		µg/L	1	3/8/2023 9:44:00 PM
Chloroform	ND	0.500		µg/L	1	3/8/2023 9:44:00 PM
Chloromethane	ND	0.500		µg/L	1	3/8/2023 9:44:00 PM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	3/8/2023 9:44:00 PM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	3/8/2023 9:44:00 PM
Dibromomethane	ND	0.500		µg/L	1	3/8/2023 9:44:00 PM
Dichlorodifluoromethane	ND	0.500		µg/L	1	3/8/2023 9:44:00 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





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

# Analytical Report

(consolidated)

WO#: 23030475

Date Reported: 3/17/2023

**CLIENT:** OhioEPA-DDAGW  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030475-002  
**Client Sample ID:** PW-202 Rhoades Well

**Collection Date:** 3/7/2023 10:07:00 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: ZDA	
<b>VOC-GC/MS (524.2)</b>						
Ethylbenzene	ND	0.500		µg/L	1	3/8/2023 9:44:00 PM
Hexachloro-1,3-butadiene	ND	0.500		µg/L	1	3/8/2023 9:44:00 PM
Isopropylbenzene	ND	0.500		µg/L	1	3/8/2023 9:44:00 PM
m,p-Xylene	ND	0.500		µg/L	1	3/8/2023 9:44:00 PM
Methylene chloride	ND	0.500		µg/L	1	3/8/2023 9:44:00 PM
MTBE	ND	0.500		µg/L	1	3/8/2023 9:44:00 PM
n-Butylbenzene	ND	0.500		µg/L	1	3/8/2023 9:44:00 PM
n-Propylbenzene	ND	0.500		µg/L	1	3/8/2023 9:44:00 PM
o-Xylene	ND	0.500		µg/L	1	3/8/2023 9:44:00 PM
p-Isopropyltoluene	ND	0.500		µg/L	1	3/8/2023 9:44:00 PM
sec-Butylbenzene	ND	0.500		µg/L	1	3/8/2023 9:44:00 PM
Styrene	ND	0.500		µg/L	1	3/8/2023 9:44:00 PM
Tert-amyl methyl ether	ND	0.500		µg/L	1	3/8/2023 9:44:00 PM
Tert-butyl Alcohol	ND	5.00		µg/L	1	3/8/2023 9:44:00 PM
tert-Butylbenzene	ND	0.500		µg/L	1	3/8/2023 9:44:00 PM
Tetrachloroethene	ND	0.500		µg/L	1	3/8/2023 9:44:00 PM
Toluene	ND	0.500		µg/L	1	3/8/2023 9:44:00 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	3/8/2023 9:44:00 PM
trans-1,3-Dichloropropene	ND	0.500		µg/L	1	3/8/2023 9:44:00 PM
Trichloroethene	ND	0.500		µg/L	1	3/8/2023 9:44:00 PM
Trichlorofluoromethane	ND	0.500		µg/L	1	3/8/2023 9:44:00 PM
Vinyl chloride	ND	0.500		µg/L	1	3/8/2023 9:44:00 PM
Xylenes, Total	ND	0.500		µg/L	1	3/8/2023 9:44:00 PM
Surr: 1,2-Dichlorobenzene-d4	85.8	70 - 130		%Rec	1	3/8/2023 9:44:00 PM
Surr: 4-Bromofluorobenzene	81.5	70 - 130		%Rec	1	3/8/2023 9:44:00 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	3/8/2023 5:03:00 PM
1,3-Butadiene	ND	5.00		µg/L	1	3/8/2023 5:03:00 PM
1,4-Dioxane	ND	25.0		µg/L	1	3/8/2023 5:03:00 PM
2,2-Dichloropropane	ND	5.00		µg/L	1	3/8/2023 5:03:00 PM
2-Butanone	ND	25.0		µg/L	1	3/8/2023 5:03:00 PM
2-Nitropropane	ND	50.0		µg/L	1	3/8/2023 5:03:00 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#: 23030475

Date Reported: 3/17/2023

**CLIENT:** OhioEPA-DDAGW

**Collection Date:** 3/7/2023 10:07:00 AM

**Project:** Ohio EPA PWS-EP

**Lab ID:** 23030475-002

**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>						
Acrylonitrile (2-propenenitrile)	ND	30.0		µg/L	1	3/8/2023 5:03:00 PM
Allyl chloride	ND	5.00		µg/L	1	3/8/2023 5:03:00 PM
Carbon disulfide	ND	5.00		µg/L	1	3/8/2023 5:03:00 PM
Chloroprene	ND	5.00		µg/L	1	3/8/2023 5:03:00 PM
Cyclohexanone	ND	5.00		µg/L	1	3/8/2023 5:03:00 PM
Ethyl Ether	ND	10.0		µg/L	1	3/8/2023 5:03:00 PM
Epichlorohydrin	ND	20.0		µg/L	1	3/8/2023 5:03:00 PM
ETBE	ND	5.00		µg/L	1	3/8/2023 5:03:00 PM
Ethyl acrylate	ND	5.00		µg/L	1	3/8/2023 5:03:00 PM
Ethyl methacrylate	ND	5.00		µg/L	1	3/8/2023 5:03:00 PM
Hexachloroethane	ND	5.00		µg/L	1	3/8/2023 5:03:00 PM
Diisopropyl ether (DIPE)	ND	5.00		µg/L	1	3/8/2023 5:03:00 PM
Methacrylonitrile	ND	5.00		µg/L	1	3/8/2023 5:03:00 PM
Methyl acrylate	ND	5.00		µg/L	1	3/8/2023 5:03:00 PM
Methyl methacrylate	ND	5.00		µg/L	1	3/8/2023 5:03:00 PM
Propionitrile	ND	5.00		µg/L	1	3/8/2023 5:03:00 PM
trans-1,4-Dichloro-2-butene	ND	5.00		µg/L	1	3/8/2023 5:03:00 PM
Vinyl acetate	ND	5.00		µg/L	1	3/8/2023 5:03:00 PM
1,2,3-Trimethylbenzene	ND	5.00	QC+	µg/L	1	3/8/2023 5:03:00 PM
Surr: 4-Bromofluorobenzene	95.4	70 - 130		%Rec	1	3/8/2023 5:03:00 PM
Surr: Dibromofluoromethane	104	70 - 130		%Rec	1	3/8/2023 5:03:00 PM
Surr: Toluene-d8	101	70 - 130		%Rec	1	3/8/2023 5:03:00 PM

<b>VOC TENTATIVELY IDENTIFIED COMPOUNDS (TICS)</b>				<b>SW8260</b>	Analyst: ZDA	
TIC: 1-Chlorobutane	ND		J	µg/L	1	3/8/2023 5:03:00 PM
TIC: 1-Methylnaphthalene	ND		J	µg/L	1	3/8/2023 5:03:00 PM
TIC: 2-Butyloxyethyl acetate	ND		J	µg/L	1	3/8/2023 5:03:00 PM
TIC: 2-Ethylhexyl acrylate	ND		J	µg/L	1	3/8/2023 5:03:00 PM
TIC: Benzyl chloride	ND		J	µg/L	1	3/8/2023 5:03:00 PM
TIC: Bromoethane	ND		J	µg/L	1	3/8/2023 5:03:00 PM
TIC: Chloroacetonitrile	ND		J	µg/L	1	3/8/2023 5:03:00 PM
TIC: n-Butyl acrylate	ND		J	µg/L	1	3/8/2023 5:03:00 PM
TIC: Pentachloroethane	ND		J	µg/L	1	3/8/2023 5:03:00 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#: 23030475

Date Reported: 3/17/2023

**CLIENT:** OhioEPA-DDAGW **Collection Date:** 3/7/2023 10:46:00 AM  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030475-003 **Matrix:** DRINKING WATER  
**Client Sample ID:** PW-203 Nulf 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	3/8/2023 2:28:00 PM
Ethylene glycol	ND	5000		µg/L	1	3/8/2023 2:28:00 PM
Propylene glycol	ND	5000		µg/L	1	3/8/2023 2:28:00 PM
Triethylene glycol	ND	5000		µg/L	1	3/8/2023 2:28:00 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	3/15/2023 5:13:00 AM
Ethylene dibromide	ND	0.0200		µg/L	1	3/15/2023 5:13:00 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	0.189		µg/L	1	3/16/2023 4:41:00 AM
Acenaphthylene	ND	0.0943		µg/L	1	3/16/2023 4:41:00 AM
Anthracene	ND	0.0943		µg/L	1	3/16/2023 4:41:00 AM
Benzo(a)anthracene	ND	0.0943		µg/L	1	3/16/2023 4:41:00 AM
Benzo(a)pyrene	ND	0.0943	QL-	µg/L	1	3/16/2023 4:41:00 AM
Benzo(b)fluoranthene	ND	0.0943	QL-	µg/L	1	3/16/2023 4:41:00 AM
Benzo(g,h,i)perylene	ND	0.0943	QL-	µg/L	1	3/16/2023 4:41:00 AM
Benzo(k)fluoranthene	ND	0.0943		µg/L	1	3/16/2023 4:41:00 AM
Bis(2-ethylhexyl) phthalate	0.142	0.189	JQL-	µg/L	1	3/16/2023 4:41:00 AM
Butyl benzyl phthalate	ND	0.189		µg/L	1	3/16/2023 4:41:00 AM
Chrysene	ND	0.0943		µg/L	1	3/16/2023 4:41:00 AM
Dibenz(a,h)anthracene	ND	0.0943	QL-	µg/L	1	3/16/2023 4:41:00 AM
Diethyl phthalate	ND	0.0943		µg/L	1	3/16/2023 4:41:00 AM
Dimethyl phthalate	ND	0.189		µg/L	1	3/16/2023 4:41:00 AM
Di-n-butyl phthalate	ND	0.189		µg/L	1	3/16/2023 4:41:00 AM
Fluorene	ND	0.0943		µg/L	1	3/16/2023 4:41:00 AM
Hexachlorobenzene	ND	0.0943		µg/L	1	3/16/2023 4:41:00 AM
Hexachlorocyclopentadiene	ND	0.0943		µg/L	1	3/16/2023 4:41:00 AM
Indeno(1,2,3-cd)pyrene	ND	0.943	QL-	µg/L	1	3/16/2023 4:41:00 AM
Isophorone	ND	0.189	QL-	µg/L	1	3/16/2023 4:41:00 AM
Phenanthrene	ND	0.0943		µg/L	1	3/16/2023 4:41:00 AM
Pyrene	ND	0.0943		µg/L	1	3/16/2023 4:41:00 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#: 23030475

Date Reported: 3/17/2023

**CLIENT:** OhioEPA-DDAGW  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030475-003  
**Client Sample ID:** PW-203 Nulf Well

**Collection Date:** 3/7/2023 10:46:00 AM

**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-nitrobenz...	74.8	70 - 130		%Rec	1	3/16/2023 4:41:00 AM
Surr: Benzo(a)pyrene-d12	93.4	70 - 130		%Rec	1	3/16/2023 4:41:00 AM
Surr: Triphenyl phosphate	108	70 - 130		%Rec	1	3/16/2023 4:41:00 AM
<b>SVOC BY SW8270E</b>					<b>SW8270</b>	<b>SW3510C</b>
<b>SVOC BY 8270E</b>						Analyst: <b>JAP</b>
Benzoic acid	ND	15.4		µg/L	1	3/12/2023 7:15:00 AM
2,6-Dinitrotoluene	ND	0.962		µg/L	1	3/12/2023 7:15:00 AM
2-Butoxyethanol	ND	28.8	Z	µg/L	1	3/15/2023 10:23:00 PM
2-Methylnaphthalene	ND	0.962	QC+	µg/L	1	3/12/2023 7:15:00 AM
3,3'-Dichlorobenzidine	ND	9.62		µg/L	1	3/12/2023 7:15:00 AM
4-Nitrophenol	ND	4.81		µg/L	1	3/12/2023 7:15:00 AM
Acenaphthene	ND	0.962		µg/L	1	3/12/2023 7:15:00 AM
Bis(2-chloroethyl) ether	ND	0.962		µg/L	1	3/12/2023 7:15:00 AM
Di-n-octyl phthalate	ND	4.81		µg/L	1	3/12/2023 7:15:00 AM
Fluoranthene	ND	0.962		µg/L	1	3/12/2023 7:15:00 AM
Naphthalene	ND	0.962		µg/L	1	3/12/2023 7:15:00 AM
Phenol	ND	0.962		µg/L	1	3/12/2023 7:15:00 AM
3&4-Methylphenol	ND	0.962		µg/L	1	3/12/2023 7:15:00 AM
Surr: 2-Fluorophenol	39.1	20 - 130		%Rec	1	3/12/2023 7:15:00 AM
Surr: Phenol-d6	26.7	20 - 130		%Rec	1	3/12/2023 7:15:00 AM
Surr: Nitrobenzene-d5	76.0	27.4 - 130		%Rec	1	3/12/2023 7:15:00 AM
Surr: 2,4,6-Tribromophenol	73.1	54.3 - 133		%Rec	1	3/12/2023 7:15:00 AM
Surr: 2-Fluorobiphenyl	85.1	25.6 - 130		%Rec	1	3/12/2023 7:15:00 AM
Surr: p-Terphenyl-d14	123	20 - 181		%Rec	1	3/12/2023 7:15:00 AM
<b>DRINKING WATER VOCs (EPA 524.2)</b>					<b>E524.2</b>	<b>Analyst: ZDA</b>
<b>VOC-GC/MS (524.2)</b>						
1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	3/8/2023 11:39:00 PM
1,1,1-Trichloroethane	ND	0.500		µg/L	1	3/8/2023 11:39:00 PM
1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	3/8/2023 11:39:00 PM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	3/8/2023 11:39:00 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/8/2023 11:39:00 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	3/8/2023 11:39:00 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#: 23030475

Date Reported: 3/17/2023

**CLIENT:** OhioEPA-DDAGW  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030475-003  
**Client Sample ID:** PW-203 Nulf Well

**Collection Date:** 3/7/2023 10:46:00 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: ZDA	
<b>VOC-GC/MS (524.2)</b>						
1,1-Dichloropropene	ND	0.500		µg/L	1	3/8/2023 11:39:00 PM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	3/8/2023 11:39:00 PM
1,2,3-Trichloropropane	ND	0.500		µg/L	1	3/8/2023 11:39:00 PM
1,2,4-Trichlorobenzene	ND	0.500		µg/L	1	3/8/2023 11:39:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	3/8/2023 11:39:00 PM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	3/8/2023 11:39:00 PM
1,2-Dichloroethane	ND	0.500		µg/L	1	3/8/2023 11:39:00 PM
1,2-Dichloropropane	ND	0.500		µg/L	1	3/8/2023 11:39:00 PM
1,3,5-Trimethylbenzene	ND	0.500		µg/L	1	3/8/2023 11:39:00 PM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	3/8/2023 11:39:00 PM
1,3-Dichloropropane	ND	0.500		µg/L	1	3/8/2023 11:39:00 PM
1,3-Dichloropropene, Total	ND	1.00		µg/L	1	3/8/2023 11:39:00 PM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	3/8/2023 11:39:00 PM
2-Chlorotoluene	ND	0.500		µg/L	1	3/8/2023 11:39:00 PM
2-Hexanone	ND	5.00		µg/L	1	3/8/2023 11:39:00 PM
4-Chlorotoluene	ND	0.500		µg/L	1	3/8/2023 11:39:00 PM
4-Methyl-2-pentanone	ND	5.00		µg/L	1	3/8/2023 11:39:00 PM
Acetone	ND	5.00		µg/L	1	3/8/2023 11:39:00 PM
Benzene	ND	0.500		µg/L	1	3/8/2023 11:39:00 PM
Bromobenzene	ND	0.500		µg/L	1	3/8/2023 11:39:00 PM
Bromodichloromethane	ND	0.500		µg/L	1	3/8/2023 11:39:00 PM
Bromoform	ND	0.500		µg/L	1	3/8/2023 11:39:00 PM
Bromomethane	ND	1.00		µg/L	1	3/8/2023 11:39:00 PM
Carbon tetrachloride	ND	0.500		µg/L	1	3/8/2023 11:39:00 PM
Chlorobenzene	ND	0.500		µg/L	1	3/8/2023 11:39:00 PM
Chlorobromomethane	ND	0.500		µg/L	1	3/8/2023 11:39:00 PM
Chlorodibromomethane	ND	0.500		µg/L	1	3/8/2023 11:39:00 PM
Chloroethane	ND	0.500		µg/L	1	3/8/2023 11:39:00 PM
Chloroform	ND	0.500		µg/L	1	3/8/2023 11:39:00 PM
Chloromethane	ND	0.500		µg/L	1	3/8/2023 11:39:00 PM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	3/8/2023 11:39:00 PM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	3/8/2023 11:39:00 PM
Dibromomethane	ND	0.500		µg/L	1	3/8/2023 11:39:00 PM
Dichlorodifluoromethane	ND	0.500		µg/L	1	3/8/2023 11:39:00 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#: 23030475

Date Reported: 3/17/2023

**CLIENT:** OhioEPA-DDAGW  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030475-003  
**Client Sample ID:** PW-203 Nulf Well

**Collection Date:** 3/7/2023 10:46:00 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: ZDA	
<b>VOC-GC/MS (524.2)</b>						
Ethylbenzene	ND	0.500		µg/L	1	3/8/2023 11:39:00 PM
Hexachloro-1,3-butadiene	ND	0.500		µg/L	1	3/8/2023 11:39:00 PM
Isopropylbenzene	ND	0.500		µg/L	1	3/8/2023 11:39:00 PM
m,p-Xylene	ND	0.500		µg/L	1	3/8/2023 11:39:00 PM
Methylene chloride	ND	0.500		µg/L	1	3/8/2023 11:39:00 PM
MTBE	ND	0.500		µg/L	1	3/8/2023 11:39:00 PM
n-Butylbenzene	ND	0.500		µg/L	1	3/8/2023 11:39:00 PM
n-Propylbenzene	ND	0.500		µg/L	1	3/8/2023 11:39:00 PM
o-Xylene	ND	0.500		µg/L	1	3/8/2023 11:39:00 PM
p-Isopropyltoluene	ND	0.500		µg/L	1	3/8/2023 11:39:00 PM
sec-Butylbenzene	ND	0.500		µg/L	1	3/8/2023 11:39:00 PM
Styrene	ND	0.500		µg/L	1	3/8/2023 11:39:00 PM
Tert-amyl methyl ether	ND	0.500		µg/L	1	3/8/2023 11:39:00 PM
Tert-butyl Alcohol	ND	5.00		µg/L	1	3/8/2023 11:39:00 PM
tert-Butylbenzene	ND	0.500		µg/L	1	3/8/2023 11:39:00 PM
Tetrachloroethene	ND	0.500		µg/L	1	3/8/2023 11:39:00 PM
Toluene	ND	0.500		µg/L	1	3/8/2023 11:39:00 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	3/8/2023 11:39:00 PM
trans-1,3-Dichloropropene	ND	0.500		µg/L	1	3/8/2023 11:39:00 PM
Trichloroethene	ND	0.500		µg/L	1	3/8/2023 11:39:00 PM
Trichlorofluoromethane	ND	0.500		µg/L	1	3/8/2023 11:39:00 PM
Vinyl chloride	ND	0.500		µg/L	1	3/8/2023 11:39:00 PM
Xylenes, Total	ND	0.500		µg/L	1	3/8/2023 11:39:00 PM
Surr: 1,2-Dichlorobenzene-d4	83.4	70 - 130		%Rec	1	3/8/2023 11:39:00 PM
Surr: 4-Bromofluorobenzene	81.7	70 - 130		%Rec	1	3/8/2023 11:39:00 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	3/8/2023 5:27:00 PM
1,3-Butadiene	ND	5.00		µg/L	1	3/8/2023 5:27:00 PM
1,4-Dioxane	ND	25.0		µg/L	1	3/8/2023 5:27:00 PM
2,2-Dichloropropane	ND	5.00		µg/L	1	3/8/2023 5:27:00 PM
2-Butanone	ND	25.0		µg/L	1	3/8/2023 5:27:00 PM
2-Nitropropane	ND	50.0		µg/L	1	3/8/2023 5:27:00 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#: 23030475

Date Reported: 3/17/2023

**CLIENT:** OhioEPA-DDAGW **Collection Date:** 3/7/2023 10:46:00 AM  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030475-003 **Matrix:** DRINKING WATER  
**Client Sample ID:** PW-203 Nulf 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>						
Acrylonitrile (2-propenenitrile)	ND	30.0		µg/L	1	3/8/2023 5:27:00 PM
Allyl chloride	ND	5.00		µg/L	1	3/8/2023 5:27:00 PM
Carbon disulfide	ND	5.00		µg/L	1	3/8/2023 5:27:00 PM
Chloroprene	ND	5.00		µg/L	1	3/8/2023 5:27:00 PM
Cyclohexanone	ND	5.00		µg/L	1	3/8/2023 5:27:00 PM
Ethyl Ether	ND	10.0		µg/L	1	3/8/2023 5:27:00 PM
Epichlorohydrin	ND	20.0		µg/L	1	3/8/2023 5:27:00 PM
ETBE	ND	5.00		µg/L	1	3/8/2023 5:27:00 PM
Ethyl acrylate	ND	5.00		µg/L	1	3/8/2023 5:27:00 PM
Ethyl methacrylate	ND	5.00		µg/L	1	3/8/2023 5:27:00 PM
Hexachloroethane	ND	5.00		µg/L	1	3/8/2023 5:27:00 PM
Diisopropyl ether (DIPE)	ND	5.00		µg/L	1	3/8/2023 5:27:00 PM
Methacrylonitrile	ND	5.00		µg/L	1	3/8/2023 5:27:00 PM
Methyl acrylate	ND	5.00		µg/L	1	3/8/2023 5:27:00 PM
Methyl methacrylate	ND	5.00		µg/L	1	3/8/2023 5:27:00 PM
Propionitrile	ND	5.00		µg/L	1	3/8/2023 5:27:00 PM
trans-1,4-Dichloro-2-butene	ND	5.00		µg/L	1	3/8/2023 5:27:00 PM
Vinyl acetate	ND	5.00		µg/L	1	3/8/2023 5:27:00 PM
1,2,3-Trimethylbenzene	ND	5.00	QC+	µg/L	1	3/8/2023 5:27:00 PM
Surr: 4-Bromofluorobenzene	97.5	70 - 130		%Rec	1	3/8/2023 5:27:00 PM
Surr: Dibromofluoromethane	99.8	70 - 130		%Rec	1	3/8/2023 5:27:00 PM
Surr: Toluene-d8	100	70 - 130		%Rec	1	3/8/2023 5:27:00 PM

<b>VOC TENTATIVELY IDENTIFIED COMPOUNDS (TICS)</b>				<b>SW8260</b>	Analyst: ZDA	
TIC: 1-Chlorobutane	ND		J	µg/L	1	3/8/2023 5:27:00 PM
TIC: 1-Methylnaphthalene	ND		J	µg/L	1	3/8/2023 5:27:00 PM
TIC: 2-Butyloxyethyl acetate	ND		J	µg/L	1	3/8/2023 5:27:00 PM
TIC: 2-Ethylhexyl acrylate	ND		J	µg/L	1	3/8/2023 5:27:00 PM
TIC: Benzyl chloride	ND		J	µg/L	1	3/8/2023 5:27:00 PM
TIC: Bromoethane	ND		J	µg/L	1	3/8/2023 5:27:00 PM
TIC: Chloroacetonitrile	ND		J	µg/L	1	3/8/2023 5:27:00 PM
TIC: n-Butyl acrylate	ND		J	µg/L	1	3/8/2023 5:27:00 PM
TIC: Pentachloroethane	ND		J	µg/L	1	3/8/2023 5:27:00 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#: 23030475

Date Reported: 3/17/2023

**CLIENT:** OhioEPA-DDAGW **Collection Date:** 3/7/2023 11:20:00 AM  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030475-004 **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	3/8/2023 3:05:00 PM
Ethylene glycol	ND	5000		µg/L	1	3/8/2023 3:05:00 PM
Propylene glycol	ND	5000		µg/L	1	3/8/2023 3:05:00 PM
Triethylene glycol	ND	5000		µg/L	1	3/8/2023 3:05:00 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	3/15/2023 5:33:00 AM
Ethylene dibromide	ND	0.0200		µg/L	1	3/15/2023 5:33:00 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	0.189		µg/L	1	3/16/2023 5:28:00 AM
Acenaphthylene	ND	0.0943		µg/L	1	3/16/2023 5:28:00 AM
Anthracene	ND	0.0943		µg/L	1	3/16/2023 5:28:00 AM
Benzo(a)anthracene	ND	0.0943		µg/L	1	3/16/2023 5:28:00 AM
Benzo(a)pyrene	ND	0.0943	QL-	µg/L	1	3/16/2023 5:28:00 AM
Benzo(b)fluoranthene	ND	0.0943	QL-	µg/L	1	3/16/2023 5:28:00 AM
Benzo(g,h,i)perylene	ND	0.0943	QL-	µg/L	1	3/16/2023 5:28:00 AM
Benzo(k)fluoranthene	ND	0.0943		µg/L	1	3/16/2023 5:28:00 AM
Bis(2-ethylhexyl) phthalate	0.142	0.189	JQL-	µg/L	1	3/16/2023 5:28:00 AM
Butyl benzyl phthalate	ND	0.189		µg/L	1	3/16/2023 5:28:00 AM
Chrysene	ND	0.0943		µg/L	1	3/16/2023 5:28:00 AM
Dibenz(a,h)anthracene	ND	0.0943	QL-	µg/L	1	3/16/2023 5:28:00 AM
Diethyl phthalate	ND	0.0943		µg/L	1	3/16/2023 5:28:00 AM
Dimethyl phthalate	ND	0.189		µg/L	1	3/16/2023 5:28:00 AM
Di-n-butyl phthalate	ND	0.189		µg/L	1	3/16/2023 5:28:00 AM
Fluorene	ND	0.0943		µg/L	1	3/16/2023 5:28:00 AM
Hexachlorobenzene	ND	0.0943		µg/L	1	3/16/2023 5:28:00 AM
Hexachlorocyclopentadiene	ND	0.0943		µg/L	1	3/16/2023 5:28:00 AM
Indeno(1,2,3-cd)pyrene	ND	0.943	QL-	µg/L	1	3/16/2023 5:28:00 AM
Isophorone	ND	0.189	QL-	µg/L	1	3/16/2023 5:28:00 AM
Phenanthrene	ND	0.0943		µg/L	1	3/16/2023 5:28:00 AM
Pyrene	ND	0.0943		µg/L	1	3/16/2023 5:28:00 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#: 23030475

Date Reported: 3/17/2023

**CLIENT:** OhioEPA-DDAGW **Collection Date:** 3/7/2023 11:20:00 AM  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030475-004 **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>	Analyst: <b>CSS</b>
<b>SYNTHETIC ORGANIC COMPOUNDS BY GC/MS (EPA 525.3)</b>						
Surr: 1,3-Dimethyl-2-nitrobenz...	79.4	70 - 130		%Rec	1	3/16/2023 5:28:00 AM
Surr: Benzo(a)pyrene-d12	91.8	70 - 130		%Rec	1	3/16/2023 5:28:00 AM
Surr: Triphenyl phosphate	108	70 - 130		%Rec	1	3/16/2023 5:28:00 AM
<b>SVOC BY SW8270E</b>				<b>SW8270</b>	<b>SW3510C</b>	Analyst: <b>JAP</b>
<b>SVOC BY 8270E</b>						
Benzoic acid	ND	15.2		µg/L	1	3/12/2023 7:46:00 AM
2,6-Dinitrotoluene	ND	0.952		µg/L	1	3/12/2023 7:46:00 AM
2-Butoxyethanol	ND	28.6	Z	µg/L	1	3/15/2023 10:42:00 PM
2-Methylnaphthalene	ND	0.952	QC+	µg/L	1	3/12/2023 7:46:00 AM
3,3'-Dichlorobenzidine	ND	9.52		µg/L	1	3/12/2023 7:46:00 AM
4-Nitrophenol	ND	4.76		µg/L	1	3/12/2023 7:46:00 AM
Acenaphthene	ND	0.952		µg/L	1	3/12/2023 7:46:00 AM
Bis(2-chloroethyl) ether	ND	0.952		µg/L	1	3/12/2023 7:46:00 AM
Di-n-octyl phthalate	ND	4.76		µg/L	1	3/12/2023 7:46:00 AM
Fluoranthene	ND	0.952		µg/L	1	3/12/2023 7:46:00 AM
Naphthalene	ND	0.952		µg/L	1	3/12/2023 7:46:00 AM
Phenol	ND	0.952		µg/L	1	3/12/2023 7:46:00 AM
3&4-Methylphenol	ND	0.952		µg/L	1	3/12/2023 7:46:00 AM
Surr: 2-Fluorophenol	35.4	20 - 130		%Rec	1	3/12/2023 7:46:00 AM
Surr: Phenol-d6	25.4	20 - 130		%Rec	1	3/12/2023 7:46:00 AM
Surr: Nitrobenzene-d5	68.6	27.4 - 130		%Rec	1	3/12/2023 7:46:00 AM
Surr: 2,4,6-Tribromophenol	73.3	54.3 - 133		%Rec	1	3/12/2023 7:46:00 AM
Surr: 2-Fluorobiphenyl	76.4	25.6 - 130		%Rec	1	3/12/2023 7:46:00 AM
Surr: p-Terphenyl-d14	124	20 - 181		%Rec	1	3/12/2023 7:46:00 AM
<b>DRINKING WATER VOCs (EPA 524.2)</b>				<b>E524.2</b>		Analyst: <b>ZDA</b>
<b>VOC-GC/MS (524.2)</b>						
1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	3/9/2023 12:08:00 AM
1,1,1-Trichloroethane	ND	0.500		µg/L	1	3/9/2023 12:08:00 AM
1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	3/9/2023 12:08:00 AM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	3/9/2023 12:08:00 AM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/9/2023 12:08:00 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	3/9/2023 12:08:00 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					

Original



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# Analytical Report

(consolidated)

WO#: 23030475

Date Reported: 3/17/2023

**CLIENT:** OhioEPA-DDAGW  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030475-004  
**Client Sample ID:** PW-204 Harding Well

