



**Department of Water**  
Division of Water Supply & Treatment

3210 Chuck Wagner Lane  
Dayton, Ohio 45414  
(937) 333 6030 / Fax (937) 333 6025  
[www.daytonohio.gov](http://www.daytonohio.gov)



March 6th, 2018

Dear Water Purveyor,

The USEPA Consumer Confidence Rule requires community water systems to prepare and provide an annual Consumer Confidence Report to their customers. This report provides information about water quality and potential health effects of contaminants.

Public water systems that sell water to other community water systems must deliver specific monitoring and compliance information to buyer systems by April 1. The enclosed document, "City of Dayton Department of Water-2018 Water Quality Report", contains monitoring and compliance information for the year 2017. If you have any questions or would like to receive the full-length pdf version of the report, please email me at [Brandon.Turner@daytonohio.gov](mailto:Brandon.Turner@daytonohio.gov) or call me at (937)333-6093.

Enclosed is an updated copy of this report.

Yours truly,

 **Brandon Turner**  
Acting Water Treatment Technical Supervisor  
Department of Water  
Water Supply & Treatment | City of Dayton  
3210 Chuck Wagner Lane | Dayton, Ohio 45414  
Office 937.333.6093 | Fax 937.234.1568 | [www.daytonohio.gov](http://www.daytonohio.gov)

Enc. City of Dayton Water Quality Report 2018

## City of Dayton Department of Water 2018 Water Quality Report

*We are proud to report that the City of Dayton complied with all MCL\* standards for drinking water during 2017.*

*The following results summarize thousands of tests performed in 2017*

2017 Report			Miami Plant				Ottawa Plant				Sources of Contaminants
Regulated Substance	Highest Level Allowed (MCL)	Ideal Goals (MCLG)	Highest Level Detected	Range of Detection	Violation	Year Sampled	Highest Level Detected	Range of Detection	Violation	Year Sampled	
<b>Regulated at the Treatment Plant</b>											
Fluoride (ppm)	4	4	0.94	0.8-1.09	No	2017	0.95	0.41-1.10	No	2017	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
Nitrate (ppm)	10	10	1.05	0.11-1.05	No	2017	1.63	0.86-1.63	No	2017	Runoff from fertilizer use; Leaching from septic tank, sewage; Erosion of natural deposits
Turbidity (NTU)	TT = 1 TT: > 95% must be < 0.3	N/A	0.08 100% < 0.3 <sup>1</sup>	0.03-0.08	No	2017	0.08 100% < 0.3 <sup>1</sup>	0.02-0.08	No	2017	Lime softening residuals; Soil runoff.
Total Organic Carbon (TOC) (ppm)	TT	N/A	0.62 <sup>2</sup>	0.49-0.78	No	2017	0.52 <sup>2</sup>	0.36-0.64	No	2017	Naturally present in the environment
Barium (ppm)	2	2	0.050	N/A	No	2017	0.036	N/A	No	2017	Erosion of natural deposits; Discharge from metal refineries; Erosion of natural of deposits
<b>Regulated at the Customer's Tap</b>											
Lead (ppb)	AL = 15	0	4.8	No samples >AL ND - 13.9	No	2017	4.8	No samples >AL ND - 13.9	No	2017	Corrosion of household plumbing materials; Erosion of natural deposits
Copper (ppm)	AL = 1.3	1.3	0.042	No samples >AL ND - 0.82	No	2017	0.042	No samples >AL ND - 0.82	No	2017	
<i>90% of samples were less than 4.8 ppb for lead and less than 0.042 ppm for copper. Lead and copper were not detected in most of the water samples. Results from samples collected in 2017.</i>											
<b>Regulated in the Distribution System</b>											
Trihalomethanes (THMs) (ppb)	80 <sup>3</sup>	0	34.65 <sup>3</sup>	16.64-38.07	No	2017	34.65 <sup>3</sup>	16.64-38.07	No	2017	By-product of drinking water chlorination
Halocetic Acids (HAAs) (ppb)	60 <sup>3</sup>	N/A	7.33 <sup>3</sup>	ND-8.63	No	2017	7.33 <sup>3</sup>	ND-8.63	No	2017	By-product of drinking water chlorination
Chlorine (ppm)	MRDL = 4	MRDLG=4	1.12 <sup>4</sup>	0.28-1.94	No	2017	1.12 <sup>4</sup>	0.28-1.94	No	2017	Water additive used to control microbes
Coliform Bacteria (% positive/month)	5%	0	2.9% <sup>5</sup>		No	2017	2.9% <sup>5</sup>		No	2017	Naturally present in the environment
<b>Unregulated Compounds – concentration in ppb &amp; ppm (average and range are shown for water plant effluent samples)</b>											
Bromodichloromethane (ppb)	N/A	N/A	1.55	1.21-1.84	N/A	2017	1.30	1.09-1.56	N/A	2017	By-products of drinking water chlorination
Bromoform (ppb)	N/A	N/A	ND	ND-0.53	N/A	2017	ND	ND-0.57	N/A	2017	
Chloroform (ppb)	N/A	N/A	0.88	0.52-1.32	N/A	2017	0.943	0.72-1.14	N/A	2017	
Dibromochloromethane (ppb)	N/A	N/A	1.40	0.83-1.73	N/A	2017	1.32	1.00-1.61	N/A	2017	

1 Dayton complied with requirements for every month in 2017. Turbidity is a measure of the cloudiness of water and is an indication of the effectiveness of our filtration system. The turbidity limit set by the EPA is 0.3 NTU in 95% of the daily samples and shall not exceed 1 NTU at any time. As reported above, the City of Dayton's highest recorded turbidity result for 2017 at Miami Plant was 0.08 NTU and lowest monthly percentage of samples meeting the turbidity limits was 100%, and at Ottawa Treatment Plant was 0.08 NTU and lowest monthly percentage of samples meeting the turbidity limits was 100%.

2 Dayton complied with alternate compliance criteria for TOC regulations under the D/DBP Rule. The level reported is "average".

3 Highest running annual average.

4 Highest running quarterly average.

5 In 2017 five distribution samples were positive for coliform bacteria. There were 1,522 samples analyzed.

\*MCL = Maximum Contaminant Level – The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

MCLG = Maximum Contaminant Level Goal – The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

NTU = Nephelometric Turbidity Units (measure of "cloudiness")

MRDL = Maximum Residual Disinfectant Level – The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

MRDLG = Maximum Residual Disinfectant Level Goal. The level of drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

TT = Treatment Technique – A required process intended to reduce the level of a contaminant in drinking water.

AL = Action Level – The concentration of a contaminant which, if exceeded, triggers treatment or other requirements for a water system.

pCi/l = picocuries per liter (a measure of radioactivity) ppm = parts per million ppb = parts per billion

N/A = Not applicable ≤ = less than or equal to ≥ = greater than or equal to > = greater than < = less than

ND = Not detected

*City of Dayton Department of Water has a current unconditioned license to operate our public water system.*