**Collection Date:** 3/7/2023 11:20:00 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: ZDA	
<b>VOC-GC/MS (524.2)</b>						
1,1-Dichloropropene	ND	0.500		µg/L	1	3/9/2023 12:08:00 AM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	3/9/2023 12:08:00 AM
1,2,3-Trichloropropane	ND	0.500		µg/L	1	3/9/2023 12:08:00 AM
1,2,4-Trichlorobenzene	ND	0.500		µg/L	1	3/9/2023 12:08:00 AM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	3/9/2023 12:08:00 AM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	3/9/2023 12:08:00 AM
1,2-Dichloroethane	ND	0.500		µg/L	1	3/9/2023 12:08:00 AM
1,2-Dichloropropane	ND	0.500		µg/L	1	3/9/2023 12:08:00 AM
1,3,5-Trimethylbenzene	ND	0.500		µg/L	1	3/9/2023 12:08:00 AM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	3/9/2023 12:08:00 AM
1,3-Dichloropropane	ND	0.500		µg/L	1	3/9/2023 12:08:00 AM
1,3-Dichloropropene, Total	ND	1.00		µg/L	1	3/9/2023 12:08:00 AM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	3/9/2023 12:08:00 AM
2-Chlorotoluene	ND	0.500		µg/L	1	3/9/2023 12:08:00 AM
2-Hexanone	ND	5.00		µg/L	1	3/9/2023 12:08:00 AM
4-Chlorotoluene	ND	0.500		µg/L	1	3/9/2023 12:08:00 AM
4-Methyl-2-pentanone	ND	5.00		µg/L	1	3/9/2023 12:08:00 AM
Acetone	ND	5.00		µg/L	1	3/9/2023 12:08:00 AM
Benzene	ND	0.500		µg/L	1	3/9/2023 12:08:00 AM
Bromobenzene	ND	0.500		µg/L	1	3/9/2023 12:08:00 AM
Bromodichloromethane	ND	0.500		µg/L	1	3/9/2023 12:08:00 AM
Bromoform	ND	0.500		µg/L	1	3/9/2023 12:08:00 AM
Bromomethane	ND	1.00		µg/L	1	3/9/2023 12:08:00 AM
Carbon tetrachloride	ND	0.500		µg/L	1	3/9/2023 12:08:00 AM
Chlorobenzene	ND	0.500		µg/L	1	3/9/2023 12:08:00 AM
Chlorobromomethane	ND	0.500		µg/L	1	3/9/2023 12:08:00 AM
Chlorodibromomethane	ND	0.500		µg/L	1	3/9/2023 12:08:00 AM
Chloroethane	ND	0.500		µg/L	1	3/9/2023 12:08:00 AM
Chloroform	ND	0.500		µg/L	1	3/9/2023 12:08:00 AM
Chloromethane	ND	0.500		µg/L	1	3/9/2023 12:08:00 AM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	3/9/2023 12:08:00 AM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	3/9/2023 12:08:00 AM
Dibromomethane	ND	0.500		µg/L	1	3/9/2023 12:08:00 AM
Dichlorodifluoromethane	ND	0.500		µg/L	1	3/9/2023 12:08:00 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#: 23030475

Date Reported: 3/17/2023

**CLIENT:** OhioEPA-DDAGW **Collection Date:** 3/7/2023 11:20:00 AM  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030475-004 **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: ZDA	
<b>VOC-GC/MS (524.2)</b>						
Ethylbenzene	ND	0.500		µg/L	1	3/9/2023 12:08:00 AM
Hexachloro-1,3-butadiene	ND	0.500		µg/L	1	3/9/2023 12:08:00 AM
Isopropylbenzene	ND	0.500		µg/L	1	3/9/2023 12:08:00 AM
m,p-Xylene	ND	0.500		µg/L	1	3/9/2023 12:08:00 AM
Methylene chloride	ND	0.500		µg/L	1	3/9/2023 12:08:00 AM
MTBE	ND	0.500		µg/L	1	3/9/2023 12:08:00 AM
n-Butylbenzene	ND	0.500		µg/L	1	3/9/2023 12:08:00 AM
n-Propylbenzene	ND	0.500		µg/L	1	3/9/2023 12:08:00 AM
o-Xylene	ND	0.500		µg/L	1	3/9/2023 12:08:00 AM
p-Isopropyltoluene	ND	0.500		µg/L	1	3/9/2023 12:08:00 AM
sec-Butylbenzene	ND	0.500		µg/L	1	3/9/2023 12:08:00 AM
Styrene	ND	0.500		µg/L	1	3/9/2023 12:08:00 AM
Tert-amyl methyl ether	ND	0.500		µg/L	1	3/9/2023 12:08:00 AM
Tert-butyl Alcohol	ND	5.00		µg/L	1	3/9/2023 12:08:00 AM
tert-Butylbenzene	ND	0.500		µg/L	1	3/9/2023 12:08:00 AM
Tetrachloroethene	ND	0.500		µg/L	1	3/9/2023 12:08:00 AM
Toluene	ND	0.500		µg/L	1	3/9/2023 12:08:00 AM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	3/9/2023 12:08:00 AM
trans-1,3-Dichloropropene	ND	0.500		µg/L	1	3/9/2023 12:08:00 AM
Trichloroethene	ND	0.500		µg/L	1	3/9/2023 12:08:00 AM
Trichlorofluoromethane	ND	0.500		µg/L	1	3/9/2023 12:08:00 AM
Vinyl chloride	ND	0.500		µg/L	1	3/9/2023 12:08:00 AM
Xylenes, Total	ND	0.500		µg/L	1	3/9/2023 12:08:00 AM
Surr: 1,2-Dichlorobenzene-d4	83.6	70 - 130		%Rec	1	3/9/2023 12:08:00 AM
Surr: 4-Bromofluorobenzene	81.4	70 - 130		%Rec	1	3/9/2023 12:08:00 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	3/8/2023 5:50:00 PM
1,3-Butadiene	ND	5.00		µg/L	1	3/8/2023 5:50:00 PM
1,4-Dioxane	ND	25.0		µg/L	1	3/8/2023 5:50:00 PM
2,2-Dichloropropane	ND	5.00		µg/L	1	3/8/2023 5:50:00 PM
2-Butanone	ND	25.0		µg/L	1	3/8/2023 5:50:00 PM
2-Nitropropane	ND	50.0		µg/L	1	3/8/2023 5:50:00 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#: 23030475

Date Reported: 3/17/2023

**CLIENT:** OhioEPA-DDAGW **Collection Date:** 3/7/2023 11:20:00 AM  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030475-004 **Matrix:** DRINKING WATER  
**Client Sample ID:** PW-204 Harding 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>						
Acrylonitrile (2-propenenitrile)	ND	30.0		µg/L	1	3/8/2023 5:50:00 PM
Allyl chloride	ND	5.00		µg/L	1	3/8/2023 5:50:00 PM
Carbon disulfide	ND	5.00		µg/L	1	3/8/2023 5:50:00 PM
Chloroprene	ND	5.00		µg/L	1	3/8/2023 5:50:00 PM
Cyclohexanone	ND	5.00		µg/L	1	3/8/2023 5:50:00 PM
Ethyl Ether	ND	10.0		µg/L	1	3/8/2023 5:50:00 PM
Epichlorohydrin	ND	20.0		µg/L	1	3/8/2023 5:50:00 PM
ETBE	ND	5.00		µg/L	1	3/8/2023 5:50:00 PM
Ethyl acrylate	ND	5.00		µg/L	1	3/8/2023 5:50:00 PM
Ethyl methacrylate	ND	5.00		µg/L	1	3/8/2023 5:50:00 PM
Hexachloroethane	ND	5.00		µg/L	1	3/8/2023 5:50:00 PM
Diisopropyl ether (DIPE)	ND	5.00		µg/L	1	3/8/2023 5:50:00 PM
Methacrylonitrile	ND	5.00		µg/L	1	3/8/2023 5:50:00 PM
Methyl acrylate	ND	5.00		µg/L	1	3/8/2023 5:50:00 PM
Methyl methacrylate	ND	5.00		µg/L	1	3/8/2023 5:50:00 PM
Propionitrile	ND	5.00		µg/L	1	3/8/2023 5:50:00 PM
trans-1,4-Dichloro-2-butene	ND	5.00		µg/L	1	3/8/2023 5:50:00 PM
Vinyl acetate	ND	5.00		µg/L	1	3/8/2023 5:50:00 PM
1,2,3-Trimethylbenzene	ND	5.00	QC+	µg/L	1	3/8/2023 5:50:00 PM
Surr: 4-Bromofluorobenzene	97.8	70 - 130		%Rec	1	3/8/2023 5:50:00 PM
Surr: Dibromofluoromethane	105	70 - 130		%Rec	1	3/8/2023 5:50:00 PM
Surr: Toluene-d8	99.9	70 - 130		%Rec	1	3/8/2023 5:50:00 PM

<b>VOC TENTATIVELY IDENTIFIED COMPOUNDS (TICS)</b>				<b>SW8260</b>	Analyst: ZDA	
TIC: 1-Chlorobutane	ND		J	µg/L	1	3/8/2023 5:50:00 PM
TIC: 1-Methylnaphthalene	ND		J	µg/L	1	3/8/2023 5:50:00 PM
TIC: 2-Butyloxyethyl acetate	ND		J	µg/L	1	3/8/2023 5:50:00 PM
TIC: 2-Ethylhexyl acrylate	ND		J	µg/L	1	3/8/2023 5:50:00 PM
TIC: Benzyl chloride	ND		J	µg/L	1	3/8/2023 5:50:00 PM
TIC: Bromoethane	ND		J	µg/L	1	3/8/2023 5:50:00 PM
TIC: Chloroacetonitrile	ND		J	µg/L	1	3/8/2023 5:50:00 PM
TIC: n-Butyl acrylate	ND		J	µg/L	1	3/8/2023 5:50:00 PM
TIC: Pentachloroethane	ND		J	µg/L	1	3/8/2023 5:50:00 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#: 23030475

Date Reported: 3/17/2023

**CLIENT:** OhioEPA-DDAGW **Collection Date:** 3/7/2023 11:53:00 AM  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030475-005 **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: JDB	
Diethylene glycol	ND	5000		µg/L	1	3/8/2023 3:42:00 PM
Ethylene glycol	ND	5000		µg/L	1	3/8/2023 3:42:00 PM
Propylene glycol	ND	5000		µg/L	1	3/8/2023 3:42:00 PM
Triethylene glycol	ND	5000		µg/L	1	3/8/2023 3:42:00 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	3/15/2023 5:53:00 AM
Ethylene dibromide	ND	0.0200		µg/L	1	3/15/2023 5:53:00 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	0.190		µg/L	1	3/16/2023 6:14:00 AM
Acenaphthylene	ND	0.0952		µg/L	1	3/16/2023 6:14:00 AM
Anthracene	ND	0.0952		µg/L	1	3/16/2023 6:14:00 AM
Benzo(a)anthracene	ND	0.0952		µg/L	1	3/16/2023 6:14:00 AM
Benzo(a)pyrene	ND	0.0952	QL-	µg/L	1	3/16/2023 6:14:00 AM
Benzo(b)fluoranthene	ND	0.0952	QL-	µg/L	1	3/16/2023 6:14:00 AM
Benzo(g,h,i)perylene	ND	0.0952	QL-	µg/L	1	3/16/2023 6:14:00 AM
Benzo(k)fluoranthene	ND	0.0952		µg/L	1	3/16/2023 6:14:00 AM
Bis(2-ethylhexyl) phthalate	0.219	0.190	QL-	µg/L	1	3/16/2023 6:14:00 AM
Butyl benzyl phthalate	ND	0.190		µg/L	1	3/16/2023 6:14:00 AM
Chrysene	ND	0.0952		µg/L	1	3/16/2023 6:14:00 AM
Dibenz(a,h)anthracene	ND	0.0952	QL-	µg/L	1	3/16/2023 6:14:00 AM
Diethyl phthalate	3.45	0.0952		µg/L	1	3/16/2023 6:14:00 AM
Dimethyl phthalate	ND	0.190		µg/L	1	3/16/2023 6:14:00 AM
Di-n-butyl phthalate	0.695	0.190		µg/L	1	3/16/2023 6:14:00 AM
Fluorene	ND	0.0952		µg/L	1	3/16/2023 6:14:00 AM
Hexachlorobenzene	ND	0.0952		µg/L	1	3/16/2023 6:14:00 AM
Hexachlorocyclopentadiene	ND	0.0952		µg/L	1	3/16/2023 6:14:00 AM
Indeno(1,2,3-cd)pyrene	ND	0.952	QL-	µg/L	1	3/16/2023 6:14:00 AM
Isophorone	ND	0.190	QL-	µg/L	1	3/16/2023 6:14:00 AM
Phenanthrene	ND	0.0952		µg/L	1	3/16/2023 6:14:00 AM
Pyrene	ND	0.0952		µg/L	1	3/16/2023 6:14:00 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#: 23030475

Date Reported: 3/17/2023

**CLIENT:** OhioEPA-DDAGW  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030475-005  
**Client Sample ID:** PW-205 Zuch Well

**Collection Date:** 3/7/2023 11:53:00 AM

**Matrix:** DRINKING WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DRINKING WATER ORGANIC COMPOUNDS (EPA 525)</b>					<b>E525</b>	
<b>SYNTHETIC ORGANIC COMPOUNDS BY GC/MS (EPA 525.3)</b>					<b>525</b>	Analyst: <b>CSS</b>
Surr: 1,3-Dimethyl-2-nitrobenz...	71.6	70 - 130	m	%Rec	1	3/16/2023 6:14:00 AM
Surr: Benzo(a)pyrene-d12	92.4	70 - 130		%Rec	1	3/16/2023 6:14:00 AM
Surr: Triphenyl phosphate	103	70 - 130		%Rec	1	3/16/2023 6:14:00 AM
<b>SVOC BY SW8270E</b>					<b>SW8270</b>	
<b>SVOC BY 8270E</b>					<b>SW3510C</b>	Analyst: <b>JAP</b>
Benzoic acid	ND	15.2		µg/L	1	3/12/2023 8:18:00 AM
2,6-Dinitrotoluene	ND	0.952		µg/L	1	3/12/2023 8:18:00 AM
2-Butoxyethanol	ND	28.6	Z	µg/L	1	3/15/2023 11:02:00 PM
2-Methylnaphthalene	ND	0.952	QC+	µg/L	1	3/12/2023 8:18:00 AM
3,3'-Dichlorobenzidine	ND	9.52		µg/L	1	3/12/2023 8:18:00 AM
4-Nitrophenol	ND	4.76		µg/L	1	3/12/2023 8:18:00 AM
Acenaphthene	ND	0.952		µg/L	1	3/12/2023 8:18:00 AM
Bis(2-chloroethyl) ether	ND	0.952		µg/L	1	3/12/2023 8:18:00 AM
Di-n-octyl phthalate	ND	4.76		µg/L	1	3/12/2023 8:18:00 AM
Fluoranthene	ND	0.952		µg/L	1	3/12/2023 8:18:00 AM
Naphthalene	ND	0.952		µg/L	1	3/12/2023 8:18:00 AM
Phenol	ND	0.952		µg/L	1	3/12/2023 8:18:00 AM
3&4-Methylphenol	ND	0.952		µg/L	1	3/12/2023 8:18:00 AM
Surr: 2-Fluorophenol	38.6	20 - 130		%Rec	1	3/12/2023 8:18:00 AM
Surr: Phenol-d6	26.4	20 - 130		%Rec	1	3/12/2023 8:18:00 AM
Surr: Nitrobenzene-d5	76.0	27.4 - 130		%Rec	1	3/12/2023 8:18:00 AM
Surr: 2,4,6-Tribromophenol	73.9	54.3 - 133		%Rec	1	3/12/2023 8:18:00 AM
Surr: 2-Fluorobiphenyl	83.8	25.6 - 130		%Rec	1	3/12/2023 8:18:00 AM
Surr: p-Terphenyl-d14	125	20 - 181		%Rec	1	3/12/2023 8:18:00 AM
<b>DRINKING WATER VOCs (EPA 524.2)</b>					<b>E524.2</b>	
<b>VOC-GC/MS (524.2)</b>						Analyst: <b>ZDA</b>
1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	3/9/2023 12:36:00 AM
1,1,1-Trichloroethane	ND	0.500		µg/L	1	3/9/2023 12:36:00 AM
1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	3/9/2023 12:36:00 AM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	3/9/2023 12:36:00 AM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/9/2023 12:36:00 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	3/9/2023 12:36:00 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		

Original



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# Analytical Report

(consolidated)

WO#: 23030475

Date Reported: 3/17/2023

**CLIENT:** OhioEPA-DDAGW  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030475-005  
**Client Sample ID:** PW-205 Zuch Well

**Collection Date:** 3/7/2023 11:53:00 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: ZDA	
<b>VOC-GC/MS (524.2)</b>						
1,1-Dichloropropene	ND	0.500		µg/L	1	3/9/2023 12:36:00 AM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	3/9/2023 12:36:00 AM
1,2,3-Trichloropropane	ND	0.500		µg/L	1	3/9/2023 12:36:00 AM
1,2,4-Trichlorobenzene	ND	0.500		µg/L	1	3/9/2023 12:36:00 AM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	3/9/2023 12:36:00 AM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	3/9/2023 12:36:00 AM
1,2-Dichloroethane	ND	0.500		µg/L	1	3/9/2023 12:36:00 AM
1,2-Dichloropropane	ND	0.500		µg/L	1	3/9/2023 12:36:00 AM
1,3,5-Trimethylbenzene	ND	0.500		µg/L	1	3/9/2023 12:36:00 AM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	3/9/2023 12:36:00 AM
1,3-Dichloropropane	ND	0.500		µg/L	1	3/9/2023 12:36:00 AM
1,3-Dichloropropene, Total	ND	1.00		µg/L	1	3/9/2023 12:36:00 AM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	3/9/2023 12:36:00 AM
2-Chlorotoluene	ND	0.500		µg/L	1	3/9/2023 12:36:00 AM
2-Hexanone	ND	5.00		µg/L	1	3/9/2023 12:36:00 AM
4-Chlorotoluene	ND	0.500		µg/L	1	3/9/2023 12:36:00 AM
4-Methyl-2-pentanone	ND	5.00		µg/L	1	3/9/2023 12:36:00 AM
Acetone	ND	5.00		µg/L	1	3/9/2023 12:36:00 AM
Benzene	ND	0.500		µg/L	1	3/9/2023 12:36:00 AM
Bromobenzene	ND	0.500		µg/L	1	3/9/2023 12:36:00 AM
Bromodichloromethane	ND	0.500		µg/L	1	3/9/2023 12:36:00 AM
Bromoform	ND	0.500		µg/L	1	3/9/2023 12:36:00 AM
Bromomethane	ND	1.00		µg/L	1	3/9/2023 12:36:00 AM
Carbon tetrachloride	ND	0.500		µg/L	1	3/9/2023 12:36:00 AM
Chlorobenzene	ND	0.500		µg/L	1	3/9/2023 12:36:00 AM
Chlorobromomethane	ND	0.500		µg/L	1	3/9/2023 12:36:00 AM
Chlorodibromomethane	ND	0.500		µg/L	1	3/9/2023 12:36:00 AM
Chloroethane	ND	0.500		µg/L	1	3/9/2023 12:36:00 AM
Chloroform	ND	0.500		µg/L	1	3/9/2023 12:36:00 AM
Chloromethane	ND	0.500		µg/L	1	3/9/2023 12:36:00 AM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	3/9/2023 12:36:00 AM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	3/9/2023 12:36:00 AM
Dibromomethane	ND	0.500		µg/L	1	3/9/2023 12:36:00 AM
Dichlorodifluoromethane	ND	0.500		µg/L	1	3/9/2023 12:36:00 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#: 23030475

Date Reported: 3/17/2023

**CLIENT:** OhioEPA-DDAGW  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030475-005  
**Client Sample ID:** PW-205 Zuch Well

**Collection Date:** 3/7/2023 11:53:00 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: ZDA	
<b>VOC-GC/MS (524.2)</b>						
Ethylbenzene	ND	0.500		µg/L	1	3/9/2023 12:36:00 AM
Hexachloro-1,3-butadiene	ND	0.500		µg/L	1	3/9/2023 12:36:00 AM
Isopropylbenzene	ND	0.500		µg/L	1	3/9/2023 12:36:00 AM
m,p-Xylene	ND	0.500		µg/L	1	3/9/2023 12:36:00 AM
Methylene chloride	ND	0.500		µg/L	1	3/9/2023 12:36:00 AM
MTBE	ND	0.500		µg/L	1	3/9/2023 12:36:00 AM
n-Butylbenzene	ND	0.500		µg/L	1	3/9/2023 12:36:00 AM
n-Propylbenzene	ND	0.500		µg/L	1	3/9/2023 12:36:00 AM
o-Xylene	ND	0.500		µg/L	1	3/9/2023 12:36:00 AM
p-Isopropyltoluene	ND	0.500		µg/L	1	3/9/2023 12:36:00 AM
sec-Butylbenzene	ND	0.500		µg/L	1	3/9/2023 12:36:00 AM
Styrene	ND	0.500		µg/L	1	3/9/2023 12:36:00 AM
Tert-amyl methyl ether	ND	0.500		µg/L	1	3/9/2023 12:36:00 AM
Tert-butyl Alcohol	ND	5.00		µg/L	1	3/9/2023 12:36:00 AM
tert-Butylbenzene	ND	0.500		µg/L	1	3/9/2023 12:36:00 AM
Tetrachloroethene	ND	0.500		µg/L	1	3/9/2023 12:36:00 AM
Toluene	ND	0.500		µg/L	1	3/9/2023 12:36:00 AM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	3/9/2023 12:36:00 AM
trans-1,3-Dichloropropene	ND	0.500		µg/L	1	3/9/2023 12:36:00 AM
Trichloroethene	ND	0.500		µg/L	1	3/9/2023 12:36:00 AM
Trichlorofluoromethane	ND	0.500		µg/L	1	3/9/2023 12:36:00 AM
Vinyl chloride	ND	0.500		µg/L	1	3/9/2023 12:36:00 AM
Xylenes, Total	ND	0.500		µg/L	1	3/9/2023 12:36:00 AM
Surr: 1,2-Dichlorobenzene-d4	85.7	70 - 130		%Rec	1	3/9/2023 12:36:00 AM
Surr: 4-Bromofluorobenzene	82.8	70 - 130		%Rec	1	3/9/2023 12:36:00 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	3/8/2023 6:14:00 PM
1,3-Butadiene	ND	5.00		µg/L	1	3/8/2023 6:14:00 PM
1,4-Dioxane	ND	25.0		µg/L	1	3/8/2023 6:14:00 PM
2,2-Dichloropropane	ND	5.00		µg/L	1	3/8/2023 6:14:00 PM
2-Butanone	ND	25.0		µg/L	1	3/8/2023 6:14:00 PM
2-Nitropropane	ND	50.0		µg/L	1	3/8/2023 6:14:00 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#: 23030475

Date Reported: 3/17/2023

**CLIENT:** OhioEPA-DDAGW **Collection Date:** 3/7/2023 11:53:00 AM  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030475-005 **Matrix:** DRINKING WATER  
**Client Sample ID:** PW-205 Zuch 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>						
Acrylonitrile (2-propenenitrile)	ND	30.0		µg/L	1	3/8/2023 6:14:00 PM
Allyl chloride	ND	5.00		µg/L	1	3/8/2023 6:14:00 PM
Carbon disulfide	ND	5.00		µg/L	1	3/8/2023 6:14:00 PM
Chloroprene	ND	5.00		µg/L	1	3/8/2023 6:14:00 PM
Cyclohexanone	ND	5.00		µg/L	1	3/8/2023 6:14:00 PM
Ethyl Ether	ND	10.0		µg/L	1	3/8/2023 6:14:00 PM
Epichlorohydrin	ND	20.0		µg/L	1	3/8/2023 6:14:00 PM
ETBE	ND	5.00		µg/L	1	3/8/2023 6:14:00 PM
Ethyl acrylate	ND	5.00		µg/L	1	3/8/2023 6:14:00 PM
Ethyl methacrylate	ND	5.00		µg/L	1	3/8/2023 6:14:00 PM
Hexachloroethane	ND	5.00		µg/L	1	3/8/2023 6:14:00 PM
Diisopropyl ether (DIPE)	ND	5.00		µg/L	1	3/8/2023 6:14:00 PM
Methacrylonitrile	ND	5.00		µg/L	1	3/8/2023 6:14:00 PM
Methyl acrylate	ND	5.00		µg/L	1	3/8/2023 6:14:00 PM
Methyl methacrylate	ND	5.00		µg/L	1	3/8/2023 6:14:00 PM
Propionitrile	ND	5.00		µg/L	1	3/8/2023 6:14:00 PM
trans-1,4-Dichloro-2-butene	ND	5.00		µg/L	1	3/8/2023 6:14:00 PM
Vinyl acetate	ND	5.00		µg/L	1	3/8/2023 6:14:00 PM
1,2,3-Trimethylbenzene	ND	5.00	QC+	µg/L	1	3/8/2023 6:14:00 PM
Surr: 4-Bromofluorobenzene	97.4	70 - 130		%Rec	1	3/8/2023 6:14:00 PM
Surr: Dibromofluoromethane	105	70 - 130		%Rec	1	3/8/2023 6:14:00 PM
Surr: Toluene-d8	99.4	70 - 130		%Rec	1	3/8/2023 6:14:00 PM

<b>VOC TENTATIVELY IDENTIFIED COMPOUNDS (TICS)</b>				<b>SW8260</b>	Analyst: ZDA	
TIC: 1-Chlorobutane	ND		J	µg/L	1	3/8/2023 6:14:00 PM
TIC: 1-Methylnaphthalene	ND		J	µg/L	1	3/8/2023 6:14:00 PM
TIC: 2-Butyloxyethyl acetate	ND		J	µg/L	1	3/8/2023 6:14:00 PM
TIC: 2-Ethylhexyl acrylate	ND		J	µg/L	1	3/8/2023 6:14:00 PM
TIC: Benzyl chloride	ND		J	µg/L	1	3/8/2023 6:14:00 PM
TIC: Bromoethane	ND		J	µg/L	1	3/8/2023 6:14:00 PM
TIC: Chloroacetonitrile	ND		J	µg/L	1	3/8/2023 6:14:00 PM
TIC: n-Butyl acrylate	ND		J	µg/L	1	3/8/2023 6:14:00 PM
TIC: Pentachloroethane	ND		J	µg/L	1	3/8/2023 6:14:00 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



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#: 23030475

Date Reported: 3/17/2023

**CLIENT:** OhioEPA-DDAGW **Collection Date:** 3/7/2023 12:25:00 PM  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030475-006 **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	3/8/2023 4:20:00 PM
Ethylene glycol	ND	5000		µg/L	1	3/8/2023 4:20:00 PM
Propylene glycol	ND	5000		µg/L	1	3/8/2023 4:20:00 PM
Triethylene glycol	ND	5000		µg/L	1	3/8/2023 4:20:00 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	3/15/2023 6:13:00 AM
Ethylene dibromide	ND	0.0200		µg/L	1	3/15/2023 6:13:00 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	0.190		µg/L	1	3/16/2023 7:00:00 AM
Acenaphthylene	ND	0.0952		µg/L	1	3/16/2023 7:00:00 AM
Anthracene	ND	0.0952		µg/L	1	3/16/2023 7:00:00 AM
Benzo(a)anthracene	ND	0.0952		µg/L	1	3/16/2023 7:00:00 AM
Benzo(a)pyrene	ND	0.0952	QL-	µg/L	1	3/16/2023 7:00:00 AM
Benzo(b)fluoranthene	ND	0.0952	QL-	µg/L	1	3/16/2023 7:00:00 AM
Benzo(g,h,i)perylene	ND	0.0952	QL-	µg/L	1	3/16/2023 7:00:00 AM
Benzo(k)fluoranthene	ND	0.0952		µg/L	1	3/16/2023 7:00:00 AM
Bis(2-ethylhexyl) phthalate	ND	0.190	QL-	µg/L	1	3/16/2023 7:00:00 AM
Butyl benzyl phthalate	ND	0.190		µg/L	1	3/16/2023 7:00:00 AM
Chrysene	ND	0.0952		µg/L	1	3/16/2023 7:00:00 AM
Dibenz(a,h)anthracene	ND	0.0952	QL-	µg/L	1	3/16/2023 7:00:00 AM
Diethyl phthalate	ND	0.0952		µg/L	1	3/16/2023 7:00:00 AM
Dimethyl phthalate	ND	0.190		µg/L	1	3/16/2023 7:00:00 AM
Di-n-butyl phthalate	ND	0.190		µg/L	1	3/16/2023 7:00:00 AM
Fluorene	ND	0.0952		µg/L	1	3/16/2023 7:00:00 AM
Hexachlorobenzene	ND	0.0952		µg/L	1	3/16/2023 7:00:00 AM
Hexachlorocyclopentadiene	ND	0.0952		µg/L	1	3/16/2023 7:00:00 AM
Indeno(1,2,3-cd)pyrene	ND	0.952	QL-	µg/L	1	3/16/2023 7:00:00 AM
Isophorone	ND	0.190	QL-	µg/L	1	3/16/2023 7:00:00 AM
Phenanthrene	ND	0.0952		µg/L	1	3/16/2023 7:00:00 AM
Pyrene	ND	0.0952		µg/L	1	3/16/2023 7:00:00 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#: 23030475

Date Reported: 3/17/2023

**CLIENT:** OhioEPA-DDAGW  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030475-006  
**Client Sample ID:** PW-207 Entry Point

**Collection Date:** 3/7/2023 12:25:00 PM

**Matrix:** DRINKING WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DRINKING WATER ORGANIC COMPOUNDS (EPA 525)</b>					<b>E525</b>	
<b>SYNTHETIC ORGANIC COMPOUNDS BY GC/MS (EPA 525.3)</b>					<b>525</b>	Analyst: <b>CSS</b>
Surr: 1,3-Dimethyl-2-nitrobenz...	78.8	70 - 130		%Rec	1	3/16/2023 7:00:00 AM
Surr: Benzo(a)pyrene-d12	84.4	70 - 130		%Rec	1	3/16/2023 7:00:00 AM
Surr: Triphenyl phosphate	111	70 - 130		%Rec	1	3/16/2023 7:00:00 AM
<b>SVOC BY SW8270E</b>					<b>SW8270</b>	
<b>SVOC BY 8270E</b>					<b>SW3510C</b>	Analyst: <b>JAP</b>
Benzoic acid	ND	15.5		µg/L	1	3/12/2023 8:49:00 AM
2,6-Dinitrotoluene	ND	0.971		µg/L	1	3/12/2023 8:49:00 AM
2-Butoxyethanol	ND	29.1	Z	µg/L	1	3/15/2023 11:21:00 PM
2-Methylnaphthalene	ND	0.971	QC+	µg/L	1	3/12/2023 8:49:00 AM
3,3'-Dichlorobenzidine	ND	9.71		µg/L	1	3/12/2023 8:49:00 AM
4-Nitrophenol	ND	4.85		µg/L	1	3/12/2023 8:49:00 AM
Acenaphthene	ND	0.971		µg/L	1	3/12/2023 8:49:00 AM
Bis(2-chloroethyl) ether	ND	0.971		µg/L	1	3/12/2023 8:49:00 AM
Di-n-octyl phthalate	ND	4.85		µg/L	1	3/12/2023 8:49:00 AM
Fluoranthene	ND	0.971		µg/L	1	3/12/2023 8:49:00 AM
Naphthalene	ND	0.971		µg/L	1	3/12/2023 8:49:00 AM
Phenol	ND	0.971		µg/L	1	3/12/2023 8:49:00 AM
3&4-Methylphenol	ND	0.971		µg/L	1	3/12/2023 8:49:00 AM
Surr: 2-Fluorophenol	26.9	20 - 130		%Rec	1	3/12/2023 8:49:00 AM
Surr: Phenol-d6	0.360	20 - 130	S	%Rec	1	3/12/2023 8:49:00 AM
Surr: Nitrobenzene-d5	66.4	27.4 - 130		%Rec	1	3/12/2023 8:49:00 AM
Surr: 2,4,6-Tribromophenol	57.4	54.3 - 133		%Rec	1	3/12/2023 8:49:00 AM
Surr: 2-Fluorobiphenyl	76.5	25.6 - 130		%Rec	1	3/12/2023 8:49:00 AM
Surr: p-Terphenyl-d14	120	20 - 181		%Rec	1	3/12/2023 8:49:00 AM
<b>DRINKING WATER VOCs (EPA 524.2)</b>					<b>E524.2</b>	
<b>VOC-GC/MS (524.2)</b>						Analyst: <b>ZDA</b>
1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	3/9/2023 1:05:00 AM
1,1,1-Trichloroethane	ND	0.500		µg/L	1	3/9/2023 1:05:00 AM
1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	3/9/2023 1:05:00 AM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	3/9/2023 1:05:00 AM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/9/2023 1:05:00 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	3/9/2023 1:05:00 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#: 23030475

Date Reported: 3/17/2023

**CLIENT:** OhioEPA-DDAGW  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030475-006  
**Client Sample ID:** PW-207 Entry Point

**Collection Date:** 3/7/2023 12:25:00 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: ZDA	
<b>VOC-GC/MS (524.2)</b>						
1,1-Dichloropropene	ND	0.500		µg/L	1	3/9/2023 1:05:00 AM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	3/9/2023 1:05:00 AM
1,2,3-Trichloropropane	ND	0.500		µg/L	1	3/9/2023 1:05:00 AM
1,2,4-Trichlorobenzene	ND	0.500		µg/L	1	3/9/2023 1:05:00 AM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	3/9/2023 1:05:00 AM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	3/9/2023 1:05:00 AM
1,2-Dichloroethane	ND	0.500		µg/L	1	3/9/2023 1:05:00 AM
1,2-Dichloropropane	ND	0.500		µg/L	1	3/9/2023 1:05:00 AM
1,3,5-Trimethylbenzene	ND	0.500		µg/L	1	3/9/2023 1:05:00 AM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	3/9/2023 1:05:00 AM
1,3-Dichloropropane	ND	0.500		µg/L	1	3/9/2023 1:05:00 AM
1,3-Dichloropropene, Total	ND	1.00		µg/L	1	3/9/2023 1:05:00 AM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	3/9/2023 1:05:00 AM
2-Chlorotoluene	ND	0.500		µg/L	1	3/9/2023 1:05:00 AM
2-Hexanone	ND	5.00		µg/L	1	3/9/2023 1:05:00 AM
4-Chlorotoluene	ND	0.500		µg/L	1	3/9/2023 1:05:00 AM
4-Methyl-2-pentanone	ND	5.00		µg/L	1	3/9/2023 1:05:00 AM
Acetone	ND	5.00		µg/L	1	3/9/2023 1:05:00 AM
Benzene	ND	0.500		µg/L	1	3/9/2023 1:05:00 AM
Bromobenzene	ND	0.500		µg/L	1	3/9/2023 1:05:00 AM
Bromodichloromethane	0.577	0.500		µg/L	1	3/9/2023 1:05:00 AM
Bromoform	ND	0.500		µg/L	1	3/9/2023 1:05:00 AM
Bromomethane	ND	1.00		µg/L	1	3/9/2023 1:05:00 AM
Carbon tetrachloride	ND	0.500		µg/L	1	3/9/2023 1:05:00 AM
Chlorobenzene	ND	0.500		µg/L	1	3/9/2023 1:05:00 AM
Chlorobromomethane	ND	0.500		µg/L	1	3/9/2023 1:05:00 AM
Chlorodibromomethane	0.422	0.500	J	µg/L	1	3/9/2023 1:05:00 AM
Chloroethane	ND	0.500		µg/L	1	3/9/2023 1:05:00 AM
Chloroform	0.655	0.500		µg/L	1	3/9/2023 1:05:00 AM
Chloromethane	ND	0.500		µg/L	1	3/9/2023 1:05:00 AM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	3/9/2023 1:05:00 AM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	3/9/2023 1:05:00 AM
Dibromomethane	ND	0.500		µg/L	1	3/9/2023 1:05:00 AM
Dichlorodifluoromethane	ND	0.500		µg/L	1	3/9/2023 1:05:00 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#: 23030475

Date Reported: 3/17/2023

**CLIENT:** OhioEPA-DDAGW  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030475-006  
**Client Sample ID:** PW-207 Entry Point

**Collection Date:** 3/7/2023 12:25:00 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: ZDA	
<b>VOC-GC/MS (524.2)</b>						
Ethylbenzene	ND	0.500		µg/L	1	3/9/2023 1:05:00 AM
Hexachloro-1,3-butadiene	ND	0.500		µg/L	1	3/9/2023 1:05:00 AM
Isopropylbenzene	ND	0.500		µg/L	1	3/9/2023 1:05:00 AM
m,p-Xylene	ND	0.500		µg/L	1	3/9/2023 1:05:00 AM
Methylene chloride	ND	0.500		µg/L	1	3/9/2023 1:05:00 AM
MTBE	ND	0.500		µg/L	1	3/9/2023 1:05:00 AM
n-Butylbenzene	ND	0.500		µg/L	1	3/9/2023 1:05:00 AM
n-Propylbenzene	ND	0.500		µg/L	1	3/9/2023 1:05:00 AM
o-Xylene	ND	0.500		µg/L	1	3/9/2023 1:05:00 AM
p-Isopropyltoluene	ND	0.500		µg/L	1	3/9/2023 1:05:00 AM
sec-Butylbenzene	ND	0.500		µg/L	1	3/9/2023 1:05:00 AM
Styrene	ND	0.500		µg/L	1	3/9/2023 1:05:00 AM
Tert-amyl methyl ether	ND	0.500		µg/L	1	3/9/2023 1:05:00 AM
Tert-butyl Alcohol	ND	5.00		µg/L	1	3/9/2023 1:05:00 AM
tert-Butylbenzene	ND	0.500		µg/L	1	3/9/2023 1:05:00 AM
Tetrachloroethene	ND	0.500		µg/L	1	3/9/2023 1:05:00 AM
Toluene	ND	0.500		µg/L	1	3/9/2023 1:05:00 AM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	3/9/2023 1:05:00 AM
trans-1,3-Dichloropropene	ND	0.500		µg/L	1	3/9/2023 1:05:00 AM
Trichloroethene	ND	0.500		µg/L	1	3/9/2023 1:05:00 AM
Trichlorofluoromethane	ND	0.500		µg/L	1	3/9/2023 1:05:00 AM
Vinyl chloride	ND	0.500		µg/L	1	3/9/2023 1:05:00 AM
Xylenes, Total	ND	0.500		µg/L	1	3/9/2023 1:05:00 AM
Surr: 1,2-Dichlorobenzene-d4	83.4	70 - 130		%Rec	1	3/9/2023 1:05:00 AM
Surr: 4-Bromofluorobenzene	79.9	70 - 130		%Rec	1	3/9/2023 1:05:00 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	3/8/2023 6:37:00 PM
1,3-Butadiene	ND	5.00		µg/L	1	3/8/2023 6:37:00 PM
1,4-Dioxane	ND	25.0		µg/L	1	3/8/2023 6:37:00 PM
2,2-Dichloropropane	ND	5.00		µg/L	1	3/8/2023 6:37:00 PM
2-Butanone	ND	25.0		µg/L	1	3/8/2023 6:37:00 PM
2-Nitropropane	ND	50.0		µg/L	1	3/8/2023 6:37:00 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#: 23030475

Date Reported: 3/17/2023

**CLIENT:** OhioEPA-DDAGW **Collection Date:** 3/7/2023 12:25:00 PM  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030475-006 **Matrix:** DRINKING WATER  
**Client Sample ID:** PW-207 Entry Point

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>						
Acrylonitrile (2-propenenitrile)	ND	30.0		µg/L	1	3/8/2023 6:37:00 PM
Allyl chloride	ND	5.00		µg/L	1	3/8/2023 6:37:00 PM
Carbon disulfide	ND	5.00		µg/L	1	3/8/2023 6:37:00 PM
Chloroprene	ND	5.00		µg/L	1	3/8/2023 6:37:00 PM
Cyclohexanone	ND	5.00		µg/L	1	3/8/2023 6:37:00 PM
Ethyl Ether	ND	10.0		µg/L	1	3/8/2023 6:37:00 PM
Epichlorohydrin	ND	20.0		µg/L	1	3/8/2023 6:37:00 PM
ETBE	ND	5.00		µg/L	1	3/8/2023 6:37:00 PM
Ethyl acrylate	ND	5.00		µg/L	1	3/8/2023 6:37:00 PM
Ethyl methacrylate	ND	5.00		µg/L	1	3/8/2023 6:37:00 PM
Hexachloroethane	ND	5.00		µg/L	1	3/8/2023 6:37:00 PM
Diisopropyl ether (DIPE)	ND	5.00		µg/L	1	3/8/2023 6:37:00 PM
Methacrylonitrile	ND	5.00		µg/L	1	3/8/2023 6:37:00 PM
Methyl acrylate	ND	5.00		µg/L	1	3/8/2023 6:37:00 PM
Methyl methacrylate	ND	5.00		µg/L	1	3/8/2023 6:37:00 PM
Propionitrile	ND	5.00		µg/L	1	3/8/2023 6:37:00 PM
trans-1,4-Dichloro-2-butene	ND	5.00		µg/L	1	3/8/2023 6:37:00 PM
Vinyl acetate	ND	5.00		µg/L	1	3/8/2023 6:37:00 PM
1,2,3-Trimethylbenzene	ND	5.00	QC+	µg/L	1	3/8/2023 6:37:00 PM
Surr: 4-Bromofluorobenzene	97.0	70 - 130		%Rec	1	3/8/2023 6:37:00 PM
Surr: Dibromofluoromethane	102	70 - 130		%Rec	1	3/8/2023 6:37:00 PM
Surr: Toluene-d8	100	70 - 130		%Rec	1	3/8/2023 6:37:00 PM

<b>VOC TENTATIVELY IDENTIFIED COMPOUNDS (TICS)</b>				<b>SW8260</b>	Analyst: ZDA	
TIC: 1-Chlorobutane	ND		J	µg/L	1	3/8/2023 6:37:00 PM
TIC: 1-Methylnaphthalene	ND		J	µg/L	1	3/8/2023 6:37:00 PM
TIC: 2-Butyloxyethyl acetate	ND		J	µg/L	1	3/8/2023 6:37:00 PM
TIC: 2-Ethylhexyl acrylate	ND		J	µg/L	1	3/8/2023 6:37:00 PM
TIC: Benzyl chloride	ND		J	µg/L	1	3/8/2023 6:37:00 PM
TIC: Bromoethane	ND		J	µg/L	1	3/8/2023 6:37:00 PM
TIC: Chloroacetonitrile	ND		J	µg/L	1	3/8/2023 6:37:00 PM
TIC: n-Butyl acrylate	ND		J	µg/L	1	3/8/2023 6:37:00 PM
TIC: Pentachloroethane	ND		J	µg/L	1	3/8/2023 6:37:00 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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 TEL: (330) 253-8211 FAX: (330) 253-4489  
 Website: <http://www.settek.com>

# Analytical Report

(consolidated)

WO#: 23030475

Date Reported: 3/17/2023

**CLIENT:** OhioEPA-DDAGW

**Collection Date:** 3/7/2023 12:20:00 PM

**Project:** Ohio EPA PWS-EP

**Lab ID:** 23030475-007

**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	3/8/2023 4:57:00 PM
Ethylene glycol	ND	5000		µg/L	1	3/8/2023 4:57:00 PM
Propylene glycol	ND	5000		µg/L	1	3/8/2023 4:57:00 PM
Triethylene glycol	ND	5000		µg/L	1	3/8/2023 4:57:00 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	3/15/2023 6:33:00 AM
Ethylene dibromide	ND	0.0200		µg/L	1	3/15/2023 6:33:00 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	0.190		µg/L	1	3/16/2023 7:47:00 AM
Acenaphthylene	ND	0.0952		µg/L	1	3/16/2023 7:47:00 AM
Anthracene	ND	0.0952		µg/L	1	3/16/2023 7:47:00 AM
Benzo(a)anthracene	ND	0.0952		µg/L	1	3/16/2023 7:47:00 AM
Benzo(a)pyrene	ND	0.0952	QL-	µg/L	1	3/16/2023 7:47:00 AM
Benzo(b)fluoranthene	ND	0.0952	QL-	µg/L	1	3/16/2023 7:47:00 AM
Benzo(g,h,i)perylene	ND	0.0952	QL-	µg/L	1	3/16/2023 7:47:00 AM
Benzo(k)fluoranthene	ND	0.0952		µg/L	1	3/16/2023 7:47:00 AM
Bis(2-ethylhexyl) phthalate	ND	0.190	QL-	µg/L	1	3/16/2023 7:47:00 AM
Butyl benzyl phthalate	ND	0.190		µg/L	1	3/16/2023 7:47:00 AM
Chrysene	ND	0.0952		µg/L	1	3/16/2023 7:47:00 AM
Dibenz(a,h)anthracene	ND	0.0952	QL-	µg/L	1	3/16/2023 7:47:00 AM
Diethyl phthalate	0.200	0.0952		µg/L	1	3/16/2023 7:47:00 AM
Dimethyl phthalate	ND	0.190		µg/L	1	3/16/2023 7:47:00 AM
Di-n-butyl phthalate	ND	0.190		µg/L	1	3/16/2023 7:47:00 AM
Fluorene	ND	0.0952		µg/L	1	3/16/2023 7:47:00 AM
Hexachlorobenzene	ND	0.0952		µg/L	1	3/16/2023 7:47:00 AM
Hexachlorocyclopentadiene	ND	0.0952		µg/L	1	3/16/2023 7:47:00 AM
Indeno(1,2,3-cd)pyrene	ND	0.952	QL-	µg/L	1	3/16/2023 7:47:00 AM
Isophorone	ND	0.190	QL-	µg/L	1	3/16/2023 7:47:00 AM
Phenanthrene	ND	0.0952		µg/L	1	3/16/2023 7:47:00 AM
Pyrene	ND	0.0952		µg/L	1	3/16/2023 7:47:00 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		

Original



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# Analytical Report

(consolidated)

WO#: 23030475

Date Reported: 3/17/2023

**CLIENT:** OhioEPA-DDAGW **Collection Date:** 3/7/2023 12:20:00 PM  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030475-007 **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>SYNTHETIC ORGANIC COMPOUNDS BY GC/MS (EPA 525.3)</b>					<b>525</b>	Analyst: <b>CSS</b>
Surr: 1,3-Dimethyl-2-nitrobenz...	76.6	70 - 130		%Rec	1	3/16/2023 7:47:00 AM
Surr: Benzo(a)pyrene-d12	86.2	70 - 130		%Rec	1	3/16/2023 7:47:00 AM
Surr: Triphenyl phosphate	107	70 - 130		%Rec	1	3/16/2023 7:47:00 AM
<b>SVOC BY SW8270E</b>					<b>SW8270</b>	
<b>SVOC BY 8270E</b>					<b>SW3510C</b>	Analyst: <b>JAP</b>
Benzoic acid	ND	15.2		µg/L	1	3/12/2023 9:21:00 AM
2,6-Dinitrotoluene	ND	0.952		µg/L	1	3/12/2023 9:21:00 AM
2-Butoxyethanol	ND	28.6	Z	µg/L	1	3/15/2023 11:41:00 PM
2-Methylnaphthalene	ND	0.952	QC+	µg/L	1	3/12/2023 9:21:00 AM
3,3'-Dichlorobenzidine	ND	9.52		µg/L	1	3/12/2023 9:21:00 AM
4-Nitrophenol	ND	4.76		µg/L	1	3/12/2023 9:21:00 AM
Acenaphthene	ND	0.952		µg/L	1	3/12/2023 9:21:00 AM
Bis(2-chloroethyl) ether	ND	0.952		µg/L	1	3/12/2023 9:21:00 AM
Di-n-octyl phthalate	ND	4.76		µg/L	1	3/12/2023 9:21:00 AM
Fluoranthene	ND	0.952		µg/L	1	3/12/2023 9:21:00 AM
Naphthalene	ND	0.952		µg/L	1	3/12/2023 9:21:00 AM
Phenol	ND	0.952		µg/L	1	3/12/2023 9:21:00 AM
3&4-Methylphenol	ND	0.952		µg/L	1	3/12/2023 9:21:00 AM
Surr: 2-Fluorophenol	41.6	20 - 130		%Rec	1	3/12/2023 9:21:00 AM
Surr: Phenol-d6	27.2	20 - 130		%Rec	1	3/12/2023 9:21:00 AM
Surr: Nitrobenzene-d5	55.9	27.4 - 130		%Rec	1	3/12/2023 9:21:00 AM
Surr: 2,4,6-Tribromophenol	51.2	54.3 - 133	S	%Rec	1	3/12/2023 9:21:00 AM
Surr: 2-Fluorobiphenyl	115	25.6 - 130		%Rec	1	3/12/2023 9:21:00 AM
Surr: p-Terphenyl-d14	120	20 - 181		%Rec	1	3/12/2023 9:21:00 AM
<b>DRINKING WATER VOCs (EPA 524.2)</b>					<b>E524.2</b>	
<b>VOC-GC/MS (524.2)</b>						Analyst: <b>ZDA</b>
1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	3/9/2023 11:47:00 PM
1,1,1-Trichloroethane	ND	0.500		µg/L	1	3/9/2023 11:47:00 PM
1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	3/9/2023 11:47:00 PM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	3/9/2023 11:47:00 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/9/2023 11:47:00 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	3/9/2023 11:47:00 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#: 23030475

Date Reported: 3/17/2023

**CLIENT:** OhioEPA-DDAGW  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030475-007  
**Client Sample ID:** PW-201FB Field Blank

**Collection Date:** 3/7/2023 12:20:00 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: ZDA	
<b>VOC-GC/MS (524.2)</b>						
1,1-Dichloropropene	ND	0.500		µg/L	1	3/9/2023 11:47:00 PM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	3/9/2023 11:47:00 PM
1,2,3-Trichloropropane	ND	0.500		µg/L	1	3/9/2023 11:47:00 PM
1,2,4-Trichlorobenzene	ND	0.500		µg/L	1	3/9/2023 11:47:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	3/9/2023 11:47:00 PM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	3/9/2023 11:47:00 PM
1,2-Dichloroethane	ND	0.500		µg/L	1	3/9/2023 11:47:00 PM
1,2-Dichloropropane	ND	0.500		µg/L	1	3/9/2023 11:47:00 PM
1,3,5-Trimethylbenzene	ND	0.500	MB+	µg/L	1	3/9/2023 11:47:00 PM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	3/9/2023 11:47:00 PM
1,3-Dichloropropane	ND	0.500		µg/L	1	3/9/2023 11:47:00 PM
1,3-Dichloropropene, Total	ND	1.00		µg/L	1	3/9/2023 11:47:00 PM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	3/9/2023 11:47:00 PM
2-Chlorotoluene	ND	0.500		µg/L	1	3/9/2023 11:47:00 PM
2-Hexanone	ND	5.00		µg/L	1	3/9/2023 11:47:00 PM
4-Chlorotoluene	ND	0.500		µg/L	1	3/9/2023 11:47:00 PM
4-Methyl-2-pentanone	ND	5.00		µg/L	1	3/9/2023 11:47:00 PM
Acetone	ND	5.00		µg/L	1	3/9/2023 11:47:00 PM
Benzene	ND	0.500		µg/L	1	3/9/2023 11:47:00 PM
Bromobenzene	ND	0.500		µg/L	1	3/9/2023 11:47:00 PM
Bromodichloromethane	ND	0.500		µg/L	1	3/9/2023 11:47:00 PM
Bromoform	ND	0.500		µg/L	1	3/9/2023 11:47:00 PM
Bromomethane	ND	1.00		µg/L	1	3/9/2023 11:47:00 PM
Carbon tetrachloride	ND	0.500		µg/L	1	3/9/2023 11:47:00 PM
Chlorobenzene	ND	0.500		µg/L	1	3/9/2023 11:47:00 PM
Chlorobromomethane	ND	0.500		µg/L	1	3/9/2023 11:47:00 PM
Chlorodibromomethane	ND	0.500		µg/L	1	3/9/2023 11:47:00 PM
Chloroethane	ND	0.500		µg/L	1	3/9/2023 11:47:00 PM
Chloroform	0.878	0.500		µg/L	1	3/9/2023 11:47:00 PM
Chloromethane	ND	0.500		µg/L	1	3/9/2023 11:47:00 PM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	3/9/2023 11:47:00 PM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	3/9/2023 11:47:00 PM
Dibromomethane	ND	0.500		µg/L	1	3/9/2023 11:47:00 PM
Dichlorodifluoromethane	ND	0.500		µg/L	1	3/9/2023 11:47:00 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#: 23030475

Date Reported: 3/17/2023

**CLIENT:** OhioEPA-DDAGW  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030475-007  
**Client Sample ID:** PW-201FB Field Blank

**Collection Date:** 3/7/2023 12:20:00 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: ZDA	
<b>VOC-GC/MS (524.2)</b>						
Ethylbenzene	ND	0.500		µg/L	1	3/9/2023 11:47:00 PM
Hexachloro-1,3-butadiene	ND	0.500		µg/L	1	3/9/2023 11:47:00 PM
Isopropylbenzene	ND	0.500		µg/L	1	3/9/2023 11:47:00 PM
m,p-Xylene	ND	0.500		µg/L	1	3/9/2023 11:47:00 PM
Methylene chloride	17.5	0.500	*	µg/L	1	3/9/2023 11:47:00 PM
MTBE	ND	0.500		µg/L	1	3/9/2023 11:47:00 PM
n-Butylbenzene	ND	0.500		µg/L	1	3/9/2023 11:47:00 PM
n-Propylbenzene	ND	0.500		µg/L	1	3/9/2023 11:47:00 PM
o-Xylene	ND	0.500		µg/L	1	3/9/2023 11:47:00 PM
p-Isopropyltoluene	ND	0.500		µg/L	1	3/9/2023 11:47:00 PM
sec-Butylbenzene	ND	0.500	MB+	µg/L	1	3/9/2023 11:47:00 PM
Styrene	ND	0.500		µg/L	1	3/9/2023 11:47:00 PM
Tert-amyl methyl ether	ND	0.500		µg/L	1	3/9/2023 11:47:00 PM
Tert-butyl Alcohol	ND	5.00		µg/L	1	3/9/2023 11:47:00 PM
tert-Butylbenzene	ND	0.500		µg/L	1	3/9/2023 11:47:00 PM
Tetrachloroethene	ND	0.500		µg/L	1	3/9/2023 11:47:00 PM
Toluene	ND	0.500		µg/L	1	3/9/2023 11:47:00 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	3/9/2023 11:47:00 PM
trans-1,3-Dichloropropene	ND	0.500		µg/L	1	3/9/2023 11:47:00 PM
Trichloroethene	ND	0.500		µg/L	1	3/9/2023 11:47:00 PM
Trichlorofluoromethane	ND	0.500		µg/L	1	3/9/2023 11:47:00 PM
Vinyl chloride	ND	0.500		µg/L	1	3/9/2023 11:47:00 PM
Xylenes, Total	ND	0.500		µg/L	1	3/9/2023 11:47:00 PM
Surr: 1,2-Dichlorobenzene-d4	83.5	70 - 130		%Rec	1	3/9/2023 11:47:00 PM
Surr: 4-Bromofluorobenzene	83.5	70 - 130		%Rec	1	3/9/2023 11:47:00 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	3/8/2023 7:00:00 PM
1,3-Butadiene	ND	5.00		µg/L	1	3/8/2023 7:00:00 PM
1,4-Dioxane	ND	25.0		µg/L	1	3/8/2023 7:00:00 PM
2,2-Dichloropropane	ND	5.00		µg/L	1	3/8/2023 7:00:00 PM
2-Butanone	ND	25.0		µg/L	1	3/8/2023 7:00:00 PM
2-Nitropropane	ND	50.0		µg/L	1	3/8/2023 7:00:00 PM

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

Original





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# Analytical Report

(consolidated)

WO#: 23030475

Date Reported: 3/17/2023

**CLIENT:** OhioEPA-DDAGW **Collection Date:** 3/7/2023 12:20:00 PM  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030475-007 **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>						
Acrylonitrile (2-propenenitrile)	ND	30.0		µg/L	1	3/8/2023 7:00:00 PM
Allyl chloride	ND	5.00		µg/L	1	3/8/2023 7:00:00 PM
Carbon disulfide	ND	5.00		µg/L	1	3/8/2023 7:00:00 PM
Chloroprene	ND	5.00		µg/L	1	3/8/2023 7:00:00 PM
Cyclohexanone	ND	5.00		µg/L	1	3/8/2023 7:00:00 PM
Ethyl Ether	ND	10.0		µg/L	1	3/8/2023 7:00:00 PM
Epichlorohydrin	ND	20.0		µg/L	1	3/8/2023 7:00:00 PM
ETBE	ND	5.00		µg/L	1	3/8/2023 7:00:00 PM
Ethyl acrylate	ND	5.00		µg/L	1	3/8/2023 7:00:00 PM
Ethyl methacrylate	ND	5.00		µg/L	1	3/8/2023 7:00:00 PM
Hexachloroethane	ND	5.00		µg/L	1	3/8/2023 7:00:00 PM
Diisopropyl ether (DIPE)	ND	5.00		µg/L	1	3/8/2023 7:00:00 PM
Methacrylonitrile	ND	5.00		µg/L	1	3/8/2023 7:00:00 PM
Methyl acrylate	ND	5.00		µg/L	1	3/8/2023 7:00:00 PM
Methyl methacrylate	ND	5.00		µg/L	1	3/8/2023 7:00:00 PM
Propionitrile	ND	5.00		µg/L	1	3/8/2023 7:00:00 PM
trans-1,4-Dichloro-2-butene	ND	5.00		µg/L	1	3/8/2023 7:00:00 PM
Vinyl acetate	ND	5.00		µg/L	1	3/8/2023 7:00:00 PM
1,2,3-Trimethylbenzene	ND	5.00	QC+	µg/L	1	3/8/2023 7:00:00 PM
Surr: 4-Bromofluorobenzene	97.7	70 - 130		%Rec	1	3/8/2023 7:00:00 PM
Surr: Dibromofluoromethane	104	70 - 130		%Rec	1	3/8/2023 7:00:00 PM
Surr: Toluene-d8	100	70 - 130		%Rec	1	3/8/2023 7:00:00 PM

<b>VOC TENTATIVELY IDENTIFIED COMPOUNDS (TICS)</b>				<b>SW8260</b>	Analyst: ZDA	
TIC: 1-Chlorobutane	ND		J	µg/L	1	3/8/2023 7:00:00 PM
TIC: 1-Methylnaphthalene	ND		J	µg/L	1	3/8/2023 7:00:00 PM
TIC: 2-Butyloxyethyl acetate	ND		J	µg/L	1	3/8/2023 7:00:00 PM
TIC: 2-Ethylhexyl acrylate	ND		J	µg/L	1	3/8/2023 7:00:00 PM
TIC: Benzyl chloride	ND		J	µg/L	1	3/8/2023 7:00:00 PM
TIC: Bromoethane	ND		J	µg/L	1	3/8/2023 7:00:00 PM
TIC: Chloroacetonitrile	ND		J	µg/L	1	3/8/2023 7:00:00 PM
TIC: n-Butyl acrylate	ND		J	µg/L	1	3/8/2023 7:00:00 PM
TIC: Pentachloroethane	ND		J	µg/L	1	3/8/2023 7:00:00 PM

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

Original



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

# Analytical Report

(consolidated)

WO#: 23030475

Date Reported: 3/17/2023

**CLIENT:** OhioEPA-DDAGW **Collection Date:** 3/7/2023 12:25:00 PM  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030475-008 **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: <b>JDB</b>	
Diethylene glycol	ND	5000		µg/L	1	3/8/2023 5:34:00 PM
Ethylene glycol	ND	5000		µg/L	1	3/8/2023 5:34:00 PM
Propylene glycol	ND	5000		µg/L	1	3/8/2023 5:34:00 PM
Triethylene glycol	ND	5000		µg/L	1	3/8/2023 5:34:00 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	3/15/2023 8:35:00 AM
Ethylene dibromide	ND	0.0200		µg/L	1	3/15/2023 8:35:00 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	0.190		µg/L	1	3/16/2023 10:06:00 AM
Acenaphthylene	ND	0.0952		µg/L	1	3/16/2023 10:06:00 AM
Anthracene	ND	0.0952		µg/L	1	3/16/2023 10:06:00 AM
Benzo(a)anthracene	ND	0.0952		µg/L	1	3/16/2023 10:06:00 AM
Benzo(a)pyrene	ND	0.0952	QL-	µg/L	1	3/16/2023 10:06:00 AM
Benzo(b)fluoranthene	ND	0.0952	QL-	µg/L	1	3/16/2023 10:06:00 AM
Benzo(g,h,i)perylene	ND	0.0952	QL-	µg/L	1	3/16/2023 10:06:00 AM
Benzo(k)fluoranthene	ND	0.0952		µg/L	1	3/16/2023 10:06:00 AM
Bis(2-ethylhexyl) phthalate	0.133	0.190	JQL-	µg/L	1	3/16/2023 10:06:00 AM
Butyl benzyl phthalate	ND	0.190		µg/L	1	3/16/2023 10:06:00 AM
Chrysene	ND	0.0952		µg/L	1	3/16/2023 10:06:00 AM
Dibenz(a,h)anthracene	ND	0.0952	QL-	µg/L	1	3/16/2023 10:06:00 AM
Diethyl phthalate	0.0952	0.0952		µg/L	1	3/16/2023 10:06:00 AM
Dimethyl phthalate	ND	0.190		µg/L	1	3/16/2023 10:06:00 AM
Di-n-butyl phthalate	ND	0.190		µg/L	1	3/16/2023 10:06:00 AM
Fluorene	ND	0.0952		µg/L	1	3/16/2023 10:06:00 AM
Hexachlorobenzene	ND	0.0952		µg/L	1	3/16/2023 10:06:00 AM
Hexachlorocyclopentadiene	ND	0.0952		µg/L	1	3/16/2023 10:06:00 AM
Indeno(1,2,3-cd)pyrene	ND	0.952	QL-	µg/L	1	3/16/2023 10:06:00 AM
Isophorone	ND	0.190	QL-	µg/L	1	3/16/2023 10:06:00 AM
Phenanthrene	ND	0.0952		µg/L	1	3/16/2023 10:06:00 AM
Pyrene	ND	0.0952		µg/L	1	3/16/2023 10:06:00 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		

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# Analytical Report

(consolidated)

WO#: 23030475

Date Reported: 3/17/2023

**CLIENT:** OhioEPA-DDAGW **Collection Date:** 3/7/2023 12:25:00 PM  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030475-008 **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>SYNTHETIC ORGANIC COMPOUNDS BY GC/MS (EPA 525.3)</b>					<b>525</b>	Analyst: <b>CSS</b>
Surr: 1,3-Dimethyl-2-nitrobenzene	73.6	70 - 130		%Rec	1	3/16/2023 10:06:00 AM
Surr: Benzo(a)pyrene-d12	52.0	70 - 130	S	%Rec	1	3/16/2023 10:06:00 AM
Surr: Triphenyl phosphate	106	70 - 130		%Rec	1	3/16/2023 10:06:00 AM
<b>SVOC BY SW8270E</b>					<b>SW8270</b>	
<b>SVOC BY 8270E</b>					<b>SW3510C</b>	Analyst: <b>JAP</b>
Benzoic acid	ND	15.4		µg/L	1	3/12/2023 9:52:00 AM
2,6-Dinitrotoluene	ND	0.962		µg/L	1	3/12/2023 9:52:00 AM
2-Butoxyethanol	ND	28.8	Z	µg/L	1	3/16/2023
2-Methylnaphthalene	ND	0.962	QC+	µg/L	1	3/12/2023 9:52:00 AM
3,3'-Dichlorobenzidine	ND	9.62		µg/L	1	3/12/2023 9:52:00 AM
4-Nitrophenol	ND	4.81		µg/L	1	3/12/2023 9:52:00 AM
Acenaphthene	ND	0.962		µg/L	1	3/12/2023 9:52:00 AM
Bis(2-chloroethyl) ether	ND	0.962		µg/L	1	3/12/2023 9:52:00 AM
Di-n-octyl phthalate	ND	4.81		µg/L	1	3/12/2023 9:52:00 AM
Fluoranthene	ND	0.962		µg/L	1	3/12/2023 9:52:00 AM
Naphthalene	ND	0.962		µg/L	1	3/12/2023 9:52:00 AM
Phenol	ND	0.962		µg/L	1	3/12/2023 9:52:00 AM
3&4-Methylphenol	ND	0.962		µg/L	1	3/12/2023 9:52:00 AM
Surr: 2-Fluorophenol	24.7	20 - 130		%Rec	1	3/12/2023 9:52:00 AM
Surr: Phenol-d6	0.160	20 - 130	S	%Rec	1	3/12/2023 9:52:00 AM
Surr: Nitrobenzene-d5	57.2	27.4 - 130		%Rec	1	3/12/2023 9:52:00 AM
Surr: 2,4,6-Tribromophenol	52.3	54.3 - 133	S	%Rec	1	3/12/2023 9:52:00 AM
Surr: 2-Fluorobiphenyl	66.4	25.6 - 130		%Rec	1	3/12/2023 9:52:00 AM
Surr: p-Terphenyl-d14	114	20 - 181		%Rec	1	3/12/2023 9:52:00 AM
<b>DRINKING WATER VOCs (EPA 524.2)</b>					<b>E524.2</b>	
<b>VOC-GC/MS (524.2)</b>						Analyst: <b>ZDA</b>
1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	3/10/2023 12:16:00 AM
1,1,1-Trichloroethane	ND	0.500		µg/L	1	3/10/2023 12:16:00 AM
1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	3/10/2023 12:16:00 AM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	3/10/2023 12:16:00 AM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/10/2023 12:16:00 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	3/10/2023 12:16:00 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#: 23030475

Date Reported: 3/17/2023

**CLIENT:** OhioEPA-DDAGW **Collection Date:** 3/7/2023 12:25:00 PM  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030475-008 **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: ZDA	
<b>VOC-GC/MS (524.2)</b>						
1,1-Dichloropropene	ND	0.500		µg/L	1	3/10/2023 12:16:00 AM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	3/10/2023 12:16:00 AM
1,2,3-Trichloropropane	ND	0.500		µg/L	1	3/10/2023 12:16:00 AM
1,2,4-Trichlorobenzene	ND	0.500		µg/L	1	3/10/2023 12:16:00 AM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	3/10/2023 12:16:00 AM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	3/10/2023 12:16:00 AM
1,2-Dichloroethane	ND	0.500		µg/L	1	3/10/2023 12:16:00 AM
1,2-Dichloropropane	ND	0.500		µg/L	1	3/10/2023 12:16:00 AM
1,3,5-Trimethylbenzene	ND	0.500	MB+	µg/L	1	3/10/2023 12:16:00 AM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	3/10/2023 12:16:00 AM
1,3-Dichloropropane	ND	0.500		µg/L	1	3/10/2023 12:16:00 AM
1,3-Dichloropropene, Total	ND	1.00		µg/L	1	3/10/2023 12:16:00 AM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	3/10/2023 12:16:00 AM
2-Chlorotoluene	ND	0.500		µg/L	1	3/10/2023 12:16:00 AM
2-Hexanone	ND	5.00		µg/L	1	3/10/2023 12:16:00 AM
4-Chlorotoluene	ND	0.500		µg/L	1	3/10/2023 12:16:00 AM
4-Methyl-2-pentanone	ND	5.00		µg/L	1	3/10/2023 12:16:00 AM
Acetone	ND	5.00		µg/L	1	3/10/2023 12:16:00 AM
Benzene	ND	0.500		µg/L	1	3/10/2023 12:16:00 AM
Bromobenzene	ND	0.500		µg/L	1	3/10/2023 12:16:00 AM
Bromodichloromethane	0.694	0.500		µg/L	1	3/10/2023 12:16:00 AM
Bromoform	ND	0.500		µg/L	1	3/10/2023 12:16:00 AM
Bromomethane	ND	1.00		µg/L	1	3/10/2023 12:16:00 AM
Carbon tetrachloride	ND	0.500		µg/L	1	3/10/2023 12:16:00 AM
Chlorobenzene	ND	0.500		µg/L	1	3/10/2023 12:16:00 AM
Chlorobromomethane	ND	0.500		µg/L	1	3/10/2023 12:16:00 AM
Chlorodibromomethane	0.438	0.500	J	µg/L	1	3/10/2023 12:16:00 AM
Chloroethane	ND	0.500		µg/L	1	3/10/2023 12:16:00 AM
Chloroform	0.662	0.500		µg/L	1	3/10/2023 12:16:00 AM
Chloromethane	ND	0.500		µg/L	1	3/10/2023 12:16:00 AM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	3/10/2023 12:16:00 AM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	3/10/2023 12:16:00 AM
Dibromomethane	ND	0.500		µg/L	1	3/10/2023 12:16:00 AM
Dichlorodifluoromethane	ND	0.500		µg/L	1	3/10/2023 12:16:00 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#: 23030475

Date Reported: 3/17/2023

**CLIENT:** OhioEPA-DDAGW **Collection Date:** 3/7/2023 12:25:00 PM  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030475-008 **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: ZDA	
<b>VOC-GC/MS (524.2)</b>						
Ethylbenzene	ND	0.500		µg/L	1	3/10/2023 12:16:00 AM
Hexachloro-1,3-butadiene	ND	0.500		µg/L	1	3/10/2023 12:16:00 AM
Isopropylbenzene	ND	0.500		µg/L	1	3/10/2023 12:16:00 AM
m,p-Xylene	ND	0.500		µg/L	1	3/10/2023 12:16:00 AM
Methylene chloride	ND	0.500		µg/L	1	3/10/2023 12:16:00 AM
MTBE	ND	0.500		µg/L	1	3/10/2023 12:16:00 AM
n-Butylbenzene	ND	0.500		µg/L	1	3/10/2023 12:16:00 AM
n-Propylbenzene	ND	0.500		µg/L	1	3/10/2023 12:16:00 AM
o-Xylene	ND	0.500		µg/L	1	3/10/2023 12:16:00 AM
p-Isopropyltoluene	ND	0.500		µg/L	1	3/10/2023 12:16:00 AM
sec-Butylbenzene	ND	0.500	MB+	µg/L	1	3/10/2023 12:16:00 AM
Styrene	ND	0.500		µg/L	1	3/10/2023 12:16:00 AM
Tert-amyl methyl ether	ND	0.500		µg/L	1	3/10/2023 12:16:00 AM
Tert-butyl Alcohol	ND	5.00		µg/L	1	3/10/2023 12:16:00 AM
tert-Butylbenzene	ND	0.500		µg/L	1	3/10/2023 12:16:00 AM
Tetrachloroethene	ND	0.500		µg/L	1	3/10/2023 12:16:00 AM
Toluene	ND	0.500		µg/L	1	3/10/2023 12:16:00 AM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	3/10/2023 12:16:00 AM
trans-1,3-Dichloropropene	ND	0.500		µg/L	1	3/10/2023 12:16:00 AM
Trichloroethene	ND	0.500		µg/L	1	3/10/2023 12:16:00 AM
Trichlorofluoromethane	ND	0.500		µg/L	1	3/10/2023 12:16:00 AM
Vinyl chloride	ND	0.500		µg/L	1	3/10/2023 12:16:00 AM
Xylenes, Total	ND	0.500		µg/L	1	3/10/2023 12:16:00 AM
Surr: 1,2-Dichlorobenzene-d4	84.2	70 - 130		%Rec	1	3/10/2023 12:16:00 AM
Surr: 4-Bromofluorobenzene	82.6	70 - 130		%Rec	1	3/10/2023 12:16:00 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	3/8/2023 7:24:00 PM
1,3-Butadiene	ND	5.00		µg/L	1	3/8/2023 7:24:00 PM
1,4-Dioxane	ND	25.0		µg/L	1	3/8/2023 7:24:00 PM
2,2-Dichloropropane	ND	5.00		µg/L	1	3/8/2023 7:24:00 PM
2-Butanone	ND	25.0		µg/L	1	3/8/2023 7:24:00 PM
2-Nitropropane	ND	50.0		µg/L	1	3/8/2023 7:24:00 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#: 23030475

Date Reported: 3/17/2023

**CLIENT:** OhioEPA-DDAGW **Collection Date:** 3/7/2023 12:25:00 PM  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030475-008 **Matrix:** DRINKING WATER  
**Client Sample ID:** PW-207DUPE Duplicate

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**VOC ANALYSIS (8260D)** **SW8260** Analyst: ZDA  
**VOC BY GC/MS (8260D)**

Acrylonitrile (2-propenenitrile)	ND	30.0		µg/L	1	3/8/2023 7:24:00 PM
Allyl chloride	ND	5.00		µg/L	1	3/8/2023 7:24:00 PM
Carbon disulfide	ND	5.00		µg/L	1	3/8/2023 7:24:00 PM
Chloroprene	ND	5.00		µg/L	1	3/8/2023 7:24:00 PM
Cyclohexanone	ND	5.00		µg/L	1	3/8/2023 7:24:00 PM
Ethyl Ether	ND	10.0		µg/L	1	3/8/2023 7:24:00 PM
Epichlorohydrin	ND	20.0		µg/L	1	3/8/2023 7:24:00 PM
ETBE	ND	5.00		µg/L	1	3/8/2023 7:24:00 PM
Ethyl acrylate	ND	5.00		µg/L	1	3/8/2023 7:24:00 PM
Ethyl methacrylate	ND	5.00		µg/L	1	3/8/2023 7:24:00 PM
Hexachloroethane	ND	5.00		µg/L	1	3/8/2023 7:24:00 PM
Diisopropyl ether (DIPE)	ND	5.00		µg/L	1	3/8/2023 7:24:00 PM
Methacrylonitrile	ND	5.00		µg/L	1	3/8/2023 7:24:00 PM
Methyl acrylate	ND	5.00		µg/L	1	3/8/2023 7:24:00 PM
Methyl methacrylate	ND	5.00		µg/L	1	3/8/2023 7:24:00 PM
Propionitrile	ND	5.00		µg/L	1	3/8/2023 7:24:00 PM
trans-1,4-Dichloro-2-butene	ND	5.00		µg/L	1	3/8/2023 7:24:00 PM
Vinyl acetate	ND	5.00		µg/L	1	3/8/2023 7:24:00 PM
1,2,3-Trimethylbenzene	ND	5.00	QC+	µg/L	1	3/8/2023 7:24:00 PM
Surr: 4-Bromofluorobenzene	97.0	70 - 130		%Rec	1	3/8/2023 7:24:00 PM
Surr: Dibromofluoromethane	102	70 - 130		%Rec	1	3/8/2023 7:24:00 PM
Surr: Toluene-d8	95.5	70 - 130		%Rec	1	3/8/2023 7:24:00 PM

**VOC TENTATIVELY IDENTIFIED COMPOUNDS (TICS)** **SW8260** Analyst: ZDA

TIC: 1-Chlorobutane	ND		J	µg/L	1	3/8/2023 7:24:00 PM
TIC: 1-Methylnaphthalene	ND		J	µg/L	1	3/8/2023 7:24:00 PM
TIC: 2-Butyloxyethyl acetate	ND		J	µg/L	1	3/8/2023 7:24:00 PM
TIC: 2-Ethylhexyl acrylate	ND		J	µg/L	1	3/8/2023 7:24:00 PM
TIC: Benzyl chloride	ND		J	µg/L	1	3/8/2023 7:24:00 PM
TIC: Bromoethane	ND		J	µg/L	1	3/8/2023 7:24:00 PM
TIC: Chloroacetonitrile	ND		J	µg/L	1	3/8/2023 7:24:00 PM
TIC: n-Butyl acrylate	ND		J	µg/L	1	3/8/2023 7:24:00 PM
TIC: Pentachloroethane	ND		J	µg/L	1	3/8/2023 7:24:00 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#: 23030475

Date Reported: 3/17/2023

**CLIENT:** OhioEPA-DDAGW

**Collection Date:**

**Project:** Ohio EPA PWS-EP

**Lab ID:** 23030475-009

**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	3/15/2023 8:56:00 AM
Ethylene dibromide	ND	0.0200		µg/L	1	3/15/2023 8:56:00 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	3/8/2023 2:50:00 PM
1,1,1-Trichloroethane	ND	0.500		µg/L	1	3/8/2023 2:50:00 PM
1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	3/8/2023 2:50:00 PM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	3/8/2023 2:50:00 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/8/2023 2:50:00 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	3/8/2023 2:50:00 PM
1,1-Dichloropropene	ND	0.500		µg/L	1	3/8/2023 2:50:00 PM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	3/8/2023 2:50:00 PM
1,2,3-Trichloropropane	ND	0.500		µg/L	1	3/8/2023 2:50:00 PM
1,2,4-Trichlorobenzene	ND	0.500		µg/L	1	3/8/2023 2:50:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	3/8/2023 2:50:00 PM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	3/8/2023 2:50:00 PM
1,2-Dichloroethane	ND	0.500		µg/L	1	3/8/2023 2:50:00 PM
1,2-Dichloropropane	ND	0.500		µg/L	1	3/8/2023 2:50:00 PM
1,3,5-Trimethylbenzene	ND	0.500		µg/L	1	3/8/2023 2:50:00 PM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	3/8/2023 2:50:00 PM
1,3-Dichloropropane	ND	0.500		µg/L	1	3/8/2023 2:50:00 PM
1,3-Dichloropropene, Total	ND	1.00		µg/L	1	3/8/2023 2:50:00 PM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	3/8/2023 2:50:00 PM
2-Chlorotoluene	ND	0.500		µg/L	1	3/8/2023 2:50:00 PM
2-Hexanone	ND	5.00		µg/L	1	3/8/2023 2:50:00 PM
4-Chlorotoluene	ND	0.500		µg/L	1	3/8/2023 2:50:00 PM
4-Methyl-2-pentanone	ND	5.00		µg/L	1	3/8/2023 2:50:00 PM
Acetone	ND	5.00		µg/L	1	3/8/2023 2:50:00 PM
Benzene	ND	0.500		µg/L	1	3/8/2023 2:50:00 PM
Bromobenzene	ND	0.500		µg/L	1	3/8/2023 2:50:00 PM
Bromodichloromethane	ND	0.500		µg/L	1	3/8/2023 2:50:00 PM
Bromoform	ND	0.500		µg/L	1	3/8/2023 2:50:00 PM
Bromomethane	ND	1.00		µg/L	1	3/8/2023 2:50:00 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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 TEL: (330) 253-8211 FAX: (330) 253-4489  
 Website: <http://www.settek.com>

# Analytical Report

(consolidated)

WO#: 23030475

Date Reported: 3/17/2023

**CLIENT:** OhioEPA-DDAGW

**Collection Date:**

**Project:** Ohio EPA PWS-EP

**Lab ID:** 23030475-009

**Matrix:** DRINKING WATER

**Client Sample ID:** Trip Blank-1

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	3/8/2023 2:50:00 PM
Chlorobenzene	ND	0.500		µg/L	1	3/8/2023 2:50:00 PM
Chlorobromomethane	ND	0.500		µg/L	1	3/8/2023 2:50:00 PM
Chlorodibromomethane	ND	0.500		µg/L	1	3/8/2023 2:50:00 PM
Chloroethane	ND	0.500		µg/L	1	3/8/2023 2:50:00 PM
Chloroform	ND	0.500		µg/L	1	3/8/2023 2:50:00 PM
Chloromethane	ND	0.500		µg/L	1	3/8/2023 2:50:00 PM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	3/8/2023 2:50:00 PM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	3/8/2023 2:50:00 PM
Dibromomethane	ND	0.500		µg/L	1	3/8/2023 2:50:00 PM
Dichlorodifluoromethane	ND	0.500		µg/L	1	3/8/2023 2:50:00 PM
Ethylbenzene	ND	0.500		µg/L	1	3/8/2023 2:50:00 PM
Hexachloro-1,3-butadiene	ND	0.500		µg/L	1	3/8/2023 2:50:00 PM
Isopropylbenzene	ND	0.500		µg/L	1	3/8/2023 2:50:00 PM
m,p-Xylene	ND	0.500		µg/L	1	3/8/2023 2:50:00 PM
Methylene chloride	0.877	0.500		µg/L	1	3/8/2023 2:50:00 PM
MTBE	ND	0.500		µg/L	1	3/8/2023 2:50:00 PM
n-Butylbenzene	ND	0.500		µg/L	1	3/8/2023 2:50:00 PM
n-Propylbenzene	ND	0.500		µg/L	1	3/8/2023 2:50:00 PM
o-Xylene	ND	0.500		µg/L	1	3/8/2023 2:50:00 PM
p-Isopropyltoluene	ND	0.500		µg/L	1	3/8/2023 2:50:00 PM
sec-Butylbenzene	ND	0.500		µg/L	1	3/8/2023 2:50:00 PM
Styrene	ND	0.500		µg/L	1	3/8/2023 2:50:00 PM
Tert-amyl methyl ether	ND	0.500		µg/L	1	3/8/2023 2:50:00 PM
Tert-butyl Alcohol	ND	5.00		µg/L	1	3/8/2023 2:50:00 PM
tert-Butylbenzene	ND	0.500		µg/L	1	3/8/2023 2:50:00 PM
Tetrachloroethene	ND	0.500		µg/L	1	3/8/2023 2:50:00 PM
Toluene	ND	0.500		µg/L	1	3/8/2023 2:50:00 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	3/8/2023 2:50:00 PM
trans-1,3-Dichloropropene	ND	0.500		µg/L	1	3/8/2023 2:50:00 PM
Trichloroethene	ND	0.500		µg/L	1	3/8/2023 2:50:00 PM
Trichlorofluoromethane	ND	0.500		µg/L	1	3/8/2023 2:50:00 PM
Vinyl chloride	ND	0.500		µg/L	1	3/8/2023 2:50:00 PM
Xylenes, Total	ND	0.500		µg/L	1	3/8/2023 2:50:00 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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 Website: <http://www.settek.com>

# Analytical Report

(consolidated)

WO#: 23030475

Date Reported: 3/17/2023

**CLIENT:** OhioEPA-DDAGW  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030475-009  
**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	94.6	70	-	%Rec	1	3/8/2023 2:50:00 PM
Surr: 4-Bromofluorobenzene	102	70	-	%Rec	1	3/8/2023 2:50:00 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	3/8/2023 2:42:00 PM
1,3-Butadiene	ND	5.00		µg/L	1	3/8/2023 2:42:00 PM
1,4-Dioxane	ND	25.0		µg/L	1	3/8/2023 2:42:00 PM
2,2-Dichloropropane	ND	5.00		µg/L	1	3/8/2023 2:42:00 PM
2-Butanone	ND	25.0		µg/L	1	3/8/2023 2:42:00 PM
2-Nitropropane	ND	50.0		µg/L	1	3/8/2023 2:42:00 PM
Acrylonitrile (2-propenenitrile)	ND	30.0		µg/L	1	3/8/2023 2:42:00 PM
Allyl chloride	ND	5.00		µg/L	1	3/8/2023 2:42:00 PM
Carbon disulfide	ND	5.00		µg/L	1	3/8/2023 2:42:00 PM
Chloroprene	ND	5.00		µg/L	1	3/8/2023 2:42:00 PM
Cyclohexanone	ND	5.00		µg/L	1	3/8/2023 2:42:00 PM
Ethyl Ether	ND	10.0		µg/L	1	3/8/2023 2:42:00 PM
Epichlorohydrin	ND	20.0		µg/L	1	3/8/2023 2:42:00 PM
ETBE	ND	5.00		µg/L	1	3/8/2023 2:42:00 PM
Ethyl acrylate	ND	5.00		µg/L	1	3/8/2023 2:42:00 PM
Ethyl methacrylate	ND	5.00		µg/L	1	3/8/2023 2:42:00 PM
Hexachloroethane	ND	5.00		µg/L	1	3/8/2023 2:42:00 PM
Diisopropyl ether (DIPE)	ND	5.00		µg/L	1	3/8/2023 2:42:00 PM
Methacrylonitrile	ND	5.00		µg/L	1	3/8/2023 2:42:00 PM
Methyl acrylate	ND	5.00		µg/L	1	3/8/2023 2:42:00 PM
Methyl methacrylate	ND	5.00		µg/L	1	3/8/2023 2:42:00 PM
Propionitrile	ND	5.00		µg/L	1	3/8/2023 2:42:00 PM
trans-1,4-Dichloro-2-butene	ND	5.00		µg/L	1	3/8/2023 2:42:00 PM
Vinyl acetate	ND	5.00		µg/L	1	3/8/2023 2:42:00 PM
1,2,3-Trimethylbenzene	ND	5.00	QC+	µg/L	1	3/8/2023 2:42:00 PM
Surr: 4-Bromofluorobenzene	95.4	70	-	%Rec	1	3/8/2023 2:42:00 PM
Surr: Dibromofluoromethane	99.3	70	-	%Rec	1	3/8/2023 2:42:00 PM
Surr: Toluene-d8	98.1	70	-	%Rec	1	3/8/2023 2:42:00 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#: 23030475

Date Reported: 3/17/2023

**CLIENT:** OhioEPA-DDAGW

**Collection Date:**

**Project:** Ohio EPA PWS-EP

**Lab ID:** 23030475-009

**Matrix:** DRINKING WATER

**Client Sample ID:** Trip Blank-1

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>VOC TENTATIVELY IDENTIFIED COMPOUNDS (TICS)</b>		<b>SW8260</b>			Analyst: ZDA	
TIC: 1-Chlorobutane	ND	J		µg/L	1	3/8/2023 2:42:00 PM
TIC: 1-Methylnaphthalene	ND	J		µg/L	1	3/8/2023 2:42:00 PM
TIC: 2-Butyloxyethyl acetate	ND	J		µg/L	1	3/8/2023 2:42:00 PM
TIC: 2-Ethylhexyl acrylate	ND	J		µg/L	1	3/8/2023 2:42:00 PM
TIC: Benzyl chloride	ND	J		µg/L	1	3/8/2023 2:42:00 PM
TIC: Bromoethane	ND	J		µg/L	1	3/8/2023 2:42:00 PM
TIC: Chloroacetonitrile	ND	J		µg/L	1	3/8/2023 2:42:00 PM
TIC: n-Butyl acrylate	ND	J		µg/L	1	3/8/2023 2:42:00 PM
TIC: Pentachloroethane	ND	J		µg/L	1	3/8/2023 2:42:00 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#: 23030475

Date Reported: 3/17/2023

**CLIENT:** OhioEPA-DDAGW  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030475-010  
**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>
<b>EDB, DBCP, 123TCP BY GC (EPA 504.1)</b>						Analyst: <b>PGP</b>
Dibromochloropropane	ND	0.0400		µg/L	1	3/15/2023 9:16:00 AM
Ethylene dibromide	ND	0.0200		µg/L	1	3/15/2023 9:16:00 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	3/8/2023 3:16:00 PM
1,1,1-Trichloroethane	ND	0.500		µg/L	1	3/8/2023 3:16:00 PM
1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	3/8/2023 3:16:00 PM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	3/8/2023 3:16:00 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/8/2023 3:16:00 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	3/8/2023 3:16:00 PM
1,1-Dichloropropene	ND	0.500		µg/L	1	3/8/2023 3:16:00 PM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	3/8/2023 3:16:00 PM
1,2,3-Trichloropropane	ND	0.500		µg/L	1	3/8/2023 3:16:00 PM
1,2,4-Trichlorobenzene	ND	0.500		µg/L	1	3/8/2023 3:16:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	3/8/2023 3:16:00 PM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	3/8/2023 3:16:00 PM
1,2-Dichloroethane	ND	0.500		µg/L	1	3/8/2023 3:16:00 PM
1,2-Dichloropropane	ND	0.500		µg/L	1	3/8/2023 3:16:00 PM
1,3,5-Trimethylbenzene	ND	0.500		µg/L	1	3/8/2023 3:16:00 PM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	3/8/2023 3:16:00 PM
1,3-Dichloropropane	ND	0.500		µg/L	1	3/8/2023 3:16:00 PM
1,3-Dichloropropene, Total	ND	1.00		µg/L	1	3/8/2023 3:16:00 PM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	3/8/2023 3:16:00 PM
2-Chlorotoluene	ND	0.500		µg/L	1	3/8/2023 3:16:00 PM
2-Hexanone	ND	5.00		µg/L	1	3/8/2023 3:16:00 PM
4-Chlorotoluene	ND	0.500		µg/L	1	3/8/2023 3:16:00 PM
4-Methyl-2-pentanone	ND	5.00		µg/L	1	3/8/2023 3:16:00 PM
Acetone	ND	5.00		µg/L	1	3/8/2023 3:16:00 PM
Benzene	ND	0.500		µg/L	1	3/8/2023 3:16:00 PM
Bromobenzene	ND	0.500		µg/L	1	3/8/2023 3:16:00 PM
Bromodichloromethane	ND	0.500		µg/L	1	3/8/2023 3:16:00 PM
Bromoform	ND	0.500		µg/L	1	3/8/2023 3:16:00 PM
Bromomethane	ND	1.00		µg/L	1	3/8/2023 3:16:00 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#: 23030475

Date Reported: 3/17/2023

**CLIENT:** OhioEPA-DDAGW  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030475-010  
**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	3/8/2023 3:16:00 PM
Chlorobenzene	ND	0.500		µg/L	1	3/8/2023 3:16:00 PM
Chlorobromomethane	ND	0.500		µg/L	1	3/8/2023 3:16:00 PM
Chlorodibromomethane	ND	0.500		µg/L	1	3/8/2023 3:16:00 PM
Chloroethane	ND	0.500		µg/L	1	3/8/2023 3:16:00 PM
Chloroform	ND	0.500		µg/L	1	3/8/2023 3:16:00 PM
Chloromethane	ND	0.500		µg/L	1	3/8/2023 3:16:00 PM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	3/8/2023 3:16:00 PM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	3/8/2023 3:16:00 PM
Dibromomethane	ND	0.500		µg/L	1	3/8/2023 3:16:00 PM
Dichlorodifluoromethane	ND	0.500		µg/L	1	3/8/2023 3:16:00 PM
Ethylbenzene	ND	0.500		µg/L	1	3/8/2023 3:16:00 PM
Hexachloro-1,3-butadiene	ND	0.500		µg/L	1	3/8/2023 3:16:00 PM
Isopropylbenzene	ND	0.500		µg/L	1	3/8/2023 3:16:00 PM
m,p-Xylene	ND	0.500		µg/L	1	3/8/2023 3:16:00 PM
Methylene chloride	1.80	0.500		µg/L	1	3/8/2023 3:16:00 PM
MTBE	ND	0.500		µg/L	1	3/8/2023 3:16:00 PM
n-Butylbenzene	ND	0.500		µg/L	1	3/8/2023 3:16:00 PM
n-Propylbenzene	ND	0.500		µg/L	1	3/8/2023 3:16:00 PM
o-Xylene	ND	0.500		µg/L	1	3/8/2023 3:16:00 PM
p-Isopropyltoluene	ND	0.500		µg/L	1	3/8/2023 3:16:00 PM
sec-Butylbenzene	ND	0.500		µg/L	1	3/8/2023 3:16:00 PM
Styrene	ND	0.500		µg/L	1	3/8/2023 3:16:00 PM
Tert-amyl methyl ether	ND	0.500		µg/L	1	3/8/2023 3:16:00 PM
Tert-butyl Alcohol	ND	5.00		µg/L	1	3/8/2023 3:16:00 PM
tert-Butylbenzene	ND	0.500		µg/L	1	3/8/2023 3:16:00 PM
Tetrachloroethene	ND	0.500		µg/L	1	3/8/2023 3:16:00 PM
Toluene	ND	0.500		µg/L	1	3/8/2023 3:16:00 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	3/8/2023 3:16:00 PM
trans-1,3-Dichloropropene	ND	0.500		µg/L	1	3/8/2023 3:16:00 PM
Trichloroethene	ND	0.500		µg/L	1	3/8/2023 3:16:00 PM
Trichlorofluoromethane	ND	0.500		µg/L	1	3/8/2023 3:16:00 PM
Vinyl chloride	ND	0.500		µg/L	1	3/8/2023 3:16:00 PM
Xylenes, Total	ND	0.500		µg/L	1	3/8/2023 3:16:00 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#: 23030475

Date Reported: 3/17/2023

**CLIENT:** OhioEPA-DDAGW  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030475-010  
**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	93.7	70 - 130		%Rec	1	3/8/2023 3:16:00 PM
Surr: 4-Bromofluorobenzene	95.0	70 - 130		%Rec	1	3/8/2023 3:16:00 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	3/8/2023 3:06:00 PM
1,3-Butadiene	ND	5.00		µg/L	1	3/8/2023 3:06:00 PM
1,4-Dioxane	ND	25.0		µg/L	1	3/8/2023 3:06:00 PM
2,2-Dichloropropane	ND	5.00		µg/L	1	3/8/2023 3:06:00 PM
2-Butanone	ND	25.0		µg/L	1	3/8/2023 3:06:00 PM
2-Nitropropane	ND	50.0		µg/L	1	3/8/2023 3:06:00 PM
Acrylonitrile (2-propenenitrile)	ND	30.0		µg/L	1	3/8/2023 3:06:00 PM
Allyl chloride	ND	5.00		µg/L	1	3/8/2023 3:06:00 PM
Carbon disulfide	ND	5.00		µg/L	1	3/8/2023 3:06:00 PM
Chloroprene	ND	5.00		µg/L	1	3/8/2023 3:06:00 PM
Cyclohexanone	ND	5.00		µg/L	1	3/8/2023 3:06:00 PM
Ethyl Ether	ND	10.0		µg/L	1	3/8/2023 3:06:00 PM
Epichlorohydrin	ND	20.0		µg/L	1	3/8/2023 3:06:00 PM
ETBE	ND	5.00		µg/L	1	3/8/2023 3:06:00 PM
Ethyl acrylate	ND	5.00		µg/L	1	3/8/2023 3:06:00 PM
Ethyl methacrylate	ND	5.00		µg/L	1	3/8/2023 3:06:00 PM
Hexachloroethane	ND	5.00		µg/L	1	3/8/2023 3:06:00 PM
Diisopropyl ether (DIPE)	ND	5.00		µg/L	1	3/8/2023 3:06:00 PM
Methacrylonitrile	ND	5.00		µg/L	1	3/8/2023 3:06:00 PM
Methyl acrylate	ND	5.00		µg/L	1	3/8/2023 3:06:00 PM
Methyl methacrylate	ND	5.00		µg/L	1	3/8/2023 3:06:00 PM
Propionitrile	ND	5.00		µg/L	1	3/8/2023 3:06:00 PM
trans-1,4-Dichloro-2-butene	ND	5.00		µg/L	1	3/8/2023 3:06:00 PM
Vinyl acetate	ND	5.00		µg/L	1	3/8/2023 3:06:00 PM
1,2,3-Trimethylbenzene	ND	5.00	QC+	µg/L	1	3/8/2023 3:06:00 PM
Surr: 4-Bromofluorobenzene	99.2	70 - 130		%Rec	1	3/8/2023 3:06:00 PM
Surr: Dibromofluoromethane	101	70 - 130		%Rec	1	3/8/2023 3:06:00 PM
Surr: Toluene-d8	96.8	70 - 130		%Rec	1	3/8/2023 3:06:00 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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 TEL: (330) 253-8211 FAX: (330) 253-4489  
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# Analytical Report

(consolidated)

WO#: 23030475

Date Reported: 3/17/2023

**CLIENT:** OhioEPA-DDAGW

**Collection Date:**

**Project:** Ohio EPA PWS-EP

**Lab ID:** 23030475-010

**Matrix:** DRINKING WATER

**Client Sample ID:** Trip Blank-2

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

**SW8260**

Analyst: ZDA

TIC: 1-Chlorobutane	ND	J		µg/L	1	3/8/2023 3:06:00 PM
TIC: 1-Methylnaphthalene	ND	J		µg/L	1	3/8/2023 3:06:00 PM
TIC: 2-Butyloxyethyl acetate	ND	J		µg/L	1	3/8/2023 3:06:00 PM
TIC: 2-Ethylhexyl acrylate	ND	J		µg/L	1	3/8/2023 3:06:00 PM
TIC: Benzyl chloride	ND	J		µg/L	1	3/8/2023 3:06:00 PM
TIC: Bromoethane	ND	J		µg/L	1	3/8/2023 3:06:00 PM
TIC: Chloroacetonitrile	ND	J		µg/L	1	3/8/2023 3:06:00 PM
TIC: n-Butyl acrylate	ND	J		µg/L	1	3/8/2023 3:06:00 PM
TIC: Pentachloroethane	ND	J		µg/L	1	3/8/2023 3:06:00 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#: 23030475

Date Reported: 3/17/2023

**CLIENT:** OhioEPA-DDAGW  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030475-011  
**Client Sample ID:** Trip Blank-3

**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>
<b>EDB, DBCP, 123TCP BY GC (EPA 504.1)</b>						Analyst: <b>PGP</b>
Dibromochloropropane	ND	0.0400		µg/L	1	3/15/2023 9:36:00 AM
Ethylene dibromide	ND	0.0200		µg/L	1	3/15/2023 9:36:00 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	3/8/2023 3:42:00 PM
1,1,1-Trichloroethane	ND	0.500		µg/L	1	3/8/2023 3:42:00 PM
1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	3/8/2023 3:42:00 PM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	3/8/2023 3:42:00 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/8/2023 3:42:00 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	3/8/2023 3:42:00 PM
1,1-Dichloropropene	ND	0.500		µg/L	1	3/8/2023 3:42:00 PM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	3/8/2023 3:42:00 PM
1,2,3-Trichloropropane	ND	0.500		µg/L	1	3/8/2023 3:42:00 PM
1,2,4-Trichlorobenzene	ND	0.500		µg/L	1	3/8/2023 3:42:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	3/8/2023 3:42:00 PM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	3/8/2023 3:42:00 PM
1,2-Dichloroethane	ND	0.500		µg/L	1	3/8/2023 3:42:00 PM
1,2-Dichloropropane	ND	0.500		µg/L	1	3/8/2023 3:42:00 PM
1,3,5-Trimethylbenzene	ND	0.500		µg/L	1	3/8/2023 3:42:00 PM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	3/8/2023 3:42:00 PM
1,3-Dichloropropane	ND	0.500		µg/L	1	3/8/2023 3:42:00 PM
1,3-Dichloropropene, Total	ND	1.00		µg/L	1	3/8/2023 3:42:00 PM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	3/8/2023 3:42:00 PM
2-Chlorotoluene	ND	0.500		µg/L	1	3/8/2023 3:42:00 PM
2-Hexanone	ND	5.00		µg/L	1	3/8/2023 3:42:00 PM
4-Chlorotoluene	ND	0.500		µg/L	1	3/8/2023 3:42:00 PM
4-Methyl-2-pentanone	ND	5.00		µg/L	1	3/8/2023 3:42:00 PM
Acetone	ND	5.00		µg/L	1	3/8/2023 3:42:00 PM
Benzene	ND	0.500		µg/L	1	3/8/2023 3:42:00 PM
Bromobenzene	ND	0.500		µg/L	1	3/8/2023 3:42:00 PM
Bromodichloromethane	ND	0.500		µg/L	1	3/8/2023 3:42:00 PM
Bromoform	ND	0.500		µg/L	1	3/8/2023 3:42:00 PM
Bromomethane	ND	1.00		µg/L	1	3/8/2023 3:42:00 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#: 23030475

Date Reported: 3/17/2023

**CLIENT:** OhioEPA-DDAGW  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030475-011  
**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	3/8/2023 3:42:00 PM
Chlorobenzene	ND	0.500		µg/L	1	3/8/2023 3:42:00 PM
Chlorobromomethane	ND	0.500		µg/L	1	3/8/2023 3:42:00 PM
Chlorodibromomethane	ND	0.500		µg/L	1	3/8/2023 3:42:00 PM
Chloroethane	ND	0.500		µg/L	1	3/8/2023 3:42:00 PM
Chloroform	ND	0.500		µg/L	1	3/8/2023 3:42:00 PM
Chloromethane	ND	0.500		µg/L	1	3/8/2023 3:42:00 PM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	3/8/2023 3:42:00 PM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	3/8/2023 3:42:00 PM
Dibromomethane	ND	0.500		µg/L	1	3/8/2023 3:42:00 PM
Dichlorodifluoromethane	ND	0.500		µg/L	1	3/8/2023 3:42:00 PM
Ethylbenzene	ND	0.500		µg/L	1	3/8/2023 3:42:00 PM
Hexachloro-1,3-butadiene	ND	0.500		µg/L	1	3/8/2023 3:42:00 PM
Isopropylbenzene	ND	0.500		µg/L	1	3/8/2023 3:42:00 PM
m,p-Xylene	ND	0.500		µg/L	1	3/8/2023 3:42:00 PM
Methylene chloride	1.24	0.500		µg/L	1	3/8/2023 3:42:00 PM
MTBE	ND	0.500		µg/L	1	3/8/2023 3:42:00 PM
n-Butylbenzene	ND	0.500		µg/L	1	3/8/2023 3:42:00 PM
n-Propylbenzene	ND	0.500		µg/L	1	3/8/2023 3:42:00 PM
o-Xylene	ND	0.500		µg/L	1	3/8/2023 3:42:00 PM
p-Isopropyltoluene	ND	0.500		µg/L	1	3/8/2023 3:42:00 PM
sec-Butylbenzene	ND	0.500		µg/L	1	3/8/2023 3:42:00 PM
Styrene	ND	0.500		µg/L	1	3/8/2023 3:42:00 PM
Tert-amyl methyl ether	ND	0.500		µg/L	1	3/8/2023 3:42:00 PM
Tert-butyl Alcohol	ND	5.00		µg/L	1	3/8/2023 3:42:00 PM
tert-Butylbenzene	ND	0.500		µg/L	1	3/8/2023 3:42:00 PM
Tetrachloroethene	ND	0.500		µg/L	1	3/8/2023 3:42:00 PM
Toluene	ND	0.500		µg/L	1	3/8/2023 3:42:00 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	3/8/2023 3:42:00 PM
trans-1,3-Dichloropropene	ND	0.500		µg/L	1	3/8/2023 3:42:00 PM
Trichloroethene	ND	0.500		µg/L	1	3/8/2023 3:42:00 PM
Trichlorofluoromethane	ND	0.500		µg/L	1	3/8/2023 3:42:00 PM
Vinyl chloride	ND	0.500		µg/L	1	3/8/2023 3:42:00 PM
Xylenes, Total	ND	0.500		µg/L	1	3/8/2023 3:42:00 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#: 23030475

Date Reported: 3/17/2023

**CLIENT:** OhioEPA-DDAGW

**Collection Date:**

**Project:** Ohio EPA PWS-EP

**Lab ID:** 23030475-011

**Matrix:** DRINKING WATER

**Client Sample ID:** Trip Blank-3

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>						
Surr: 1,2-Dichlorobenzene-d4	92.5	70	-	130	%Rec	1 3/8/2023 3:42:00 PM
Surr: 4-Bromofluorobenzene	90.7	70	-	130	%Rec	1 3/8/2023 3:42:00 PM
<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	3/8/2023 3:29:00 PM
1,3-Butadiene	ND	5.00		µg/L	1	3/8/2023 3:29:00 PM
1,4-Dioxane	ND	25.0		µg/L	1	3/8/2023 3:29:00 PM
2,2-Dichloropropane	ND	5.00		µg/L	1	3/8/2023 3:29:00 PM
2-Butanone	ND	25.0		µg/L	1	3/8/2023 3:29:00 PM
2-Nitropropane	ND	50.0		µg/L	1	3/8/2023 3:29:00 PM
Acrylonitrile (2-propenenitrile)	ND	30.0		µg/L	1	3/8/2023 3:29:00 PM
Allyl chloride	ND	5.00		µg/L	1	3/8/2023 3:29:00 PM
Carbon disulfide	ND	5.00		µg/L	1	3/8/2023 3:29:00 PM
Chloroprene	ND	5.00		µg/L	1	3/8/2023 3:29:00 PM
Cyclohexanone	ND	5.00		µg/L	1	3/8/2023 3:29:00 PM
Ethyl Ether	ND	10.0		µg/L	1	3/8/2023 3:29:00 PM
Epichlorohydrin	ND	20.0		µg/L	1	3/8/2023 3:29:00 PM
ETBE	ND	5.00		µg/L	1	3/8/2023 3:29:00 PM
Ethyl acrylate	ND	5.00		µg/L	1	3/8/2023 3:29:00 PM
Ethyl methacrylate	ND	5.00		µg/L	1	3/8/2023 3:29:00 PM
Hexachloroethane	ND	5.00		µg/L	1	3/8/2023 3:29:00 PM
Diisopropyl ether (DIPE)	ND	5.00		µg/L	1	3/8/2023 3:29:00 PM
Methacrylonitrile	ND	5.00		µg/L	1	3/8/2023 3:29:00 PM
Methyl acrylate	ND	5.00		µg/L	1	3/8/2023 3:29:00 PM
Methyl methacrylate	ND	5.00		µg/L	1	3/8/2023 3:29:00 PM
Propionitrile	ND	5.00		µg/L	1	3/8/2023 3:29:00 PM
trans-1,4-Dichloro-2-butene	ND	5.00		µg/L	1	3/8/2023 3:29:00 PM
Vinyl acetate	ND	5.00		µg/L	1	3/8/2023 3:29:00 PM
1,2,3-Trimethylbenzene	ND	5.00	QC+	µg/L	1	3/8/2023 3:29:00 PM
Surr: 4-Bromofluorobenzene	96.0	70	-	130	%Rec	1 3/8/2023 3:29:00 PM
Surr: Dibromofluoromethane	101	70	-	130	%Rec	1 3/8/2023 3:29:00 PM
Surr: Toluene-d8	101	70	-	130	%Rec	1 3/8/2023 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		

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# Analytical Report

(consolidated)

WO#: 23030475

Date Reported: 3/17/2023

**CLIENT:** OhioEPA-DDAGW

**Collection Date:**

**Project:** Ohio EPA PWS-EP

**Lab ID:** 23030475-011

**Matrix:** DRINKING WATER

**Client Sample ID:** Trip Blank-3

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>VOC TENTATIVELY IDENTIFIED COMPOUNDS (TICS)</b>				<b>SW8260</b>	Analyst: ZDA	
TIC: 1-Chlorobutane	ND	J		µg/L	1	3/8/2023 3:29:00 PM
TIC: 1-Methylnaphthalene	ND	J		µg/L	1	3/8/2023 3:29:00 PM
TIC: 2-Butyloxyethyl acetate	ND	J		µg/L	1	3/8/2023 3:29:00 PM
TIC: 2-Ethylhexyl acrylate	ND	J		µg/L	1	3/8/2023 3:29:00 PM
TIC: Benzyl chloride	ND	J		µg/L	1	3/8/2023 3:29:00 PM
TIC: Bromoethane	ND	J		µg/L	1	3/8/2023 3:29:00 PM
TIC: Chloroacetonitrile	ND	J		µg/L	1	3/8/2023 3:29:00 PM
TIC: n-Butyl acrylate	ND	J		µg/L	1	3/8/2023 3:29:00 PM
TIC: Pentachloroethane	ND	J		µg/L	1	3/8/2023 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#: 23030475

Date Reported: 3/17/2023

**CLIENT:** OhioEPA-DDAGW

**Collection Date:**

**Project:** Ohio EPA PWS-EP

**Lab ID:** 23030475-012

**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	3/15/2023 9:57:00 AM
Ethylene dibromide	ND	0.0200		µg/L	1	3/15/2023 9:57:00 AM
<b>DRINKING WATER VOCS (EPA 524.2)</b>					<b>E524.2</b>	Analyst: <b>ALS</b>
<b>VOC-GC/MS (524.2)</b>						
1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	3/8/2023 4:09:00 PM
1,1,1-Trichloroethane	ND	0.500		µg/L	1	3/8/2023 4:09:00 PM
1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	3/8/2023 4:09:00 PM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	3/8/2023 4:09:00 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/8/2023 4:09:00 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	3/8/2023 4:09:00 PM
1,1-Dichloropropene	ND	0.500		µg/L	1	3/8/2023 4:09:00 PM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	3/8/2023 4:09:00 PM
1,2,3-Trichloropropane	ND	0.500		µg/L	1	3/8/2023 4:09:00 PM
1,2,4-Trichlorobenzene	ND	0.500		µg/L	1	3/8/2023 4:09:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	3/8/2023 4:09:00 PM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	3/8/2023 4:09:00 PM
1,2-Dichloroethane	ND	0.500		µg/L	1	3/8/2023 4:09:00 PM
1,2-Dichloropropane	ND	0.500		µg/L	1	3/8/2023 4:09:00 PM
1,3,5-Trimethylbenzene	ND	0.500		µg/L	1	3/8/2023 4:09:00 PM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	3/8/2023 4:09:00 PM
1,3-Dichloropropane	ND	0.500		µg/L	1	3/8/2023 4:09:00 PM
1,3-Dichloropropene, Total	ND	1.00		µg/L	1	3/8/2023 4:09:00 PM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	3/8/2023 4:09:00 PM
2-Chlorotoluene	ND	0.500		µg/L	1	3/8/2023 4:09:00 PM
2-Hexanone	ND	5.00		µg/L	1	3/8/2023 4:09:00 PM
4-Chlorotoluene	ND	0.500		µg/L	1	3/8/2023 4:09:00 PM
4-Methyl-2-pentanone	ND	5.00		µg/L	1	3/8/2023 4:09:00 PM
Acetone	ND	5.00		µg/L	1	3/8/2023 4:09:00 PM
Benzene	ND	0.500		µg/L	1	3/8/2023 4:09:00 PM
Bromobenzene	ND	0.500		µg/L	1	3/8/2023 4:09:00 PM
Bromodichloromethane	ND	0.500		µg/L	1	3/8/2023 4:09:00 PM
Bromoform	ND	0.500		µg/L	1	3/8/2023 4:09:00 PM
Bromomethane	ND	1.00		µg/L	1	3/8/2023 4:09:00 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#: 23030475

Date Reported: 3/17/2023

**CLIENT:** OhioEPA-DDAGW  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030475-012  
**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	3/8/2023 4:09:00 PM
Chlorobenzene	ND	0.500		µg/L	1	3/8/2023 4:09:00 PM
Chlorobromomethane	ND	0.500		µg/L	1	3/8/2023 4:09:00 PM
Chlorodibromomethane	ND	0.500		µg/L	1	3/8/2023 4:09:00 PM
Chloroethane	ND	0.500		µg/L	1	3/8/2023 4:09:00 PM
Chloroform	ND	0.500		µg/L	1	3/8/2023 4:09:00 PM
Chloromethane	ND	0.500		µg/L	1	3/8/2023 4:09:00 PM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	3/8/2023 4:09:00 PM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	3/8/2023 4:09:00 PM
Dibromomethane	ND	0.500		µg/L	1	3/8/2023 4:09:00 PM
Dichlorodifluoromethane	ND	0.500		µg/L	1	3/8/2023 4:09:00 PM
Ethylbenzene	ND	0.500		µg/L	1	3/8/2023 4:09:00 PM
Hexachloro-1,3-butadiene	ND	0.500		µg/L	1	3/8/2023 4:09:00 PM
Isopropylbenzene	ND	0.500		µg/L	1	3/8/2023 4:09:00 PM
m,p-Xylene	ND	0.500		µg/L	1	3/8/2023 4:09:00 PM
Methylene chloride	1.22	0.500		µg/L	1	3/8/2023 4:09:00 PM
MTBE	ND	0.500		µg/L	1	3/8/2023 4:09:00 PM
n-Butylbenzene	ND	0.500		µg/L	1	3/8/2023 4:09:00 PM
n-Propylbenzene	ND	0.500		µg/L	1	3/8/2023 4:09:00 PM
o-Xylene	ND	0.500		µg/L	1	3/8/2023 4:09:00 PM
p-Isopropyltoluene	ND	0.500		µg/L	1	3/8/2023 4:09:00 PM
sec-Butylbenzene	ND	0.500		µg/L	1	3/8/2023 4:09:00 PM
Styrene	ND	0.500		µg/L	1	3/8/2023 4:09:00 PM
Tert-amyl methyl ether	ND	0.500		µg/L	1	3/8/2023 4:09:00 PM
Tert-butyl Alcohol	ND	5.00		µg/L	1	3/8/2023 4:09:00 PM
tert-Butylbenzene	ND	0.500		µg/L	1	3/8/2023 4:09:00 PM
Tetrachloroethene	ND	0.500		µg/L	1	3/8/2023 4:09:00 PM
Toluene	ND	0.500		µg/L	1	3/8/2023 4:09:00 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	3/8/2023 4:09:00 PM
trans-1,3-Dichloropropene	ND	0.500		µg/L	1	3/8/2023 4:09:00 PM
Trichloroethene	ND	0.500		µg/L	1	3/8/2023 4:09:00 PM
Trichlorofluoromethane	ND	0.500		µg/L	1	3/8/2023 4:09:00 PM
Vinyl chloride	ND	0.500		µg/L	1	3/8/2023 4:09:00 PM
Xylenes, Total	ND	0.500		µg/L	1	3/8/2023 4:09:00 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#: 23030475

Date Reported: 3/17/2023

**CLIENT:** OhioEPA-DDAGW  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030475-012  
**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	98.3	70 - 130		%Rec	1	3/8/2023 4:09:00 PM
Surr: 4-Bromofluorobenzene	95.0	70 - 130		%Rec	1	3/8/2023 4:09:00 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	3/8/2023 3:53:00 PM
1,3-Butadiene	ND	5.00		µg/L	1	3/8/2023 3:53:00 PM
1,4-Dioxane	ND	25.0		µg/L	1	3/8/2023 3:53:00 PM
2,2-Dichloropropane	ND	5.00		µg/L	1	3/8/2023 3:53:00 PM
2-Butanone	ND	25.0		µg/L	1	3/8/2023 3:53:00 PM
2-Nitropropane	ND	50.0		µg/L	1	3/8/2023 3:53:00 PM
Acrylonitrile (2-propenenitrile)	ND	30.0		µg/L	1	3/8/2023 3:53:00 PM
Allyl chloride	ND	5.00		µg/L	1	3/8/2023 3:53:00 PM
Carbon disulfide	ND	5.00		µg/L	1	3/8/2023 3:53:00 PM
Chloroprene	ND	5.00		µg/L	1	3/8/2023 3:53:00 PM
Cyclohexanone	ND	5.00		µg/L	1	3/8/2023 3:53:00 PM
Ethyl Ether	ND	10.0		µg/L	1	3/8/2023 3:53:00 PM
Epichlorohydrin	ND	20.0		µg/L	1	3/8/2023 3:53:00 PM
ETBE	ND	5.00		µg/L	1	3/8/2023 3:53:00 PM
Ethyl acrylate	ND	5.00		µg/L	1	3/8/2023 3:53:00 PM
Ethyl methacrylate	ND	5.00		µg/L	1	3/8/2023 3:53:00 PM
Hexachloroethane	ND	5.00		µg/L	1	3/8/2023 3:53:00 PM
Diisopropyl ether (DIPE)	ND	5.00		µg/L	1	3/8/2023 3:53:00 PM
Methacrylonitrile	ND	5.00		µg/L	1	3/8/2023 3:53:00 PM
Methyl acrylate	ND	5.00		µg/L	1	3/8/2023 3:53:00 PM
Methyl methacrylate	ND	5.00		µg/L	1	3/8/2023 3:53:00 PM
Propionitrile	ND	5.00		µg/L	1	3/8/2023 3:53:00 PM
trans-1,4-Dichloro-2-butene	ND	5.00		µg/L	1	3/8/2023 3:53:00 PM
Vinyl acetate	ND	5.00		µg/L	1	3/8/2023 3:53:00 PM
1,2,3-Trimethylbenzene	ND	5.00	QC+	µg/L	1	3/8/2023 3:53:00 PM
Surr: 4-Bromofluorobenzene	95.9	70 - 130		%Rec	1	3/8/2023 3:53:00 PM
Surr: Dibromofluoromethane	103	70 - 130		%Rec	1	3/8/2023 3:53:00 PM
Surr: Toluene-d8	97.8	70 - 130		%Rec	1	3/8/2023 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
	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#: 23030475

Date Reported: 3/17/2023

**CLIENT:** OhioEPA-DDAGW

**Collection Date:**

**Project:** Ohio EPA PWS-EP

**Lab ID:** 23030475-012

**Matrix:** DRINKING WATER

**Client Sample ID:** Trip Blank-4

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>VOC TENTATIVELY IDENTIFIED COMPOUNDS (TICS)</b>		<b>SW8260</b>			Analyst: ZDA	
TIC: 1-Chlorobutane	ND	J		µg/L	1	3/8/2023 3:53:00 PM
TIC: 1-Methylnaphthalene	ND	J		µg/L	1	3/8/2023 3:53:00 PM
TIC: 2-Butyloxyethyl acetate	ND	J		µg/L	1	3/8/2023 3:53:00 PM
TIC: 2-Ethylhexyl acrylate	ND	J		µg/L	1	3/8/2023 3:53:00 PM
TIC: Benzyl chloride	ND	J		µg/L	1	3/8/2023 3:53:00 PM
TIC: Bromoethane	ND	J		µg/L	1	3/8/2023 3:53:00 PM
TIC: Chloroacetonitrile	ND	J		µg/L	1	3/8/2023 3:53:00 PM
TIC: n-Butyl acrylate	ND	J		µg/L	1	3/8/2023 3:53:00 PM
TIC: Pentachloroethane	ND	J		µg/L	1	3/8/2023 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
	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#: 23030475

Date Reported: 3/17/2023

**CLIENT:** OhioEPA-DDAGW  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030475-013  
**Client Sample ID:** Trip Blank-5

**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>
<b>EDB, DBCP, 123TCP BY GC (EPA 504.1)</b>						Analyst: <b>PGP</b>
Dibromochloropropane	ND	0.0400		µg/L	1	3/15/2023 10:17:00 AM
Ethylene dibromide	ND	0.0200		µg/L	1	3/15/2023 10:17:00 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	3/8/2023 4:35:00 PM
1,1,1-Trichloroethane	ND	0.500		µg/L	1	3/8/2023 4:35:00 PM
1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	3/8/2023 4:35:00 PM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	3/8/2023 4:35:00 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	3/8/2023 4:35:00 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	3/8/2023 4:35:00 PM
1,1-Dichloropropene	ND	0.500		µg/L	1	3/8/2023 4:35:00 PM
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	3/8/2023 4:35:00 PM
1,2,3-Trichloropropane	ND	0.500		µg/L	1	3/8/2023 4:35:00 PM
1,2,4-Trichlorobenzene	ND	0.500		µg/L	1	3/8/2023 4:35:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	3/8/2023 4:35:00 PM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	3/8/2023 4:35:00 PM
1,2-Dichloroethane	ND	0.500		µg/L	1	3/8/2023 4:35:00 PM
1,2-Dichloropropane	ND	0.500		µg/L	1	3/8/2023 4:35:00 PM
1,3,5-Trimethylbenzene	ND	0.500		µg/L	1	3/8/2023 4:35:00 PM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	3/8/2023 4:35:00 PM
1,3-Dichloropropane	ND	0.500		µg/L	1	3/8/2023 4:35:00 PM
1,3-Dichloropropene, Total	ND	1.00		µg/L	1	3/8/2023 4:35:00 PM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	3/8/2023 4:35:00 PM
2-Chlorotoluene	ND	0.500		µg/L	1	3/8/2023 4:35:00 PM
2-Hexanone	ND	5.00		µg/L	1	3/8/2023 4:35:00 PM
4-Chlorotoluene	ND	0.500		µg/L	1	3/8/2023 4:35:00 PM
4-Methyl-2-pentanone	ND	5.00		µg/L	1	3/8/2023 4:35:00 PM
Acetone	ND	5.00		µg/L	1	3/8/2023 4:35:00 PM
Benzene	ND	0.500		µg/L	1	3/8/2023 4:35:00 PM
Bromobenzene	ND	0.500		µg/L	1	3/8/2023 4:35:00 PM
Bromodichloromethane	ND	0.500		µg/L	1	3/8/2023 4:35:00 PM
Bromoform	ND	0.500		µg/L	1	3/8/2023 4:35:00 PM
Bromomethane	ND	1.00		µg/L	1	3/8/2023 4:35:00 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#: 23030475

Date Reported: 3/17/2023

**CLIENT:** OhioEPA-DDAGW  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030475-013  
**Client Sample ID:** Trip Blank-5

**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	3/8/2023 4:35:00 PM
Chlorobenzene	ND	0.500		µg/L	1	3/8/2023 4:35:00 PM
Chlorobromomethane	ND	0.500		µg/L	1	3/8/2023 4:35:00 PM
Chlorodibromomethane	ND	0.500		µg/L	1	3/8/2023 4:35:00 PM
Chloroethane	ND	0.500		µg/L	1	3/8/2023 4:35:00 PM
Chloroform	ND	0.500		µg/L	1	3/8/2023 4:35:00 PM
Chloromethane	ND	0.500		µg/L	1	3/8/2023 4:35:00 PM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	3/8/2023 4:35:00 PM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	3/8/2023 4:35:00 PM
Dibromomethane	ND	0.500		µg/L	1	3/8/2023 4:35:00 PM
Dichlorodifluoromethane	ND	0.500		µg/L	1	3/8/2023 4:35:00 PM
Ethylbenzene	ND	0.500		µg/L	1	3/8/2023 4:35:00 PM
Hexachloro-1,3-butadiene	ND	0.500		µg/L	1	3/8/2023 4:35:00 PM
Isopropylbenzene	ND	0.500		µg/L	1	3/8/2023 4:35:00 PM
m,p-Xylene	ND	0.500		µg/L	1	3/8/2023 4:35:00 PM
Methylene chloride	0.732	0.500		µg/L	1	3/8/2023 4:35:00 PM
MTBE	ND	0.500		µg/L	1	3/8/2023 4:35:00 PM
n-Butylbenzene	ND	0.500		µg/L	1	3/8/2023 4:35:00 PM
n-Propylbenzene	ND	0.500		µg/L	1	3/8/2023 4:35:00 PM
o-Xylene	ND	0.500		µg/L	1	3/8/2023 4:35:00 PM
p-Isopropyltoluene	ND	0.500		µg/L	1	3/8/2023 4:35:00 PM
sec-Butylbenzene	ND	0.500		µg/L	1	3/8/2023 4:35:00 PM
Styrene	ND	0.500		µg/L	1	3/8/2023 4:35:00 PM
Tert-amyl methyl ether	ND	0.500		µg/L	1	3/8/2023 4:35:00 PM
Tert-butyl Alcohol	ND	5.00		µg/L	1	3/8/2023 4:35:00 PM
tert-Butylbenzene	ND	0.500		µg/L	1	3/8/2023 4:35:00 PM
Tetrachloroethene	ND	0.500		µg/L	1	3/8/2023 4:35:00 PM
Toluene	ND	0.500		µg/L	1	3/8/2023 4:35:00 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	3/8/2023 4:35:00 PM
trans-1,3-Dichloropropene	ND	0.500		µg/L	1	3/8/2023 4:35:00 PM
Trichloroethene	ND	0.500		µg/L	1	3/8/2023 4:35:00 PM
Trichlorofluoromethane	ND	0.500		µg/L	1	3/8/2023 4:35:00 PM
Vinyl chloride	ND	0.500		µg/L	1	3/8/2023 4:35:00 PM
Xylenes, Total	ND	0.500		µg/L	1	3/8/2023 4:35:00 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#: 23030475

Date Reported: 3/17/2023

**CLIENT:** OhioEPA-DDAGW  
**Project:** Ohio EPA PWS-EP  
**Lab ID:** 23030475-013  
**Client Sample ID:** Trip Blank-5

**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	91.4	70	-	%Rec	1	3/8/2023 4:35:00 PM
Surr: 4-Bromofluorobenzene	100	70	-	%Rec	1	3/8/2023 4:35:00 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	3/8/2023 4:16:00 PM
1,3-Butadiene	ND	5.00		µg/L	1	3/8/2023 4:16:00 PM
1,4-Dioxane	ND	25.0		µg/L	1	3/8/2023 4:16:00 PM
2,2-Dichloropropane	ND	5.00		µg/L	1	3/8/2023 4:16:00 PM
2-Butanone	ND	25.0		µg/L	1	3/8/2023 4:16:00 PM
2-Nitropropane	ND	50.0		µg/L	1	3/8/2023 4:16:00 PM
Acrylonitrile (2-propenenitrile)	ND	30.0		µg/L	1	3/8/2023 4:16:00 PM
Allyl chloride	ND	5.00		µg/L	1	3/8/2023 4:16:00 PM
Carbon disulfide	ND	5.00		µg/L	1	3/8/2023 4:16:00 PM
Chloroprene	ND	5.00		µg/L	1	3/8/2023 4:16:00 PM
Cyclohexanone	ND	5.00		µg/L	1	3/8/2023 4:16:00 PM
Ethyl Ether	ND	10.0		µg/L	1	3/8/2023 4:16:00 PM
Epichlorohydrin	ND	20.0		µg/L	1	3/8/2023 4:16:00 PM
ETBE	ND	5.00		µg/L	1	3/8/2023 4:16:00 PM
Ethyl acrylate	ND	5.00		µg/L	1	3/8/2023 4:16:00 PM
Ethyl methacrylate	ND	5.00		µg/L	1	3/8/2023 4:16:00 PM
Hexachloroethane	ND	5.00		µg/L	1	3/8/2023 4:16:00 PM
Diisopropyl ether (DIPE)	ND	5.00		µg/L	1	3/8/2023 4:16:00 PM
Methacrylonitrile	ND	5.00		µg/L	1	3/8/2023 4:16:00 PM
Methyl acrylate	ND	5.00		µg/L	1	3/8/2023 4:16:00 PM
Methyl methacrylate	ND	5.00		µg/L	1	3/8/2023 4:16:00 PM
Propionitrile	ND	5.00		µg/L	1	3/8/2023 4:16:00 PM
trans-1,4-Dichloro-2-butene	ND	5.00		µg/L	1	3/8/2023 4:16:00 PM
Vinyl acetate	ND	5.00		µg/L	1	3/8/2023 4:16:00 PM
1,2,3-Trimethylbenzene	ND	5.00	QC+	µg/L	1	3/8/2023 4:16:00 PM
Surr: 4-Bromofluorobenzene	96.7	70	-	%Rec	1	3/8/2023 4:16:00 PM
Surr: Dibromofluoromethane	102	70	-	%Rec	1	3/8/2023 4:16:00 PM
Surr: Toluene-d8	102	70	-	%Rec	1	3/8/2023 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		

Original



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

# Analytical Report

(consolidated)

WO#: **23030475**

Date Reported: **3/17/2023**

**CLIENT:** OhioEPA-DDAGW

**Collection Date:**

**Project:** Ohio EPA PWS-EP

**Lab ID:** 23030475-013

**Matrix:** DRINKING WATER

**Client Sample ID:** Trip Blank-5

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>VOC TENTATIVELY IDENTIFIED COMPOUNDS (TICS)</b>		<b>SW8260</b>			Analyst: <b>ZDA</b>	
TIC: 1-Chlorobutane	ND	J		µg/L	1	3/8/2023 4:16:00 PM
TIC: 1-Methylnaphthalene	ND	J		µg/L	1	3/8/2023 4:16:00 PM
TIC: 2-Butyloxyethyl acetate	ND	J		µg/L	1	3/8/2023 4:16:00 PM
TIC: 2-Ethylhexyl acrylate	ND	J		µg/L	1	3/8/2023 4:16:00 PM
TIC: Benzyl chloride	ND	J		µg/L	1	3/8/2023 4:16:00 PM
TIC: Bromoethane	ND	J		µg/L	1	3/8/2023 4:16:00 PM
TIC: Chloroacetonitrile	ND	J		µg/L	1	3/8/2023 4:16:00 PM
TIC: n-Butyl acrylate	ND	J		µg/L	1	3/8/2023 4:16:00 PM
TIC: Pentachloroethane	ND	J		µg/L	1	3/8/2023 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#: 23030475  
17-Mar-23

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

**BatchID:** 63400

Sample ID: <b>MB-63400</b>	SampType: <b>MBLK</b>	TestCode: <b>svoc-mstr_n</b>	Units: <b>µg/L</b>	Prep Date: <b>3/9/2023</b>	RunNo: <b>159932</b>						
Client ID: <b>PBW</b>	Batch ID: <b>63400</b>	TestNo: <b>SW8270</b>	<b>SW3510C</b>	Analysis Date: <b>3/15/2023</b>	SeqNo: <b>4250167</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						

**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#: 23030475

17-Mar-23

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

**BatchID:** 63400

Sample ID: <b>MB-63400</b>	SampType: <b>MBLK</b>	TestCode: <b>SVOC-MSTR</b>	Units: <b>µg/L</b>	Prep Date: <b>3/9/2023</b>	RunNo: <b>159879</b>						
Client ID: <b>PBW</b>	Batch ID: <b>63400</b>	TestNo: <b>SW8270</b>	<b>SW3510C</b>	Analysis Date: <b>3/10/2023</b>	SeqNo: <b>4249035</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,6-Dinitrotoluene	ND	5.00		0	0						
2-Methylnaphthalene	ND	5.00		0	0						
3,3'-Dichlorobenzidine	ND	20.0		0	0						
4-Nitrophenol	ND	5.00		0	0						
Acenaphthene	ND	5.00		0	0						
Bis(2-chloroethyl) ether	ND	5.00		0	0						
Di-n-octyl phthalate	ND	5.00		0	0						
Fluoranthene	ND	5.00		0	0						
Naphthalene	ND	5.00		0	0						
Phenol	ND	20.0		0	0						
3&4-Methylphenol	ND	5.00		0	0						
Surr: 2-Fluorophenol	0.0300		0.05000		60.0	20	130				
Surr: Phenol-d6	0.0188		0.05000		37.5	20	130				
Surr: Nitrobenzene-d5	0.0413		0.05000		82.6	27.4	130				
Surr: 2,4,6-Tribromophenol	0.0449		0.05000		89.7	54.3	133				
Surr: 2-Fluorobiphenyl	0.0438		0.05000		87.6	25.6	130				
Surr: p-Terphenyl-d14	0.0530		0.05000		106	20	181				

Sample ID: <b>LCS-63400</b>	SampType: <b>LCS</b>	TestCode: <b>SVOC-MSTR</b>	Units: <b>µg/L</b>	Prep Date: <b>3/9/2023</b>	RunNo: <b>159879</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>63400</b>	TestNo: <b>SW8270</b>	<b>SW3510C</b>	Analysis Date: <b>3/10/2023</b>	SeqNo: <b>4249036</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,6-Dinitrotoluene	42.0	5.00	40.0	0	105	64.9	130				
2-Methylnaphthalene	38.5	5.00	40.0	0	96.4	32.8	130				
3,3'-Dichlorobenzidine	76.9	20.0	80.0	0	96.1	10	281				

**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#: 23030475  
 17-Mar-23

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

**BatchID:** 63400

Sample ID: LCS-63400	SampType: LCS	TestCode: SVOC-MSTR	Units: µg/L	Prep Date: 3/9/2023	RunNo: 159879						
Client ID: LCSW	Batch ID: 63400	TestNo: SW8270	SW3510C	Analysis Date: 3/10/2023	SeqNo: 4249036						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Nitrophenol	24.7	5.00	40.0	0	61.8	25.1	130				
Acenaphthene	41.6	5.00	40.0	0	104	43.7	130				
Bis(2-chloroethyl) ether	34.3	5.00	40.0	0	85.8	15.6	130				
Di-n-octyl phthalate	42.4	5.00	40.0	0	106	70	140				
Fluoranthene	40.6	5.00	40.0	0	101	64.9	130				
Naphthalene	37.7	5.00	40.0	0	94.2	27.2	130				
Phenol	18.8	20.0	40.0	0	46.9	10	130				J
3&4-Methylphenol	35.2	5.00	40.0	0	88.0	29.7	130				
Surr: 2-Fluorophenol	0.0274		0.05000		54.7	20	130				
Surr: Phenol-d6	0.0176		0.05000		35.3	20	130				
Surr: Nitrobenzene-d5	0.0374		0.05000		74.7	27.4	130				
Surr: 2,4,6-Tribromophenol	0.0432		0.05000		86.3	54.3	133				
Surr: 2-Fluorobiphenyl	0.0408		0.05000		81.7	25.6	130				
Surr: p-Terphenyl-d14	0.0485		0.05000		97.1	20	181				

Sample ID: LCSD-63400	SampType: LCSD	TestCode: SVOC-MSTR	Units: µg/L	Prep Date: 3/9/2023	RunNo: 159879						
Client ID: LCSS02	Batch ID: 63400	TestNo: SW8270	SW3510C	Analysis Date: 3/10/2023	SeqNo: 4249037						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,6-Dinitrotoluene	41.9	5.00	40.0	0	105	64.9	130	42.0	0.262	30	
2-Methylnaphthalene	39.0	5.00	40.0	0	97.6	32.8	130	38.5	1.24	30	
3,3'-Dichlorobenzidine	80.5	20.0	80.0	0	101	10	281	76.9	4.52	30	
4-Nitrophenol	25.1	5.00	40.0	0	62.8	25.1	130	24.7	1.57	30	
Acenaphthene	41.9	5.00	40.0	0	105	43.7	130	41.6	0.838	30	
Bis(2-chloroethyl) ether	34.1	5.00	40.0	0	85.2	15.6	130	34.3	0.673	30	

**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#: 23030475  
 17-Mar-23

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

**BatchID:** 63400

Sample ID: <b>LCSD-63400</b>	SampType: <b>LCSD</b>	TestCode: <b>SVOC-MSTR</b>	Units: <b>µg/L</b>	Prep Date: <b>3/9/2023</b>	RunNo: <b>159879</b>						
Client ID: <b>LCSS02</b>	Batch ID: <b>63400</b>	TestNo: <b>SW8270</b>	<b>SW3510C</b>	Analysis Date: <b>3/10/2023</b>	SeqNo: <b>4249037</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Di-n-octyl phthalate	43.6	5.00	40.0	0	109	70	140	42.4	2.70	30	
Fluoranthene	40.8	5.00	40.0	0	102	64.9	130	40.6	0.418	30	
Naphthalene	38.4	5.00	40.0	0	96.0	27.2	130	37.7	1.95	30	
Phenol	18.5	20.0	40.0	0	46.1	10	130	18.8	1.61	30	J
3&4-Methylphenol	34.6	5.00	40.0	0	86.6	29.7	130	35.2	1.52	30	
Surr: 2-Fluorophenol	0.0268		0.05000		53.6	20	130		0		
Surr: Phenol-d6	0.0174		0.05000		34.7	20	130		0		
Surr: Nitrobenzene-d5	0.0390		0.05000		78.0	27.4	130		0		
Surr: 2,4,6-Tribromophenol	0.0430		0.05000		86.1	54.3	133		0		
Surr: 2-Fluorobiphenyl	0.0425		0.05000		85.0	25.6	130		0		
Surr: p-Terphenyl-d14	0.0480		0.05000		96.0	20	181		0		

<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#: 23030475  
 17-Mar-23

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

**BatchID:** 63400

Sample ID: <b>MB-63400</b>	SampType: <b>MBLK</b>	TestCode: <b>SVOC-MSTR</b>	Units: <b>µg/L</b>	Prep Date: <b>3/9/2023</b>	RunNo: <b>159645</b>						
Client ID: <b>PBW</b>	Batch ID: <b>63400</b>	TestNo: <b>SW8270</b>	<b>SW3510C</b>	Analysis Date: <b>3/10/2023</b>	SeqNo: <b>4243114</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,6-Dinitrotoluene	ND	5.00		0	0						
2-Methylnaphthalene	ND	5.00		0	0						
3,3'-Dichlorobenzidine	ND	20.0		0	0						
4-Nitrophenol	ND	5.00		0	0						
Acenaphthene	ND	5.00		0	0						
Bis(2-chloroethyl) ether	ND	5.00		0	0						
Di-n-octyl phthalate	ND	5.00		0	0						
Fluoranthene	ND	5.00		0	0						
Naphthalene	ND	5.00		0	0						
Phenol	ND	20.0		0	0						
3&4-Methylphenol	ND	5.00		0	0						
Surr: 2-Fluorophenol	0.0300		0.05000		60.0	20	130				
Surr: Phenol-d6	0.0188		0.05000		37.5	20	130				
Surr: Nitrobenzene-d5	0.0413		0.05000		82.6	27.4	130				
Surr: 2,4,6-Tribromophenol	0.0449		0.05000		89.7	54.3	133				
Surr: 2-Fluorobiphenyl	0.0438		0.05000		87.6	25.6	130				
Surr: p-Terphenyl-d14	0.0530		0.05000		106	20	181				

Sample ID: <b>LCS-63400</b>	SampType: <b>LCS</b>	TestCode: <b>SVOC-MSTR</b>	Units: <b>µg/L</b>	Prep Date: <b>3/9/2023</b>	RunNo: <b>159645</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>63400</b>	TestNo: <b>SW8270</b>	<b>SW3510C</b>	Analysis Date: <b>3/10/2023</b>	SeqNo: <b>4243115</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,6-Dinitrotoluene	42.0	5.00	40.0	0	105	64.9	130				
2-Methylnaphthalene	38.5	5.00	40.0	0	96.4	32.8	130				
3,3'-Dichlorobenzidine	76.9	20.0	80.0	0	96.1	10	281				

**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#: 23030475

17-Mar-23

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

**BatchID:** 63400

Sample ID: <b>LCS-63400</b>	SampType: <b>LCS</b>	TestCode: <b>SVOC-MSTR</b>	Units: <b>µg/L</b>	Prep Date: <b>3/9/2023</b>	RunNo: <b>159645</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>63400</b>	TestNo: <b>SW8270</b>	<b>SW3510C</b>	Analysis Date: <b>3/10/2023</b>	SeqNo: <b>4243115</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Nitrophenol	24.7	5.00	40.0	0	61.8	25.1	130				
Acenaphthene	41.6	5.00	40.0	0	104	43.7	130				
Bis(2-chloroethyl) ether	34.3	5.00	40.0	0	85.8	15.6	130				
Di-n-octyl phthalate	42.4	5.00	40.0	0	106	70	140				
Fluoranthene	40.6	5.00	40.0	0	101	64.9	130				
Naphthalene	37.7	5.00	40.0	0	94.2	27.2	130				
Phenol	18.8	20.0	40.0	0	46.9	10	130				J
3&4-Methylphenol	35.2	5.00	40.0	0	88.0	29.7	130				
Surr: 2-Fluorophenol	0.0274		0.05000		54.7	20	130				
Surr: Phenol-d6	0.0176		0.05000		35.3	20	130				
Surr: Nitrobenzene-d5	0.0374		0.05000		74.7	27.4	130				
Surr: 2,4,6-Tribromophenol	0.0432		0.05000		86.3	54.3	133				
Surr: 2-Fluorobiphenyl	0.0408		0.05000		81.7	25.6	130				
Surr: p-Terphenyl-d14	0.0485		0.05000		97.1	20	181				

Sample ID: <b>LCSD-63400</b>	SampType: <b>LCSD</b>	TestCode: <b>SVOC-MSTR</b>	Units: <b>µg/L</b>	Prep Date: <b>3/9/2023</b>	RunNo: <b>159645</b>						
Client ID: <b>LCSS02</b>	Batch ID: <b>63400</b>	TestNo: <b>SW8270</b>	<b>SW3510C</b>	Analysis Date: <b>3/10/2023</b>	SeqNo: <b>4243116</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,6-Dinitrotoluene	41.9	5.00	40.0	0	105	64.9	130	42.0	0.262	30	
2-Methylnaphthalene	39.0	5.00	40.0	0	97.6	32.8	130	38.5	1.24	30	
3,3'-Dichlorobenzidine	80.5	20.0	80.0	0	101	10	281	76.9	4.52	30	
4-Nitrophenol	25.1	5.00	40.0	0	62.8	25.1	130	24.7	1.57	30	
Acenaphthene	41.9	5.00	40.0	0	105	43.7	130	41.6	0.838	30	
Bis(2-chloroethyl) ether	34.1	5.00	40.0	0	85.2	15.6	130	34.3	0.673	30	

**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#: 23030475  
 17-Mar-23

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

**BatchID:** 63400

Sample ID: <b>LCSD-63400</b>	SampType: <b>LCSD</b>	TestCode: <b>SVOC-MSTR</b>	Units: <b>µg/L</b>	Prep Date: <b>3/9/2023</b>	RunNo: <b>159645</b>						
Client ID: <b>LCSS02</b>	Batch ID: <b>63400</b>	TestNo: <b>SW8270</b>	<b>SW3510C</b>	Analysis Date: <b>3/10/2023</b>	SeqNo: <b>4243116</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Di-n-octyl phthalate	43.6	5.00	40.0	0	109	70	140	42.4	2.70	30	
Fluoranthene	40.8	5.00	40.0	0	102	64.9	130	40.6	0.418	30	
Naphthalene	38.4	5.00	40.0	0	96.0	27.2	130	37.7	1.95	30	
Phenol	18.5	20.0	40.0	0	46.1	10	130	18.8	1.61	30	J
3&4-Methylphenol	34.6	5.00	40.0	0	86.6	29.7	130	35.2	1.52	30	
Surr: 2-Fluorophenol	0.0268		0.05000		53.6	20	130		0		
Surr: Phenol-d6	0.0174		0.05000		34.7	20	130		0		
Surr: Nitrobenzene-d5	0.0390		0.05000		78.0	27.4	130		0		
Surr: 2,4,6-Tribromophenol	0.0430		0.05000		86.1	54.3	133		0		
Surr: 2-Fluorobiphenyl	0.0425		0.05000		85.0	25.6	130		0		
Surr: p-Terphenyl-d14	0.0480		0.05000		96.0	20	181		0		

<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#: 23030475

17-Mar-23

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

**BatchID:** 63524

Sample ID: <b>MB-63524</b>	SampType: <b>MBLK</b>	TestCode: <b>SVOC_DW(50</b>	Units: <b>µg/L</b>	Prep Date: <b>3/14/2023</b>	RunNo: <b>159970</b>
Client ID: <b>PBW</b>	Batch ID: <b>63524</b>	TestNo: <b>E504.1</b>	<b>E504.1</b>	Analysis Date: <b>3/14/2023</b>	SeqNo: <b>4251537</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-63524</b>	SampType: <b>LCS</b>	TestCode: <b>SVOC_DW(50</b>	Units: <b>µg/L</b>	Prep Date: <b>3/14/2023</b>	RunNo: <b>159970</b>
Client ID: <b>LCSW</b>	Batch ID: <b>63524</b>	TestNo: <b>E504.1</b>	<b>E504.1</b>	Analysis Date: <b>3/14/2023</b>	SeqNo: <b>4251538</b>
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Dibromochloropropane	0.540	0.0200	0.5000	0	108	70	130			
Ethylene dibromide	0.506	0.0100	0.5000	0	101	70	130			

Sample ID: <b>LCSD-63524</b>	SampType: <b>LCSD</b>	TestCode: <b>SVOC_DW(50</b>	Units: <b>µg/L</b>	Prep Date: <b>3/14/2023</b>	RunNo: <b>159970</b>
Client ID: <b>LCSS02</b>	Batch ID: <b>63524</b>	TestNo: <b>E504.1</b>	<b>E504.1</b>	Analysis Date: <b>3/14/2023</b>	SeqNo: <b>4251539</b>
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Dibromochloropropane	0.540	0.0200	0.5000	0	108	70	130	0.5400	0	20
Ethylene dibromide	0.533	0.0100	0.5000	0	107	70	130	0.5060	5.20	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#: 23030475

17-Mar-23

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

**BatchID:** 63525

Sample ID: <b>MB-63525</b>	SampType: <b>MBLK</b>	TestCode: <b>SVOC_DW(50</b>	Units: <b>µg/L</b>	Prep Date: <b>3/14/2023</b>	RunNo: <b>159970</b>
Client ID: <b>PBW</b>	Batch ID: <b>63525</b>	TestNo: <b>E504.1</b>	<b>E504.1</b>	Analysis Date: <b>3/15/2023</b>	SeqNo: <b>4251564</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-63525</b>	SampType: <b>LCS</b>	TestCode: <b>SVOC_DW(50</b>	Units: <b>µg/L</b>	Prep Date: <b>3/14/2023</b>	RunNo: <b>159970</b>
Client ID: <b>LCSW</b>	Batch ID: <b>63525</b>	TestNo: <b>E504.1</b>	<b>E504.1</b>	Analysis Date: <b>3/15/2023</b>	SeqNo: <b>4251565</b>
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Dibromochloropropane	0.555	0.0200	0.5000	0	111	70	130			
Ethylene dibromide	0.543	0.0100	0.5000	0	109	70	130			

Sample ID: <b>LCSD-63525</b>	SampType: <b>LCSD</b>	TestCode: <b>SVOC_DW(50</b>	Units: <b>µg/L</b>	Prep Date: <b>3/14/2023</b>	RunNo: <b>159970</b>
Client ID: <b>LCSS02</b>	Batch ID: <b>63525</b>	TestNo: <b>E504.1</b>	<b>E504.1</b>	Analysis Date: <b>3/15/2023</b>	SeqNo: <b>4251566</b>
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Dibromochloropropane	0.561	0.0200	0.5000	0	112	70	130	0.5550	1.08	20
Ethylene dibromide	0.518	0.0100	0.5000	0	104	70	130	0.5430	4.71	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#: 23030475  
 17-Mar-23

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

**BatchID:** 63551

Sample ID: <b>MB-63551</b>	SampType: <b>MBLK</b>	TestCode: <b>SVOC_DW(52</b> Units: <b>µg/L</b>	Prep Date: <b>3/15/2023</b>	RunNo: <b>159902</b>							
Client ID: <b>PBW</b>	Batch ID: <b>63551</b>	TestNo: <b>E525 525</b>	Analysis Date: <b>3/15/2023</b>	SeqNo: <b>4252180</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	3.83		5.000		76.6	70	130				
Surr: Benzo(a)pyrene-d12	4.18		5.000		83.6	70	130				
Surr: Triphenyl phosphate	5.54		5.000		111	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				

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# QC SUMMARY REPORT

WO#: 23030475

17-Mar-23

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

**BatchID:** 63551

Sample ID: LCS-63551	SampType: LCS	TestCode: SVOC_DW(52	Units: µg/L	Prep Date: 3/15/2023	RunNo: 159902						
Client ID: LCSW	Batch ID: 63551	TestNo: E525	525	Analysis Date: 3/15/2023	SeqNo: 4252181						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4-Dinitrotoluene	4.33	0.200	5.000	0	86.6	70	130				
Acenaphthylene	3.99	0.100	5.000	0	79.8	70	130				
Anthracene	4.25	0.100	5.000	0	85.0	70	130				
Benzo(a)anthracene	3.98	0.100	5.000	0	79.6	70	130				
Benzo(a)pyrene	3.38	0.100	5.000	0	67.6	70	130				S
Benzo(b)fluoranthene	3.38	0.100	5.000	0	67.6	70	130				S
Benzo(g,h,i)perylene	3.29	0.100	5.000	0	65.8	70	130				S
Benzo(k)fluoranthene	3.64	0.100	5.000	0	72.8	70	130				
Bis(2-ethylhexyl) phthalate	3.07	0.200	5.000	0	61.4	70	130				S
Butyl benzyl phthalate	4.21	0.200	5.000	0	84.2	70	130				
Chrysene	4.05	0.100	5.000	0	81.0	70	130				
Dibenz(a,h)anthracene	3.25	0.100	5.000	0	65.0	70	130				S
Diethyl phthalate	4.41	0.100	5.000	0	88.2	70	130				
Dimethyl phthalate	4.39	0.200	5.000	0	87.8	70	130				
Di-n-butyl phthalate	4.42	0.200	5.000	0	88.4	70	130				
Fluorene	4.26	0.100	5.000	0	85.2	70	130				
Hexachlorobenzene	4.11	0.100	5.000	0	82.2	70	130				
Hexachlorocyclopentadiene	3.74	0.100	5.000	0	74.8	70	130				
Indeno(1,2,3-cd)pyrene	3.08	1.00	5.000	0	61.6	70	130				S
Isophorone	3.57	0.200	5.000	0	71.4	70	130				
Phenanthrene	4.26	0.100	5.000	0	85.2	70	130				
Pyrene	4.25	0.100	5.000	0	85.0	70	130				
Surr: 1,3-Dimethyl-2-nitrobe...	3.30		5.000		66.0	70	130				S
Surr: Benzo(a)pyrene-d12	3.47		5.000		69.4	70	130				Sm
Surr: Triphenyl phosphate	5.17		5.000		103	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#: 23030475

17-Mar-23

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

**BatchID:** 63551

Sample ID: LCSD-63551	SampType: LCSD	TestCode: SVOC_DW(52	Units: µg/L	Prep Date: 3/15/2023	RunNo: 159902						
Client ID: LCSS02	Batch ID: 63551	TestNo: E525	525	Analysis Date: 3/15/2023	SeqNo: 4252182						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4-Dinitrotoluene	4.55	0.200	5.000	0	91.0	70	130	4.330	4.95	30	
Acenaphthylene	4.28	0.100	5.000	0	85.6	70	130	3.990	7.01	30	
Anthracene	4.55	0.100	5.000	0	91.0	70	130	4.250	6.82	30	
Benzo(a)anthracene	3.99	0.100	5.000	0	79.8	70	130	3.980	0.251	30	
Benzo(a)pyrene	3.19	0.100	5.000	0	63.8	70	130	3.380	5.78	30	S
Benzo(b)fluoranthene	3.10	0.100	5.000	0	62.0	70	130	3.380	8.64	30	S
Benzo(g,h,i)perylene	3.01	0.100	5.000	0	60.2	70	130	3.290	8.89	30	S
Benzo(k)fluoranthene	3.55	0.100	5.000	0	71.0	70	130	3.640	2.50	30	
Bis(2-ethylhexyl) phthalate	2.80	0.200	5.000	0	56.0	70	130	3.070	9.20	30	S
Butyl benzyl phthalate	4.41	0.200	5.000	0	88.2	70	130	4.210	4.64	30	
Chrysene	4.03	0.100	5.000	0	80.6	70	130	4.050	0.495	30	
Dibenz(a,h)anthracene	2.95	0.100	5.000	0	59.0	70	130	3.250	9.68	30	S
Diethyl phthalate	4.66	0.100	5.000	0	93.2	70	130	4.410	5.51	30	
Dimethyl phthalate	4.67	0.200	5.000	0	93.4	70	130	4.390	6.18	30	
Di-n-butyl phthalate	4.59	0.200	5.000	0	91.8	70	130	4.420	3.77	30	
Fluorene	4.55	0.100	5.000	0	91.0	70	130	4.260	6.58	30	
Hexachlorobenzene	4.38	0.100	5.000	0	87.6	70	130	4.110	6.36	30	
Hexachlorocyclopentadiene	4.10	0.100	5.000	0	82.0	70	130	3.740	9.18	30	
Indeno(1,2,3-cd)pyrene	2.77	1.00	5.000	0	55.4	70	130	3.080	10.6	30	S
Isophorone	3.72	0.200	5.000	0	74.4	70	130	3.570	4.12	30	
Phenanthrene	4.49	0.100	5.000	0	89.8	70	130	4.260	5.26	30	
Pyrene	4.50	0.100	5.000	0	90.0	70	130	4.250	5.71	30	
Surr: 1,3-Dimethyl-2-nitrobe...	3.42		5.000		68.4	70	130		0	30	Sm
Surr: Benzo(a)pyrene-d12	3.10		5.000		62.0	70	130		0	30	S
Surr: Triphenyl phosphate	5.19		5.000		104	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

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# QC SUMMARY REPORT

WO#: 23030475

17-Mar-23

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

**BatchID:** R159501

Sample ID: <b>MBLK</b>	SampType: <b>MBLK</b>	TestCode: <b>GLYCOL_NP</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>159501</b>						
Client ID: <b>PBW</b>	Batch ID: <b>R159501</b>	TestNo: <b>SW8015C</b>		Analysis Date: <b>3/8/2023</b>	SeqNo: <b>4239895</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>159501</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>R159501</b>	TestNo: <b>SW8015C</b>		Analysis Date: <b>3/8/2023</b>	SeqNo: <b>4239897</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diethylene glycol	540000	10000	500000	0	108	70	130				
Ethylene glycol	531000	10000	500000	0	106	70	130				
Propylene glycol	530000	10000	500000	0	106	51.7	139				
Triethylene glycol	535000	10000	500000	0	107	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>159501</b>						
Client ID: <b>LCSS02</b>	Batch ID: <b>R159501</b>	TestNo: <b>SW8015C</b>		Analysis Date: <b>3/8/2023</b>	SeqNo: <b>4239898</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diethylene glycol	555000	10000	500000	0	111	70	130	540000	2.74	20	
Ethylene glycol	555000	10000	500000	0	111	70	130	531000	4.36	20	m
Propylene glycol	545000	10000	500000	0	109	51.7	139	530000	2.80	20	m
Triethylene glycol	549000	10000	500000	0	110	70	130	535000	2.62	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#: 23030475

17-Mar-23

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

**BatchID:** R159515

Sample ID: LCS	SampType: LCS	TestCode: VOC_DW(524	Units: µg/L	Prep Date:	RunNo: 159515						
Client ID: LCSW	Batch ID: R159515	TestNo: E524.2	Analysis Date: 3/8/2023	SeqNo: 4240140							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	4.64	0.500	5.000	0	92.7	70	130				
1,1,1-Trichloroethane	4.62	0.500	5.000	0	92.4	70	130				
1,1,2,2-Tetrachloroethane	4.78	0.500	5.000	0	95.6	70	130				
1,1,2-Trichloroethane	4.88	0.500	5.000	0	97.7	70	130				
1,1-Dichloroethane	4.82	0.500	5.000	0	96.5	70	130				
1,1-Dichloroethene	4.98	0.500	5.000	0	99.6	70	130				
1,1-Dichloropropene	4.58	0.500	5.000	0	91.6	70	130				
1,2,3-Trichlorobenzene	4.68	0.500	5.000	0	93.5	70	130				
1,2,3-Trichloropropane	4.56	0.500	5.000	0	91.2	70	130				
1,2,4-Trichlorobenzene	4.66	0.500	5.000	0	93.3	70	130				
1,2,4-Trimethylbenzene	4.45	0.500	5.000	0	89.0	70	130				
1,2-Dichlorobenzene	4.75	0.500	5.000	0	95.1	70	130				
1,2-Dichloroethane	4.69	0.500	5.000	0	93.9	70	130				
1,2-Dichloropropane	4.54	0.500	5.000	0	90.8	70	130				
1,3,5-Trimethylbenzene	4.53	0.500	5.000	0	90.6	70	130				
1,3-Dichlorobenzene	5.06	0.500	5.000	0	101	70	130				
1,3-Dichloropropane	4.95	0.500	5.000	0	99.0	70	130				
1,4-Dichlorobenzene	5.04	0.500	5.000	0	101	70	130				
2-Chlorotoluene	4.65	0.500	5.000	0	93.0	70	130				
4-Chlorotoluene	4.74	0.500	5.000	0	94.9	70	130				
Benzene	4.65	0.500	5.000	0	93.0	70	130				
Bromobenzene	4.84	0.500	5.000	0	96.7	70	130				
Bromodichloromethane	4.43	0.500	5.000	0	88.6	70	130				
Bromoform	4.27	0.500	5.000	0	85.4	70	130				
Bromomethane	4.36	1.00	5.000	0	87.3	70	130				
Carbon tetrachloride	4.69	0.500	5.000	0	93.7	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#: 23030475

17-Mar-23

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

**BatchID:** R159515

Sample ID: LCS	SampType: LCS	TestCode: VOC_DW(524	Units: µg/L	Prep Date:	RunNo: 159515						
Client ID: LCSW	Batch ID: R159515	TestNo: E524.2	Analysis Date: 3/8/2023	SeqNo: 4240140							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	4.80	0.500	5.000	0	96.0	70	130				
Chlorobromomethane	4.52	0.500	5.000	0	90.3	70	130				
Chlorodibromomethane	4.46	0.500	5.000	0	89.1	70	130				
Chloroethane	4.80	0.500	5.000	0	95.9	70	130				
Chloroform	4.51	0.500	5.000	0	90.3	70	130				
Chloromethane	4.38	0.500	5.000	0	87.7	70	130				
cis-1,2-Dichloroethene	4.64	0.500	5.000	0	92.7	70	130				
cis-1,3-Dichloropropene	4.45	0.500	5.000	0	89.0	70	130				
Dibromomethane	4.73	0.500	5.000	0	94.6	70	130				
Dichlorodifluoromethane	4.44	0.500	5.000	0	88.8	70	130				
Ethylbenzene	4.66	0.500	5.000	0	93.3	70	130				
Hexachloro-1,3-butadiene	4.67	0.500	5.000	0	93.5	70	130				
Isopropylbenzene	4.74	0.500	5.000	0	94.8	70	130				
m,p-Xylene	8.84	0.500	10.00	0	88.4	70	130				
Methylene chloride	4.80	0.500	5.000	0	96.1	70	130				
MTBE	4.42	0.500	5.000	0	88.4	70	130				
n-Butylbenzene	4.71	0.500	5.000	0	94.2	70	130				
n-Propylbenzene	4.63	0.500	5.000	0	92.6	70	130				
o-Xylene	4.58	0.500	5.000	0	91.7	70	130				
p-Isopropyltoluene	4.46	0.500	5.000	0	89.1	70	130				
sec-Butylbenzene	4.63	0.500	5.000	0	92.7	70	130				
Styrene	4.73	0.500	5.000	0	94.5	70	130				
tert-Butylbenzene	4.56	0.500	5.000	0	91.1	70	130				
Tetrachloroethene	4.71	0.500	5.000	0	94.2	70	130				
Toluene	4.70	0.500	5.000	0	94.0	70	130				
trans-1,2-Dichloroethene	4.82	0.500	5.000	0	96.3	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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 Website: <http://www.settek.com>

# QC SUMMARY REPORT

WO#: 23030475

17-Mar-23

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

**BatchID:** R159515

Sample ID: <b>LCS</b>	SampType: <b>LCS</b>	TestCode: <b>VOC_DW(524)</b> Units: <b>µg/L</b>	Prep Date:	RunNo: <b>159515</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>R159515</b>	TestNo: <b>E524.2</b>	Analysis Date: <b>3/8/2023</b>	SeqNo: <b>4240140</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,3-Dichloropropene	4.39	0.500	5.000	0	87.8	70	130				
Trichloroethene	4.80	0.500	5.000	0	96.1	70	130				
Trichlorofluoromethane	4.45	0.500	5.000	0	88.9	70	130				
Vinyl chloride	4.66	0.500	5.000	0	93.2	70	130				
Xylenes, Total	13.4	0.500	15.00	0	89.5	70	130				
Surr: 1,2-Dichlorobenzene-d4	10.2		10.00		102	70	130				
Surr: 4-Bromofluorobenzene	10.4		10.00		104	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>159515</b>							
Client ID: <b>PBW</b>	Batch ID: <b>R159515</b>	TestNo: <b>E524.2</b>	Analysis Date: <b>3/8/2023</b>	SeqNo: <b>4240141</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-Dichloroethene	ND	0.500									
1,1-Dichloropropene	ND	0.500									
1,2,3-Trichlorobenzene	ND	0.500									
1,2,3-Trichloropropane	ND	0.500									
1,2,4-Trichlorobenzene	ND	0.500									
1,2,4-Trimethylbenzene	ND	0.500									
1,2-Dichlorobenzene	ND	0.500									
1,2-Dichloroethane	ND	0.500									

**Qualifiers:**

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	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#: 23030475  
 17-Mar-23

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

**BatchID:** R159515

Sample ID: <b>MB</b>	SampType: <b>MBLK</b>	TestCode: <b>VOC_DW(524</b> Units: <b>µg/L</b>	Prep Date:	RunNo: <b>159515</b>							
Client ID: <b>PBW</b>	Batch ID: <b>R159515</b>	TestNo: <b>E524.2</b>	Analysis Date: <b>3/8/2023</b>	SeqNo: <b>4240141</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloropropane	ND	0.500									
1,3,5-Trimethylbenzene	ND	0.500									
1,3-Dichlorobenzene	ND	0.500									
1,3-Dichloropropane	ND	0.500									
1,3-Dichloropropene, Total	ND	1.00									
1,4-Dichlorobenzene	ND	0.500									
2-Chlorotoluene	ND	0.500									
4-Chlorotoluene	ND	0.500									
Benzene	ND	0.500									
Bromobenzene	ND	0.500									
Bromodichloromethane	ND	0.500									
Bromoform	ND	0.500									
Bromomethane	ND	1.00									
Carbon tetrachloride	ND	0.500									
Chlorobenzene	ND	0.500									
Chlorobromomethane	ND	0.500									
Chlorodibromomethane	ND	0.500									
Chloroethane	ND	0.500									
Chloroform	ND	0.500									
Chloromethane	ND	0.500									
cis-1,2-Dichloroethene	ND	0.500									
cis-1,3-Dichloropropene	ND	0.500									
Dibromomethane	ND	0.500									
Dichlorodifluoromethane	ND	0.500									
Ethylbenzene	ND	0.500									
Hexachloro-1,3-butadiene	ND	0.500									

**Qualifiers:**

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	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#: 23030475

17-Mar-23

**Client:** OhioEPA-DDAGW

**Project:** Ohio EPA PWS-EP

**BatchID:** R159515

Sample ID: <b>MB</b>	SampType: <b>MBLK</b>	TestCode: <b>VOC_DW(524</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>159515</b>						
Client ID: <b>PBW</b>	Batch ID: <b>R159515</b>	TestNo: <b>E524.2</b>		Analysis Date: <b>3/8/2023</b>	SeqNo: <b>4240141</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Isopropylbenzene	ND	0.500									
m,p-Xylene	ND	0.500									
Methylene chloride	ND	0.500									
MTBE	ND	0.500									
n-Butylbenzene	ND	0.500									
n-Propylbenzene	ND	0.500									
o-Xylene	ND	0.500									
p-Isopropyltoluene	ND	0.500									
sec-Butylbenzene	ND	0.500									
Styrene	ND	0.500									
tert-Butylbenzene	ND	0.500									
Tetrachloroethene	ND	0.500									
Toluene	ND	0.500									
trans-1,2-Dichloroethene	ND	0.500									
trans-1,3-Dichloropropene	ND	0.500									
Trichloroethene	ND	0.500									
Trichlorofluoromethane	ND	0.500									
Vinyl chloride	ND	0.500									
Xylenes, Total	ND	0.500									
Surr: 1,2-Dichlorobenzene-d4	8.43		10.00		84.3	70	130				
Surr: 4-Bromofluorobenzene	8.13		10.00		81.3	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#: 23030475

17-Mar-23

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

**BatchID:** R159515

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

**Qualifiers:**  
 E Value above quantitation range  
 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#: 23030475

17-Mar-23

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

**BatchID:** R159515

Sample ID: 23030475-002ADUP	SampType: DUP	TestCode: VOC_DW(524	Units: µg/L	Prep Date:	RunNo: 159515						
Client ID: PW-202 Rhoades W	Batch ID: R159515	TestNo: E524.2	Analysis Date: 3/8/2023	SeqNo: 4240143							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon tetrachloride	ND	0.500						0	0	20	
Chlorobenzene	ND	0.500						0	0	20	
Chlorobromomethane	ND	0.500						0	0	20	
Chlorodibromomethane	ND	0.500						0	0	20	
Chloroethane	ND	0.500						0	0	20	
Chloroform	ND	0.500						0	0	20	
Chloromethane	ND	0.500						0	0	20	
cis-1,2-Dichloroethene	ND	0.500						0	0	20	
cis-1,3-Dichloropropene	ND	0.500						0	0	20	
Dibromomethane	ND	0.500						0	0	20	
Dichlorodifluoromethane	ND	0.500						0	0	20	
Ethylbenzene	ND	0.500						0	0	20	
Hexachloro-1,3-butadiene	ND	0.500						0	0	20	
Isopropylbenzene	ND	0.500						0	0	20	
m,p-Xylene	ND	0.500						0	0	20	
Methylene chloride	ND	0.500						0	0	20	
MTBE	ND	0.500						0	0	20	
n-Butylbenzene	ND	0.500						0	0	20	
n-Propylbenzene	ND	0.500						0	0	20	
o-Xylene	ND	0.500						0	0	20	
p-Isopropyltoluene	ND	0.500						0	0	20	
sec-Butylbenzene	ND	0.500						0	0	20	
Styrene	ND	0.500						0	0	20	
tert-Butylbenzene	ND	0.500						0	0	20	
Tetrachloroethene	ND	0.500						0	0	20	
Toluene	ND	0.500						0	0	20	

**Qualifiers:**

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	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#: 23030475  
 17-Mar-23

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

**BatchID:** R159515

Sample ID: 23030475-002ADUP	SampType: DUP	TestCode: VOC_DW(524)	Units: µg/L	Prep Date:	RunNo: 159515						
Client ID: PW-202 Rhoades W	Batch ID: R159515	TestNo: E524.2	Analysis Date: 3/8/2023	SeqNo: 4240143							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,2-Dichloroethene	ND	0.500						0	0	20	
trans-1,3-Dichloropropene	ND	0.500						0	0	20	
Trichloroethene	ND	0.500						0	0	20	
Trichlorofluoromethane	ND	0.500						0	0	20	
Vinyl chloride	ND	0.500						0	0	20	
Xylenes, Total	ND	0.500						0	0	20	
Surr: 1,2-Dichlorobenzene-d4	8.35		10.00		83.5	70	130		0	20	
Surr: 4-Bromofluorobenzene	8.24		10.00		82.4	70	130		0	20	

<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		

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# QC SUMMARY REPORT

WO#: 23030475

17-Mar-23

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

**BatchID:** R159518

Sample ID: LCS	SampType: LCS	TestCode: VOC-MSTR_	Units: µg/L	Prep Date:	RunNo: 159518						
Client ID: LCSW	Batch ID: R159518	TestNo: SW8260	Analysis Date: 3/8/2023	SeqNo: 4240209							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Freon-113	20.4	5.00	20.00	0	102	80	143				
1,3-Butadiene	9.98	5.00	20.00	0	49.9	10	190				
1,4-Dioxane	183	25.0	200.0	0	91.3	10	190				
2,2-Dichloropropane	23.1	5.00	20.00	0	116	24	171				
2-Butanone	91.1	25.0	100.0	0	91.1	10	190				
2-Ethylhexyl acrylate	18.9	5.00	20.00	0	94.6	70	130				
2-Nitropropane	20.6	50.0	20.00	0	103	10	152				J
Acrylonitrile (2-propenenitrile)	113	30.0	120.0	0	94.1	10	190				
Allyl chloride	21.5	5.00	20.00	0	108	64	155				
Carbon disulfide	22.7	5.00	20.00	0	114	63	149				
Chloroprene	22.2	5.00	20.00	0	111	46	164				
Cyclohexanone	104	5.00	100.0	0	104	10	190				m
Ethyl Ether	18.9	10.0	20.00	0	94.3	36	165				
Epichlorohydrin	19.0	20.0	20.00	0	95.1	10	181				J
ETBE	22.3	5.00	20.00	0	111	70	130				
Ethyl acrylate	18.4	5.00	20.00	0	92.1	70	130				
Ethyl methacrylate	21.4	5.00	20.00	0	107	59	136				
Hexachloroethane	16.6	5.00	20.00	0	83.2	10	214				
Diisopropyl ether (DIPE)	22.0	5.00	20.00	0	110	10	177				
Methacrylonitrile	21.5	5.00	20.00	0	108	10	153				
Methyl acrylate	20.5	5.00	20.00	0	103	10	176				
Methyl methacrylate	21.4	5.00	20.00	0	107	50	130				
n-Butyl acrylate	18.3	5.00	20.00	0	91.3	70	130				
Propionitrile	21.3	5.00	20.00	0	107	70	130				
trans-1,4-Dichloro-2-butene	22.2	5.00	20.00	0	111	10	196				
Vinyl acetate	19.7	5.00	20.00	0	98.7	10	190				

**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#: 23030475  
 17-Mar-23

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

**BatchID:** R159518

Sample ID: <b>LCS</b>	SampType: <b>LCS</b>	TestCode: <b>VOC-MSTR_</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>159518</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>R159518</b>	TestNo: <b>SW8260</b>		Analysis Date: <b>3/8/2023</b>	SeqNo: <b>4240209</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,3-Trimethylbenzene	23.8	5.00	20.00	0	119	3.54	177				QC+
Surr: 4-Bromofluorobenzene	50.3		50.00		101	70	130				
Surr: Dibromofluoromethane	50.1		50.00		100	70	130				
Surr: Toluene-d8	50.0		50.00		100	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>159518</b>						
Client ID: <b>PBW</b>	Batch ID: <b>R159518</b>	TestNo: <b>SW8260</b>		Analysis Date: <b>3/8/2023</b>	SeqNo: <b>4240212</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Freon-113	ND	5.00									
1,3-Butadiene	ND	5.00									
1,4-Dioxane	ND	25.0									
2,2-Dichloropropane	ND	5.00									
2-Butanone	ND	25.0									
2-Ethylhexyl acrylate	ND	5.00									
2-Nitropropane	ND	50.0									
Acrylonitrile (2-propenenitrile)	ND	30.0									
Allyl chloride	ND	5.00									
Carbon disulfide	ND	5.00									
Chloroprene	ND	5.00									
Cyclohexanone	ND	5.00									
Ethyl Ether	ND	10.0									
Epichlorohydrin	ND	20.0									
ETBE	ND	5.00									
Ethyl acrylate	ND	5.00									

**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#: 23030475

17-Mar-23

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

**BatchID:** R159518

Sample ID: <b>MB</b>	SampType: <b>MBLK</b>	TestCode: <b>VOC-MSTR_</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>159518</b>						
Client ID: <b>PBW</b>	Batch ID: <b>R159518</b>	TestNo: <b>SW8260</b>	Analysis Date: <b>3/8/2023</b>	SeqNo: <b>4240212</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethyl methacrylate	ND	5.00									
Hexachloroethane	ND	5.00									
Diisopropyl ether (DIPE)	ND	5.00									
Methacrylonitrile	ND	5.00									
Methyl acrylate	ND	5.00									
Methyl methacrylate	ND	5.00									
n-Butyl acrylate	ND	5.00									
trans-1,4-Dichloro-2-butene	ND	5.00									
Vinyl acetate	ND	5.00									
1,2,3-Trimethylbenzene	ND	5.00									QC+
Surr: 4-Bromofluorobenzene	48.4		50.00		96.7	70	130				
Surr: Dibromofluoromethane	51.1		50.00		102	70	130				
Surr: Toluene-d8	49.2		50.00		98.4	70	130				

Sample ID: <b>23030261-004AMS</b>	SampType: <b>MS</b>	TestCode: <b>VOC-MSTR_</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>159518</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>R159518</b>	TestNo: <b>SW8260</b>	Analysis Date: <b>3/8/2023</b>	SeqNo: <b>4240247</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Freon-113	110	25.0	100.0	0	110	10	236				
1,3-Butadiene	52.9	25.0	100.0	0	52.9	10	203				
1,4-Dioxane	973	125	1000	0	97.3	10	181				
2,2-Dichloropropane	116	25.0	100.0	0	116	23.5	171				
2-Butanone	491	125	500.0	0	98.2	70	130				
2-Ethylhexyl acrylate	84.8	25.0	100.0	0	84.8	70	130				
2-Nitropropane	111	250	100.0	0	111	10	152				J

**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



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

# QC SUMMARY REPORT

WO#: 23030475

17-Mar-23

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

**BatchID:** R159518

Sample ID: 23030261-004AMS	SampType: MS	TestCode: VOC-MSTR_	Units: µg/L	Prep Date:	RunNo: 159518						
Client ID: BatchQC	Batch ID: R159518	TestNo: SW8260	Analysis Date: 3/8/2023	SeqNo: 4240247							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acrylonitrile (2-propenenitrile)	629	150	600.0	0	105	59	130				
Allyl chloride	112	25.0	100.0	0	112	-2.66	201				
Carbon disulfide	118	25.0	100.0	0	118	63.2	147				
Chloroprene	114	25.0	100.0	0	114	46.2	164				
Cyclohexanone	506	25.0	500.0	0	101	10	193				
Ethyl Ether	98.9	50.0	100.0	0	98.9	36.1	165				
Epichlorohydrin	97.0	100	100.0	0	97.0	10	181				J
ETBE	109	25.0	100.0	0	109	70	130				
Ethyl acrylate	95.4	25.0	100.0	0	95.4	70	130				
Ethyl methacrylate	103	25.0	100.0	0	103	70	130				
Hexachloroethane	79.7	25.0	100.0	0	79.7	10	214				
Diisopropyl ether (DIPE)	109	25.0	100.0	0	109	10	177				
Methacrylonitrile	108	25.0	100.0	0	108	10	153				
Methyl acrylate	107	25.0	100.0	0	107	10	176				
Methyl methacrylate	113	25.0	100.0	0	113	49.7	130				
n-Butyl acrylate	93.9	25.0	100.0	0	93.9	70	130				
Propionitrile	118	25.0	100.0	0	118	70	130				
trans-1,4-Dichloro-2-butene	110	25.0	100.0	0	110	10	196				
Vinyl acetate	102	25.0	100.0	0	102	32.8	153				
1,2,3-Trimethylbenzene	112	25.0	100.0	0	112	70	130				QC+
Surr: 4-Bromofluorobenzene	255		250.0		102	70	130				
Surr: Dibromofluoromethane	249		250.0		99.6	70	130				
Surr: Toluene-d8	241		250.0		96.4	46.1	154				

**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#: 23030475

17-Mar-23

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

**BatchID:** R159518

Sample ID: 23030261-004AMSD	SampType: MSD	TestCode: VOC-MSTR_	Units: µg/L	Prep Date:	RunNo: 159518						
Client ID: BatchQC	Batch ID: R159518	TestNo: SW8260	Analysis Date: 3/8/2023	SeqNo: 4240248							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Freon-113	117	25.0	100.0	0	117	10	236	109.8	6.32	20	
1,3-Butadiene	61.7	25.0	100.0	0	61.7	10	203	52.94	15.3	20	
1,4-Dioxane	1080	125	1000	0	108	10	181	972.7	10.1	20	
2,2-Dichloropropane	126	25.0	100.0	0	126	23.5	171	116.0	8.61	20	
2-Butanone	512	125	500.0	0	102	70	130	490.9	4.25	20	
2-Ethylhexyl acrylate	102	25.0	100.0	0	102	70	130	84.84	18.6	0	
2-Nitropropane	119	250	50.00	0	237	10	152	110.7	6.84	20	JS
Acrylonitrile (2-propenenitrile)	683	150	600.0	0	114	59	130	629.1	8.24	20	
Allyl chloride	120	25.0	100.0	0	120	-2.66	201	111.6	7.63	20	
Carbon disulfide	130	25.0	100.0	0	130	63.2	147	118.1	9.32	20	
Chloroprene	125	25.0	100.0	0	125	46.2	164	113.7	9.45	20	
Cyclohexanone	518	25.0	500.0	0	104	10	193	506.3	2.37	20	
Ethyl Ether	108	50.0	100.0	0	108	36.1	165	98.88	9.15	20	
Epichlorohydrin	108	100	100.0	0	108	10	181	97.04	10.4	20	
ETBE	116	25.0	100.0	0	116	70	130	108.7	6.11	0	
Ethyl acrylate	102	25.0	100.0	0	102	70	130	95.40	6.82	0	
Ethyl methacrylate	117	25.0	100.0	0	117	70	130	103.4	12.6	20	
Hexachloroethane	85.9	25.0	100.0	0	85.9	10	214	79.68	7.51	20	
Diisopropyl ether (DIPE)	117	25.0	100.0	0	117	10	177	109.3	6.79	20	
Methacrylonitrile	120	25.0	100.0	0	120	10	153	107.8	10.6	20	
Methyl acrylate	115	25.0	100.0	0	115	10	176	107.4	7.22	20	
Methyl methacrylate	123	25.0	100.0	0	123	49.7	130	112.7	8.85	20	
n-Butyl acrylate	101	25.0	100.0	0	101	70	130	93.90	7.36	0	
Propionitrile	120	25.0	100.0	0	120	70	130	118.3	1.51	20	
trans-1,4-Dichloro-2-butene	120	25.0	100.0	0	120	10	196	109.7	8.81	20	
Vinyl acetate	114	25.0	100.0	0	114	32.8	153	102.5	10.5	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#: 23030475  
17-Mar-23

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

**BatchID:** R159518

Sample ID: <b>23030261-004AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>VOC-MSTR_</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>159518</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>R159518</b>	TestNo: <b>SW8260</b>	Analysis Date: <b>3/8/2023</b>	SeqNo: <b>4240248</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,3-Trimethylbenzene	122	25.0	100.0	0	122	70	130	111.6	8.51	0	QC+
Surr: 4-Bromofluorobenzene	252		250.0		101	70	130		0	20	
Surr: Dibromofluoromethane	252		250.0		101	70	130		0	20	
Surr: Toluene-d8	246		250.0		98.5	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

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# QC SUMMARY REPORT

WO#: 23030475

17-Mar-23

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

**BatchID:** R159524

Sample ID: LCS-R159524	SampType: LCS	TestCode: VOC_DW(524)	Units: µg/L	Prep Date:	RunNo: 159524						
Client ID: LCSW	Batch ID: R159524	TestNo: E524.2		Analysis Date: 3/8/2023	SeqNo: 4240389						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	4.69	0.500	5.000	0	93.7	70	130				
1,1,1-Trichloroethane	4.74	0.500	5.000	0	94.9	70	130				
1,1,2,2-Tetrachloroethane	4.28	0.500	5.000	0	85.5	70	130				
1,1,2-Trichloroethane	4.52	0.500	5.000	0	90.5	70	130				
1,1-Dichloroethane	4.38	0.500	5.000	0	87.5	70	130				
1,1-Dichloroethene	4.73	0.500	5.000	0	94.5	70	130				
1,1-Dichloropropene	4.70	0.500	5.000	0	94.0	70	130				
1,2,3-Trichlorobenzene	4.39	0.500	5.000	0	87.8	70	130				
1,2,3-Trichloropropane	4.19	0.500	5.000	0	83.7	70	130				
1,2,4-Trichlorobenzene	4.74	0.500	5.000	0	94.8	70	130				
1,2,4-Trimethylbenzene	4.35	0.500	5.000	0	87.1	70	130				
1,2-Dichlorobenzene	4.37	0.500	5.000	0	87.3	70	130				
1,2-Dichloroethane	4.70	0.500	5.000	0	94.0	70	130				
1,2-Dichloropropane	4.44	0.500	5.000	0	88.8	70	130				
1,3,5-Trimethylbenzene	4.44	0.500	5.000	0	88.9	70	130				
1,3-Dichlorobenzene	4.46	0.500	5.000	0	89.1	70	130				
1,3-Dichloropropane	4.69	0.500	5.000	0	93.8	70	130				
1,4-Dichlorobenzene	4.55	0.500	5.000	0	90.9	70	130				
2-Chlorotoluene	4.26	0.500	5.000	0	85.2	70	130				
4-Chlorotoluene	4.33	0.500	5.000	0	86.7	70	130				
Benzene	4.49	0.500	5.000	0	89.7	70	130				
Bromobenzene	4.46	0.500	5.000	0	89.1	70	130				
Bromodichloromethane	4.67	0.500	5.000	0	93.3	70	130				
Bromoform	4.10	0.500	5.000	0	81.9	70	130				
Bromomethane	3.56	1.00	5.000	0	71.2	70	130				
Carbon tetrachloride	4.73	0.500	5.000	0	94.6	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				

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# QC SUMMARY REPORT

WO#: 23030475

17-Mar-23

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

**BatchID:** R159524

Sample ID: LCS-R159524	SampType: LCS	TestCode: VOC_DW(524)	Units: µg/L	Prep Date:	RunNo: 159524						
Client ID: LCSW	Batch ID: R159524	TestNo: E524.2		Analysis Date: 3/8/2023	SeqNo: 4240389						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	4.53	0.500	5.000	0	90.6	70	130				
Chlorobromomethane	4.51	0.500	5.000	0	90.3	70	130				
Chlorodibromomethane	4.66	0.500	5.000	0	93.3	70	130				
Chloroethane	4.03	0.500	5.000	0	80.5	70	130				
Chloroform	4.24	0.500	5.000	0	84.8	70	130				
Chloromethane	4.05	0.500	5.000	0	81.1	70	130				
cis-1,2-Dichloroethene	4.52	0.500	5.000	0	90.4	70	130				
cis-1,3-Dichloropropene	4.66	0.500	5.000	0	93.2	70	130				
Dibromomethane	4.67	0.500	5.000	0	93.3	70	130				
Dichlorodifluoromethane	4.07	0.500	5.000	0	81.4	70	130				
Ethylbenzene	4.50	0.500	5.000	0	90.1	70	130				
Hexachloro-1,3-butadiene	4.61	0.500	5.000	0	92.2	70	130				
Isopropylbenzene	4.47	0.500	5.000	0	89.5	70	130				
m,p-Xylene	8.82	0.500	10.00	0	88.2	70	130				
Methylene chloride	5.16	0.500	5.000	0	103	70	130				
MTBE	4.25	0.500	5.000	0	84.9	70	130				
n-Butylbenzene	4.40	0.500	5.000	0	87.9	70	130				
n-Propylbenzene	4.42	0.500	5.000	0	88.5	70	130				
o-Xylene	4.36	0.500	5.000	0	87.3	70	130				
p-Isopropyltoluene	4.38	0.500	5.000	0	87.7	70	130				
sec-Butylbenzene	4.45	0.500	5.000	0	89.0	70	130				
Styrene	4.40	0.500	5.000	0	87.9	70	130				
tert-Butylbenzene	4.34	0.500	5.000	0	86.8	70	130				
Tetrachloroethene	4.56	0.500	5.000	0	91.2	70	130				
Toluene	4.53	0.500	5.000	0	90.7	70	130				
trans-1,2-Dichloroethene	4.42	0.500	5.000	0	88.4	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				

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# QC SUMMARY REPORT

WO#: 23030475

17-Mar-23

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

**BatchID:** R159524

Sample ID: <b>LCS-R159524</b>	SampType: <b>LCS</b>	TestCode: <b>VOC_DW(524)</b> Units: <b>µg/L</b>	Prep Date:	RunNo: <b>159524</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>R159524</b>	TestNo: <b>E524.2</b>	Analysis Date: <b>3/8/2023</b>	SeqNo: <b>4240389</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,3-Dichloropropene	4.90	0.500	5.000	0	97.9	70	130				
Trichloroethene	4.37	0.500	5.000	0	87.4	70	130				
Trichlorofluoromethane	4.45	0.500	5.000	0	89.0	70	130				
Vinyl chloride	4.29	0.500	5.000	0	85.8	70	130				
Xylenes, Total	13.2	0.500	15.00	0	87.9	70	130				
Surr: 1,2-Dichlorobenzene-d4	9.42		10.00		94.2	70	130				
Surr: 4-Bromofluorobenzene	9.71		10.00		97.1	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>159524</b>							
Client ID: <b>PBW</b>	Batch ID: <b>R159524</b>	TestNo: <b>E524.2</b>	Analysis Date: <b>3/8/2023</b>	SeqNo: <b>4240396</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-Dichloroethene	ND	0.500									
1,1-Dichloropropene	ND	0.500									
1,2,3-Trichlorobenzene	ND	0.500									
1,2,3-Trichloropropane	ND	0.500									
1,2,4-Trichlorobenzene	ND	0.500									
1,2,4-Trimethylbenzene	ND	0.500									
1,2-Dichlorobenzene	ND	0.500									
1,2-Dichloroethane	ND	0.500									

**Qualifiers:**

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	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#: 23030475  
 17-Mar-23

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

**BatchID:** R159524

Sample ID: <b>MB</b>	SampType: <b>MBLK</b>	TestCode: <b>VOC_DW(524)</b> Units: <b>µg/L</b>	Prep Date:	RunNo: <b>159524</b>							
Client ID: <b>PBW</b>	Batch ID: <b>R159524</b>	TestNo: <b>E524.2</b>	Analysis Date: <b>3/8/2023</b>	SeqNo: <b>4240396</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloropropane	ND	0.500									
1,3,5-Trimethylbenzene	ND	0.500									
1,3-Dichlorobenzene	ND	0.500									
1,3-Dichloropropane	ND	0.500									
1,3-Dichloropropene, Total	ND	1.00									
1,4-Dichlorobenzene	ND	0.500									
2-Chlorotoluene	ND	0.500									
4-Chlorotoluene	ND	0.500									
Benzene	ND	0.500									
Bromobenzene	ND	0.500									
Bromodichloromethane	ND	0.500									
Bromoform	ND	0.500									
Bromomethane	ND	1.00									
Carbon tetrachloride	ND	0.500									
Chlorobenzene	ND	0.500									
Chlorobromomethane	ND	0.500									
Chlorodibromomethane	ND	0.500									
Chloroethane	ND	0.500									
Chloroform	ND	0.500									
Chloromethane	ND	0.500									
cis-1,2-Dichloroethene	ND	0.500									
cis-1,3-Dichloropropene	ND	0.500									
Dibromomethane	ND	0.500									
Dichlorodifluoromethane	ND	0.500									
Ethylbenzene	ND	0.500									
Hexachloro-1,3-butadiene	ND	0.500									

**Qualifiers:**

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	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



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

# QC SUMMARY REPORT

WO#: 23030475  
 17-Mar-23

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

**BatchID:** R159524

Sample ID: <b>MB</b>	SampType: <b>MBLK</b>	TestCode: <b>VOC_DW(524)</b> Units: <b>µg/L</b>	Prep Date:	RunNo: <b>159524</b>							
Client ID: <b>PBW</b>	Batch ID: <b>R159524</b>	TestNo: <b>E524.2</b>	Analysis Date: <b>3/8/2023</b>	SeqNo: <b>4240396</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Isopropylbenzene	ND	0.500									
m,p-Xylene	ND	0.500									
Methylene chloride	ND	0.500									
MTBE	ND	0.500									
n-Butylbenzene	ND	0.500									
n-Propylbenzene	ND	0.500									
o-Xylene	ND	0.500									
p-Isopropyltoluene	ND	0.500									
sec-Butylbenzene	ND	0.500									
Styrene	ND	0.500									
tert-Butylbenzene	ND	0.500									
Tetrachloroethene	ND	0.500									
Toluene	ND	0.500									
trans-1,2-Dichloroethene	ND	0.500									
trans-1,3-Dichloropropene	ND	0.500									
Trichloroethene	ND	0.500									
Trichlorofluoromethane	ND	0.500									
Vinyl chloride	ND	0.500									
Xylenes, Total	ND	0.500									
Surr: 1,2-Dichlorobenzene-d4	9.13		10.00		91.3	70	130				
Surr: 4-Bromofluorobenzene	9.36		10.00		93.6	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		

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# QC SUMMARY REPORT

WO#: 23030475

17-Mar-23

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

**BatchID:** R159524

Sample ID: 23030475-001ADUP	SampType: DUP	TestCode: VOC_DW(524)	Units: µg/L	Prep Date:	RunNo: 159524						
Client ID: PW-201 Well 008	Batch ID: R159524	TestNo: E524.2		Analysis Date: 3/8/2023	SeqNo: 4240408						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	0.500						0	0	20	
1,1,1-Trichloroethane	ND	0.500						0	0	20	
1,1,2,2-Tetrachloroethane	ND	0.500						0	0	20	
1,1,2-Trichloroethane	ND	0.500						0	0	20	
1,1-Dichloroethane	ND	0.500						0	0	20	
1,1-Dichloroethene	ND	0.500						0	0	20	
1,1-Dichloropropene	ND	0.500						0	0	20	
1,2,3-Trichlorobenzene	ND	0.500						0	0	20	
1,2,3-Trichloropropane	ND	0.500						0	0	20	
1,2,4-Trichlorobenzene	ND	0.500						0	0	20	
1,2,4-Trimethylbenzene	ND	0.500						0	0	20	
1,2-Dichlorobenzene	ND	0.500						0	0	20	
1,2-Dichloroethane	ND	0.500						0	0	20	
1,2-Dichloropropane	ND	0.500						0	0	20	
1,3,5-Trimethylbenzene	ND	0.500						0	0	20	
1,3-Dichlorobenzene	ND	0.500						0	0	20	
1,3-Dichloropropane	ND	0.500						0	0	20	
1,3-Dichloropropene, Total	ND	1.00						0	0	0	
1,4-Dichlorobenzene	ND	0.500						0	0	20	
2-Chlorotoluene	ND	0.500						0	0	20	
4-Chlorotoluene	ND	0.500						0	0	20	
Benzene	ND	0.500						0	0	20	
Bromobenzene	ND	0.500						0	0	20	
Bromodichloromethane	ND	0.500						0	0	20	
Bromoform	ND	0.500						0	0	20	
Bromomethane	ND	1.00						0	0	20	

**Qualifiers:**

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	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#: 23030475  
 17-Mar-23

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

**BatchID:** R159524

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

**Qualifiers:**

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	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#: 23030475  
 17-Mar-23

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

**BatchID:** R159524

Sample ID: <b>23030475-001ADUP</b>	SampType: <b>DUP</b>	TestCode: <b>VOC_DW(524)</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>159524</b>						
Client ID: <b>PW-201 Well 008</b>	Batch ID: <b>R159524</b>	TestNo: <b>E524.2</b>	Analysis Date: <b>3/8/2023</b>	SeqNo: <b>4240408</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,2-Dichloroethene	ND	0.500						0	0	20	
trans-1,3-Dichloropropene	ND	0.500						0	0	20	
Trichloroethene	ND	0.500						0	0	20	
Trichlorofluoromethane	ND	0.500						0	0	20	
Vinyl chloride	ND	0.500						0	0	20	
Xylenes, Total	ND	0.500						0	0	20	
Surr: 1,2-Dichlorobenzene-d4	9.34		10.00		93.4	70	130		0	20	
Surr: 4-Bromofluorobenzene	9.56		10.00		95.6	70	130		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

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# QC SUMMARY REPORT

WO#: 23030475

17-Mar-23

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

**BatchID:** R159587

Sample ID: LCS	SampType: LCS	TestCode: VOC_DW(524	Units: µg/L	Prep Date:	RunNo: 159587						
Client ID: LCSW	Batch ID: R159587	TestNo: E524.2	Analysis Date: 3/9/2023	SeqNo: 4241509							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	4.98	0.500	5.000	0	99.6	70	130				
1,1,1-Trichloroethane	5.29	0.500	5.000	0	106	70	130				
1,1,2,2-Tetrachloroethane	4.95	0.500	5.000	0	99.0	70	130				
1,1,2-Trichloroethane	5.02	0.500	5.000	0	100	70	130				
1,1-Dichloroethane	4.85	0.500	5.000	0	96.9	70	130				
1,1-Dichloroethene	5.09	0.500	5.000	0	102	70	130				
1,1-Dichloropropene	5.49	0.500	5.000	0	110	70	130				
1,2,3-Trichlorobenzene	4.82	0.500	5.000	0	96.4	70	130				
1,2,3-Trichloropropane	5.49	0.500	5.000	0	110	70	130				
1,2,4-Trichlorobenzene	4.88	0.500	5.000	0	97.5	70	130				
1,2,4-Trimethylbenzene	4.57	0.500	5.000	0	91.3	70	130				
1,2-Dichlorobenzene	5.16	0.500	5.000	0	103	70	130				
1,2-Dichloroethane	5.26	0.500	5.000	0	105	70	130				
1,2-Dichloropropane	5.05	0.500	5.000	0	101	70	130				
1,3,5-Trimethylbenzene	4.92	0.500	5.000	0	98.4	70	130				
1,3-Dichlorobenzene	5.05	0.500	5.000	0	101	70	130				
1,3-Dichloropropane	5.24	0.500	5.000	0	105	70	130				
1,4-Dichlorobenzene	5.24	0.500	5.000	0	105	70	130				
2-Chlorotoluene	4.96	0.500	5.000	0	99.2	70	130				
4-Chlorotoluene	5.22	0.500	5.000	0	104	70	130				
Benzene	5.19	0.500	5.000	0	104	70	130				
Bromobenzene	4.90	0.500	5.000	0	98.0	70	130				
Bromodichloromethane	4.94	0.500	5.000	0	98.8	70	130				
Bromoform	4.67	0.500	5.000	0	93.4	70	130				
Bromomethane	4.68	1.00	5.000	0	93.5	70	130				
Carbon tetrachloride	5.18	0.500	5.000	0	104	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#: 23030475

17-Mar-23

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

**BatchID:** R159587

Sample ID: LCS	SampType: LCS	TestCode: VOC_DW(524	Units: µg/L	Prep Date:	RunNo: 159587						
Client ID: LCSW	Batch ID: R159587	TestNo: E524.2	Analysis Date: 3/9/2023	SeqNo: 4241509							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	5.06	0.500	5.000	0	101	70	130				
Chlorobromomethane	4.96	0.500	5.000	0	99.2	70	130				
Chlorodibromomethane	4.87	0.500	5.000	0	97.5	70	130				
Chloroethane	4.89	0.500	5.000	0	97.7	70	130				
Chloroform	4.93	0.500	5.000	0	98.6	70	130				
Chloromethane	4.30	0.500	5.000	0	86.0	70	130				
cis-1,2-Dichloroethene	4.81	0.500	5.000	0	96.1	70	130				
cis-1,3-Dichloropropene	4.94	0.500	5.000	0	98.8	70	130				
Dibromomethane	5.03	0.500	5.000	0	101	70	130				
Dichlorodifluoromethane	4.65	0.500	5.000	0	93.0	70	130				
Ethylbenzene	5.04	0.500	5.000	0	101	70	130				
Hexachloro-1,3-butadiene	5.31	0.500	5.000	0	106	70	130				
Isopropylbenzene	5.15	0.500	5.000	0	103	70	130				
m,p-Xylene	10.1	0.500	10.00	0	101	70	130				
Methylene chloride	5.14	0.500	5.000	0	103	70	130				
MTBE	4.31	0.500	5.000	0	86.3	70	130				
n-Butylbenzene	5.01	0.500	5.000	0	100	70	130				
n-Propylbenzene	5.15	0.500	5.000	0	103	70	130				
o-Xylene	5.27	0.500	5.000	0	105	70	130				
p-Isopropyltoluene	4.69	0.500	5.000	0	93.8	70	130				
sec-Butylbenzene	4.96	0.500	5.000	0	99.2	70	130				
Styrene	5.07	0.500	5.000	0	101	70	130				
tert-Butylbenzene	4.96	0.500	5.000	0	99.3	70	130				
Tetrachloroethene	5.13	0.500	5.000	0	103	70	130				
Toluene	5.15	0.500	5.000	0	103	70	130				
trans-1,2-Dichloroethene	4.88	0.500	5.000	0	97.6	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#: 23030475

17-Mar-23

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

**BatchID:** R159587

Sample ID: <b>LCS</b>	SampType: <b>LCS</b>	TestCode: <b>VOC_DW(524)</b> Units: <b>µg/L</b>	Prep Date:	RunNo: <b>159587</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>R159587</b>	TestNo: <b>E524.2</b>	Analysis Date: <b>3/9/2023</b>	SeqNo: <b>4241509</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,3-Dichloropropene	4.75	0.500	5.000	0	95.1	70	130				
Trichloroethene	5.12	0.500	5.000	0	102	70	130				
Trichlorofluoromethane	4.85	0.500	5.000	0	97.0	70	130				
Vinyl chloride	4.58	0.500	5.000	0	91.5	70	130				
Xylenes, Total	15.4	0.500	15.00	0	102	70	130				
Surr: 1,2-Dichlorobenzene-d4	10.4		10.00		104	70	130				
Surr: 4-Bromofluorobenzene	10.4		10.00		104	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>159587</b>							
Client ID: <b>PBW</b>	Batch ID: <b>R159587</b>	TestNo: <b>E524.2</b>	Analysis Date: <b>3/9/2023</b>	SeqNo: <b>4241510</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-Dichloroethene	ND	0.500									
1,1-Dichloropropene	ND	0.500									
1,2,3-Trichlorobenzene	ND	0.500									
1,2,3-Trichloropropane	ND	0.500									
1,2,4-Trichlorobenzene	ND	0.500									
1,2,4-Trimethylbenzene	ND	0.500									
1,2-Dichlorobenzene	ND	0.500									
1,2-Dichloroethane	ND	0.500									

**Qualifiers:**

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	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#: 23030475  
 17-Mar-23

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

**BatchID:** R159587

Sample ID: <b>MB</b>	SampType: <b>MBLK</b>	TestCode: <b>VOC_DW(524)</b> Units: <b>µg/L</b>	Prep Date:	RunNo: <b>159587</b>							
Client ID: <b>PBW</b>	Batch ID: <b>R159587</b>	TestNo: <b>E524.2</b>	Analysis Date: <b>3/9/2023</b>	SeqNo: <b>4241510</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloropropane	ND	0.500									
1,3,5-Trimethylbenzene	0.292	0.500									J
1,3-Dichlorobenzene	ND	0.500									
1,3-Dichloropropane	ND	0.500									
1,3-Dichloropropene, Total	ND	1.00									
1,4-Dichlorobenzene	ND	0.500									
2-Chlorotoluene	ND	0.500									
4-Chlorotoluene	ND	0.500									
Benzene	ND	0.500									
Bromobenzene	ND	0.500									
Bromodichloromethane	ND	0.500									
Bromoform	ND	0.500									
Bromomethane	ND	1.00									
Carbon tetrachloride	ND	0.500									
Chlorobenzene	ND	0.500									
Chlorobromomethane	ND	0.500									
Chlorodibromomethane	ND	0.500									
Chloroethane	ND	0.500									
Chloroform	ND	0.500									
Chloromethane	ND	0.500									
cis-1,2-Dichloroethene	ND	0.500									
cis-1,3-Dichloropropene	ND	0.500									
Dibromomethane	ND	0.500									
Dichlorodifluoromethane	ND	0.500									
Ethylbenzene	ND	0.500									
Hexachloro-1,3-butadiene	ND	0.500									

<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		

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# QC SUMMARY REPORT

WO#: 23030475  
 17-Mar-23

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

**BatchID:** R159587

Sample ID: <b>MB</b>	SampType: <b>MBLK</b>	TestCode: <b>VOC_DW(524</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>159587</b>						
Client ID: <b>PBW</b>	Batch ID: <b>R159587</b>	TestNo: <b>E524.2</b>		Analysis Date: <b>3/9/2023</b>	SeqNo: <b>4241510</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Isopropylbenzene	ND	0.500									
m,p-Xylene	ND	0.500									
Methylene chloride	ND	0.500									
MTBE	ND	0.500									
n-Butylbenzene	ND	0.500									
n-Propylbenzene	ND	0.500									
o-Xylene	ND	0.500									
p-Isopropyltoluene	ND	0.500									
sec-Butylbenzene	0.268	0.500									J
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	8.37		10.00		83.7	70	130				
Surr: 4-Bromofluorobenzene	8.00		10.00		80.0	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#: 23030475

17-Mar-23

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

**BatchID:** R159587

Sample ID: 23030583-001ADUP	SampType: DUP	TestCode: VOC_DW(524	Units: µg/L	Prep Date:	RunNo: 159587						
Client ID: BatchQC	Batch ID: R159587	TestNo: E524.2		Analysis Date: 3/9/2023	SeqNo: 4241512						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	0.500						0	0	20	
1,1,1-Trichloroethane	ND	0.500						0	0	20	
1,1,2,2-Tetrachloroethane	ND	0.500						0	0	20	
1,1,2-Trichloroethane	ND	0.500						0	0	20	
1,1-Dichloroethane	ND	0.500						0	0	20	
1,1-Dichloroethene	ND	0.500						0	0	20	
1,1-Dichloropropene	ND	0.500						0	0	20	
1,2,3-Trichlorobenzene	ND	0.500						0	0	20	
1,2,3-Trichloropropane	ND	0.500						0	0	20	
1,2,4-Trichlorobenzene	ND	0.500						0	0	20	
1,2,4-Trimethylbenzene	ND	0.500						0	0	20	
1,2-Dichlorobenzene	ND	0.500						0	0	20	
1,2-Dichloroethane	ND	0.500						0	0	20	
1,2-Dichloropropane	ND	0.500						0	0	20	
1,3,5-Trimethylbenzene	ND	0.500						0	0	20	MB+
1,3-Dichlorobenzene	ND	0.500						0	0	20	
1,3-Dichloropropane	ND	0.500						0	0	20	
1,3-Dichloropropene, Total	ND	1.00						0	0	0	
1,4-Dichlorobenzene	ND	0.500						0	0	20	
2-Chlorotoluene	ND	0.500						0	0	20	
4-Chlorotoluene	ND	0.500						0	0	20	
Benzene	ND	0.500						0	0	20	
Bromobenzene	ND	0.500						0	0	20	
Bromodichloromethane	ND	0.500						0	0	20	
Bromoform	ND	0.500						0	0	20	
Bromomethane	ND	1.00						0	0	20	

**Qualifiers:**  
 E Value above quantitation range  
 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#: 23030475  
 17-Mar-23

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

**BatchID:** R159587

Sample ID: 23030583-001ADUP	SampType: DUP	TestCode: VOC_DW(524	Units: µg/L	Prep Date:	RunNo: 159587						
Client ID: BatchQC	Batch ID: R159587	TestNo: E524.2	Analysis Date: 3/9/2023	SeqNo: 4241512							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon tetrachloride	ND	0.500						0	0	20	
Chlorobenzene	ND	0.500						0	0	20	
Chlorobromomethane	ND	0.500						0	0	20	
Chlorodibromomethane	ND	0.500						0	0	20	
Chloroethane	ND	0.500						0	0	20	
Chloroform	ND	0.500						0	0	20	
Chloromethane	ND	0.500						0	0	20	
cis-1,2-Dichloroethene	ND	0.500						0	0	20	
cis-1,3-Dichloropropene	ND	0.500						0	0	20	
Dibromomethane	ND	0.500						0	0	20	
Dichlorodifluoromethane	ND	0.500						0	0	20	
Ethylbenzene	ND	0.500						0	0	20	
Hexachloro-1,3-butadiene	ND	0.500						0	0	20	
Isopropylbenzene	ND	0.500						0	0	20	
m,p-Xylene	ND	0.500						0	0	20	
Methylene chloride	ND	0.500						0	0	20	
MTBE	ND	0.500						0	0	20	
n-Butylbenzene	ND	0.500						0	0	20	
n-Propylbenzene	ND	0.500						0	0	20	
o-Xylene	ND	0.500						0	0	20	
p-Isopropyltoluene	ND	0.500						0	0	20	
sec-Butylbenzene	ND	0.500						0	0	20	MB+
Styrene	ND	0.500						0	0	20	
tert-Butylbenzene	ND	0.500						0	0	20	
Tetrachloroethene	ND	0.500						0	0	20	
Toluene	ND	0.500						0	0	20	

**Qualifiers:**

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	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#: 23030475  
 17-Mar-23

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

**BatchID:** R159587

Sample ID: <b>23030583-001ADUP</b>	SampType: <b>DUP</b>	TestCode: <b>VOC_DW(524)</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>159587</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>R159587</b>	TestNo: <b>E524.2</b>	Analysis Date: <b>3/9/2023</b>	SeqNo: <b>4241512</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,2-Dichloroethene	ND	0.500						0	0	20	
trans-1,3-Dichloropropene	ND	0.500						0	0	20	
Trichloroethene	ND	0.500						0	0	20	
Trichlorofluoromethane	ND	0.500						0	0	20	
Vinyl chloride	ND	0.500						0	0	20	
Xylenes, Total	ND	0.500						0	0	20	
Surr: 1,2-Dichlorobenzene-d4	8.73		10.00		87.3	70	130		0	20	
Surr: 4-Bromofluorobenzene	8.36		10.00		83.6	70	130		0	20	

<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#: **23030475**  
**17-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
23030475-001A	PW-201 Well 008	3/7/2023 9:30:00 AM	Drinking Water	VOC-GC/MS (524.2)			3/8/2023 5:02:00 PM
23030475-001B				EDB, DBCP, 123TCP by GC (EPA 504)		3/14/2023 3:15:00 PM	3/15/2023 4:32:00 AM
23030475-001C				VOC by GC/MS (8260D)			3/8/2023 4:40:00 PM
				VOC Tentatively Identified Compound (TICs)			3/8/2023 4:40:00 PM
23030475-001D				SVOC by 8270E		3/9/2023 10:27:06 AM	3/12/2023 6:12:00 AM
				SVOC by 8270E		3/9/2023 10:27:06 AM	3/15/2023 9:44:00 PM
				Synthetic Organic Compounds by GC/MS (EPA 525.3)		3/15/2023 9:30:00 AM	3/16/2023 3:08:00 AM
				Synthetic Organic Compounds by GC/MS (EPA 525.3)		3/15/2023 9:30:00 AM	3/16/2023 2:46:00 PM
23030475-001E				Alcohols (EPA 8015) C			3/8/2023 11:46:00 AM
				Alcohols (EPA 8015) C			3/8/2023 11:46:00 AM
				Glycols (8015)			3/8/2023 1:14:00 PM
				Glycols (8015)			3/8/2023 1:14:00 PM
23030475-002A	PW-202 Rhoades Well	3/7/2023 10:07:00 AM		VOC-GC/MS (524.2)			3/8/2023 9:44:00 PM
23030475-002B				EDB, DBCP, 123TCP by GC (EPA 504)		3/14/2023 3:15:00 PM	3/15/2023 4:52:00 AM
23030475-002C				VOC by GC/MS (8260D)			3/8/2023 5:03:00 PM
				VOC Tentatively Identified Compound (TICs)			3/8/2023 5:03:00 PM
23030475-002D				SVOC by 8270E		3/9/2023 10:27:06 AM	3/15/2023 10:03:00 PM
				SVOC by 8270E		3/9/2023 10:27:06 AM	3/12/2023 6:43:00 AM
				Synthetic Organic Compounds by GC/MS (EPA 525.3)		3/15/2023 9:30:00 AM	3/16/2023 3:55:00 AM
23030475-002E				Alcohols (EPA 8015) C			3/8/2023 12:04:00 PM
				Alcohols (EPA 8015) C			3/8/2023 12:04:00 PM

Original



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# DATES REPORT

WO#: **23030475**  
**17-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
23030475-002E	PW-202 Rhoades Well	3/7/2023 10:07:00 AM	Drinking Water	Glycols (8015)			3/8/2023 1:51:00 PM
				Glycols (8015)			3/8/2023 1:51:00 PM
23030475-003A	PW-203 Nulf Well	3/7/2023 10:46:00 AM		VOC-GC/MS (524.2)			3/8/2023 11:39:00 PM
23030475-003B				EDB, DBCP, 123TCP by GC (EPA 504)		3/14/2023 3:15:00 PM	3/15/2023 5:13:00 AM
23030475-003C				VOC by GC/MS (8260D)			3/8/2023 5:27:00 PM
				VOC Tentatively Identified Compound (TICs)			3/8/2023 5:27:00 PM
23030475-003D				SVOC by 8270E		3/9/2023 10:27:06 AM	3/12/2023 7:15:00 AM
				SVOC by 8270E		3/9/2023 10:27:06 AM	3/15/2023 10:23:00 PM
				Synthetic Organic Compounds by GC/MS (EPA 525.3)		3/15/2023 9:30:00 AM	3/16/2023 4:41:00 AM
23030475-003E				Alcohols (EPA 8015) C			3/8/2023 12:22:00 PM
				Alcohols (EPA 8015) C			3/8/2023 12:22:00 PM
				Glycols (8015)			3/8/2023 2:28:00 PM
				Glycols (8015)			3/8/2023 2:28:00 PM
23030475-004A	PW-204 Harding Well	3/7/2023 11:20:00 AM		VOC-GC/MS (524.2)			3/9/2023 12:08:00 AM
23030475-004B				EDB, DBCP, 123TCP by GC (EPA 504)		3/14/2023 3:15:00 PM	3/15/2023 5:33:00 AM
23030475-004C				VOC by GC/MS (8260D)			3/8/2023 5:50:00 PM
				VOC Tentatively Identified Compound (TICs)			3/8/2023 5:50:00 PM
23030475-004D				SVOC by 8270E		3/9/2023 10:27:06 AM	3/15/2023 10:42:00 PM
				SVOC by 8270E		3/9/2023 10:27:06 AM	3/12/2023 7:46:00 AM
				Synthetic Organic Compounds by GC/MS (EPA 525.3)		3/15/2023 9:30:00 AM	3/16/2023 5:28:00 AM
23030475-004E				Alcohols (EPA 8015) C			3/8/2023 12:40:00 PM
				Alcohols (EPA 8015) C			3/8/2023 12:40:00 PM

Original



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# DATES REPORT

WO#: **23030475**  
**17-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
23030475-004E	PW-204 Harding Well	3/7/2023 11:20:00 AM	Drinking Water	Glycols (8015)			3/8/2023 3:05:00 PM
				Glycols (8015)			3/8/2023 3:05:00 PM
23030475-005A	PW-205 Zuch Well	3/7/2023 11:53:00 AM		VOC-GC/MS (524.2)			3/9/2023 12:36:00 AM
23030475-005B				EDB, DBCP, 123TCP by GC (EPA 504)		3/14/2023 3:15:00 PM	3/15/2023 5:53:00 AM
23030475-005C				VOC by GC/MS (8260D)			3/8/2023 6:14:00 PM
				VOC Tentatively Identified Compound (TICs)			3/8/2023 6:14:00 PM
23030475-005D				SVOC by 8270E		3/9/2023 10:27:06 AM	3/12/2023 8:18:00 AM
				SVOC by 8270E		3/9/2023 10:27:06 AM	3/15/2023 11:02:00 PM
				Synthetic Organic Compounds by GC/MS (EPA 525.3)		3/15/2023 9:30:00 AM	3/16/2023 6:14:00 AM
23030475-005E				Alcohols (EPA 8015) C			3/8/2023 12:58:00 PM
				Alcohols (EPA 8015) C			3/8/2023 12:58:00 PM
				Glycols (8015)			3/8/2023 3:42:00 PM
				Glycols (8015)			3/8/2023 3:42:00 PM
23030475-006A	PW-207 Entry Point	3/7/2023 12:25:00 PM		VOC-GC/MS (524.2)			3/9/2023 1:05:00 AM
23030475-006B				EDB, DBCP, 123TCP by GC (EPA 504)		3/14/2023 3:15:00 PM	3/15/2023 6:13:00 AM
23030475-006C				VOC by GC/MS (8260D)			3/8/2023 6:37:00 PM
				VOC Tentatively Identified Compound (TICs)			3/8/2023 6:37:00 PM
23030475-006D				SVOC by 8270E		3/9/2023 10:27:06 AM	3/12/2023 8:49:00 AM
				SVOC by 8270E		3/9/2023 10:27:06 AM	3/15/2023 11:21:00 PM
				Synthetic Organic Compounds by GC/MS (EPA 525.3)		3/15/2023 9:30:00 AM	3/16/2023 7:00:00 AM
23030475-006E				Alcohols (EPA 8015) C			3/8/2023 1:16:00 PM
				Alcohols (EPA 8015) C			3/8/2023 1:16:00 PM

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# DATES REPORT

WO#: **23030475**  
**17-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
23030475-006E	PW-207 Entry Point	3/7/2023 12:25:00 PM	Drinking Water	Glycols (8015)			3/8/2023 4:20:00 PM
				Glycols (8015)			3/8/2023 4:20:00 PM
23030475-007A	PW-201FB Field Blank	3/7/2023 12:20:00 PM		VOC-GC/MS (524.2)			3/9/2023 11:47:00 PM
				VOC-GC/MS (524.2)			3/9/2023 1:34:00 AM
23030475-007B				EDB, DBCP, 123TCP by GC (EPA 504)		3/14/2023 3:15:00 PM	3/15/2023 6:33:00 AM
23030475-007C				VOC by GC/MS (8260D)			3/8/2023 7:00:00 PM
				VOC Tentatively Identified Compound (TICs)			3/8/2023 7:00:00 PM
23030475-007D				SVOC by 8270E		3/9/2023 10:27:06 AM	3/15/2023 11:41:00 PM
				SVOC by 8270E		3/9/2023 10:27:06 AM	3/12/2023 9:21:00 AM
				Synthetic Organic Compounds by GC/MS (EPA 525.3)		3/15/2023 9:30:00 AM	3/16/2023 7:47:00 AM
23030475-007E				Alcohols (EPA 8015) C			3/8/2023 1:34:00 PM
				Alcohols (EPA 8015) C			3/8/2023 1:34:00 PM
				Glycols (8015)			3/8/2023 4:57:00 PM
				Glycols (8015)			3/8/2023 4:57:00 PM
23030475-008A	PW-207DUPE Duplicate	3/7/2023 12:25:00 PM		VOC-GC/MS (524.2)			3/9/2023 2:02:00 AM
				VOC-GC/MS (524.2)			3/10/2023 12:16:00 AM
23030475-008B				EDB, DBCP, 123TCP by GC (EPA 504)		3/14/2023 3:15:00 PM	3/15/2023 8:35:00 AM
23030475-008C				VOC by GC/MS (8260D)			3/8/2023 7:24:00 PM
				VOC Tentatively Identified Compound (TICs)			3/8/2023 7:24:00 PM
23030475-008D				SVOC by 8270E		3/9/2023 10:27:06 AM	3/12/2023 9:52:00 AM
				SVOC by 8270E		3/9/2023 10:27:06 AM	3/16/2023
				Synthetic Organic Compounds by GC/MS (EPA 525.3)		3/15/2023 9:30:00 AM	3/16/2023 3:32:00 PM

Original



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# DATES REPORT

WO#: **23030475**  
**17-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
23030475-008D	PW-207DUPE Duplicate	3/7/2023 12:25:00 PM	Drinking Water	Synthetic Organic Compounds by GC/MS (EPA 525.3)		3/15/2023 9:30:00 AM	3/16/2023 10:06:00 AM
23030475-008E				Alcohols (EPA 8015) C			3/8/2023 1:52:00 PM
				Alcohols (EPA 8015) C			3/8/2023 1:52:00 PM
				Glycols (8015)			3/8/2023 5:34:00 PM
				Glycols (8015)			3/8/2023 5:34:00 PM
23030475-009A	Trip Blank-1			VOC by GC/MS (8260D)			3/8/2023 2:42:00 PM
				VOC Tentatively Identified Compound (TICs)			3/8/2023 2:42:00 PM
23030475-009B				VOC-GC/MS (524.2)			3/8/2023 2:50:00 PM
23030475-009C				EDB, DBCP, 123TCP by GC (EPA 504.2)		3/14/2023 3:15:00 PM	3/15/2023 8:56:00 AM
23030475-010A	Trip Blank-2			VOC by GC/MS (8260D)			3/8/2023 3:06:00 PM
				VOC Tentatively Identified Compound (TICs)			3/8/2023 3:06:00 PM
23030475-010B				VOC-GC/MS (524.2)			3/8/2023 3:16:00 PM
23030475-010C				EDB, DBCP, 123TCP by GC (EPA 504.2)		3/14/2023 3:15:00 PM	3/15/2023 9:16:00 AM
23030475-011A	Trip Blank-3			VOC by GC/MS (8260D)			3/8/2023 3:29:00 PM
				VOC Tentatively Identified Compound (TICs)			3/8/2023 3:29:00 PM
23030475-011B				VOC-GC/MS (524.2)			3/8/2023 3:42:00 PM
23030475-011C				EDB, DBCP, 123TCP by GC (EPA 504.2)		3/14/2023 3:15:00 PM	3/15/2023 9:36:00 AM
23030475-012A	Trip Blank-4			VOC by GC/MS (8260D)			3/8/2023 3:53:00 PM
				VOC Tentatively Identified Compound (TICs)			3/8/2023 3:53:00 PM
23030475-012B				VOC-GC/MS (524.2)			3/8/2023 4:09:00 PM
23030475-012C				EDB, DBCP, 123TCP by GC (EPA 504.2)		3/14/2023 3:15:00 PM	3/15/2023 9:57:00 AM

Original



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

# DATES REPORT

WO#: **23030475**  
**17-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
23030475-013A	Trip Blank-5		Drinking Water	VOC by GC/MS (8260D)			3/8/2023 4:16:00 PM
				VOC Tentatively Identified Compound (TICs)			3/8/2023 4:16:00 PM
23030475-013B				VOC-GC/MS (524.2)			3/8/2023 4:35:00 PM
23030475-013C				EDB, DBCP, 123TCP by GC (EPA 50-		3/14/2023 3:15:00 PM	3/15/2023 10:17:00 AM

Original

Analysis Request / Chain of Custody  
Refer to Terms and Conditions at www.settek.com



SET WO NO.: **23030475**  
For Summit Environmental Technologies, Inc. use only

Client Name: **OHIO EPA - DDAGLW**  
 Client Street Address: **210 E. Aurora Road**  
 City: **Tempsboro** State: **OH** Zip: **44667**  
 Client Phone: **330-963-1150**  
 Contact Person: **JAMES FISHER**  
 Project Identification: **OHIO EPA PWS - EP**  
 Project Street Address: **481 BACON AVE**  
 City: **Eastlake** State: **OH** Zip: **44022**  
 Report To: **JAMES FISHER**  
 Quote Number: **330-963-1150**  
 Facility ID: **JAMES FISHER**  
 Client Email Address: **james.fisher@em.ohio.gov**  
 Sign: **CHRIS MASLOVIC**  
 For DW only, results to be reported to state by day if yes, lab fee may apply:  Y  N

#	Sample Point ID	Sample Identification	Date Collected	Time Collected	Grab Sample	Composite Sample	Matrix: S = Solid, SL = Sludge, L = Liquid, O = Oil, A = Air, NPW = Non-Portable Water, DW = Drinking Water	Preservation: 1) HNO3; 2) H2SO4; 3) HCl; 4) Zinc Acetate; 5) NaOH; 6) EDA; 7) none; 8) other (specify in comments)	Number of Containers per Sample	Analytical Parameters and Methods Requested	(S/R)
1	PW-201	WELL 008	3/17/23	9:30	X		DW		14	524.2, 504.1, 82600, 525, 8270, 8015	X
2	PW-202	RHODES WELL		10:07							
3	PW-203	NUCKE WELL		10:46							
4	PW-204	HARDING WELL		11:10							
5	PW-205	ZUCH WELL		11:53							
6	PW-207	ENTRY POINT		12:25							
7	PW-201A	FIELD BLANK		12:20							
8	PW-207A	DUPLICATE		12:25							

Notes / Comments: **524, 8260-HCL, 504.1-NA2SO3, 525-Ascorbic Acid & Potassium Chromate**  
**\*INVOICE: VILKIE STEVENS - PLEASE @ EPA.OHIO.GOV**  
 Sufficient volume provided to run QC?  YES  NO Cooler?  YES  NO  
 Rush Requested: **7** Day(s) Must be approved by Lab Manager  
 Received Temp: **20.1, 20.4, 20.6, 20.2, 20.5** °C  
 Ice Present?  YES  NO Melted?  YES  NO  
 Received at Summit by: **[Signature]** Date: **03/07/23** Time: **15:32** Carrier: **client**  
 Relinquished by: **[Signature]** Date: **3/17/23** Time: **18:31**





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# Sample Log-In Check List

Client Name: **OEPA-OH-44087** Work Order Number: **23030475** RcptNo: **1**

Logged by:	<b>Anthony W. Britton</b>	<b>3/7/2023 3:32:00 PM</b>	
Completed By:	<b>Anthony W. Britton</b>	<b>3/7/2023 3:57:16 PM</b>	
Reviewed By:	<b>Holly Florea</b>	<b>3/8/2023 11:24:00 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	2.8	Good	Not Present			
2	1.9	Good	Not Present			
3	0.4	Good	Not Present			



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## Sample Log-In Check List

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

Work Order Number: **23030475**

RcptNo: 1

4	2.7	Good	Not Present			
5	2.5	Good	Not Present			