

2024 City of Medina

Drinking Water Consumer Confidence Report for the 2023 calendar year

In 2023, the City of Medina had an unconditioned license to operate our water system. The City of Medina has prepared the following report to provide information to you, the consumer, on the quality of our drinking water. Included within this report is general health information, water quality test results, how to participate in decisions concerning your drinking water and water system contacts.

During 2023, The City of Medina has had 2 new water line projects completed.

Since July 2002, Medina has purchased water that is supplied from the City of Avon Lake Water Treatment Plant. During that same year a source water assessment was conducted by Ohio EPA for the Avon Lake Regional Water System. That water is surface water drawn from Lake Erie. For the purposes of source water assessments, all surface waters in Ohio are considered to be susceptible to contamination. Due to the vast size and dilution capabilities of Lake Erie, Ohio EPA evaluated their water's contamination potential based on a Critical Assessment Zone (CAZ) and determined there was no direct source of pollution. Ohio EPA further determined that their source water analysis and emergency operation plan would minimize undetected contamination. Please contact Jason Gibboney at 440 933-3229 if you would like more information about the assessment.

On the following page is a table which lists the various contaminants found in our drinking water. In addition, Avon Lake Water Treatment facility tests for 90 other contaminants, which do not appear in any detectable amount. To safeguard your health, the City of Medina collected 470 bacterial tests throughout the city in 2023 to verify that the water is free of coliform bacteria. We also tested for lead and copper in the water in 2023, and disinfection by-products. Results of these tests are included in the chart on the back. The results of the lead and copper tests were low enough to have the state put us on a triannual monitoring plan and they will not need tested again until 2023.

The sources of drinking water, both tap and bottled water, include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals, and in some cases radioactive material and can pick up substances resulting from the presence of animals or human activity. Contaminants that may be present in source water include (A) Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife;(B) Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban storm runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming; (C) Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm runoff, and residential uses;(D) Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff and septic systems; (E) Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, USEPA prescribes regulations which limits the amounts of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water, which must provide the same protection for public health. Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Agency's Safe Drinking Water Hotline (1-800-428-4791).

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/Aids or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (1-800-428-4791).

We hope that the information provided in this report is helpful to you and gives you some idea of the steps taken to insure the quality of your drinking water. Most of us do not think twice about buying bottled water at a price 2,000 to 10,000 times the price charged for tap water. Yet, we often negatively view a modest tap water rate increase to cover necessary investments for regulatory compliance and infrastructure renewal.

You can help us control costs by reporting suspicious water flows or areas of dampness. Last year, the City experienced 50 water main leaks requiring pipe, valve, or hydrant repairs. Some were high pressure geysers while others barely surfaced as a minor trickle. These add up to lost unused water which costs all of us money. The sooner we know about them, the sooner they can be repaired. Be aware also of the potential for water loss in your own home. A continuous pressurized leak the size of the tip of a pen can waste over 800 gallons of water per day.

Help us also by becoming aware of potential backflow issues. An informational brochure was included with your water bill. This brochure is also available online at <http://www.medinaoh.org/city-services/water-department/back-flow-department>

For additional copies of this report or more information, please contact the City of Medina Service Office at 330-722-9081. To become involved in water issues attend City Council meetings at 132 N. Elmwood Ave. Call 330-725-8861 for a schedule or visit the city's website at <http://www.medinaoh.org/city-hall/city-council/calendar>

CONTAMINANTS (UNITS)	MCLG	MCL	LEVEL FOUND	RANGE OF DETECTIONS	VIOLATION	SAMPLE YEAR	TYPICAL SOURCE OF CONTAMINANTS
MICROBIOLOGICAL CONTAMINANTS							
TURBIDITY (NTU)	NA	TT	0.16	0.02-0.16	NO	2023	SOIL RUNOFF
TURBIDITY (% SAMPLES MEETING STANDARD)	NA	TT	100%	100%	NO	2023	SOIL RUNOFF
TOTAL ORGANIC CARBON (TOC)	NA	TT	1.32	1.0-1.7	NO	2023	NATURALLY PRESENT IN THE ENVIRONMENT
DISINFECTANTS AND DISINFECTION BYPRODUCTS							
TOTAL CHLORINE (PPM)	MRDLG=4	MRDL=4	1.4	1.21-148	NO	2023	WATER ADDITIVE USED TO CONTROL MICROBES
HALOACETIC ACIDS (HAA5) (PPB)	NA	60	26.02	12.2-36.5	NO	2023	BY-PRODUCT OF DRINKING WATER DISINFECTION
TOTAL TRIHALOMETHANES (TTHM) (PPB)	NA	80	47.13	19-75.1	NO	2023	BY-PRODUCT OF DRINKING WATER DISINFECTION
INORGANIC CONTAMINANTS							
BARIUM (PPM)	2	2	0.02	NA	NO	2023	DISCHARGE OF DRILLING WASTES; DISCHARGE FROM METAL REFINERIES; EROSION OF NATURAL DEPOSITS
FLUORIDE (PPM)	4	4	0.69	0.69-1.2	NO	2023	EROSION OF NATURAL DEPOSITS; WATER ADDITIVE WHICH PROMOTES STRONG TEETH; DISCHARGE FROM FERTILIZER AND ALUMINUM FACTORIES
NITRATE (PPM)	10	10	0.96	0.134-.96	NO	2023	RUN OFF FROM FERTILIZER USE, LEACHING FROM SEPTIC TANKS; EROSION OF NATURAL DEPOSITS
LEAD AND COPPER							
	MCLG	ACTION LEVEL (AL)	INDIVIDUAL RESULTS OVER THE AL	90% OF TEST LEVELS WERE LESS THAN	VIOLATION	YEAR SAMPLED	TYPICAL SOURCE OF CONTAMINANTS
LEAD (PPB)	0 PPB	15 PPB	NA	3.12	NO	2023	CORROSION OF HOUSEHOLD PLUMBING SYSTEMS; EROSION OF NATURAL DEPOSITS
ZERO OUT OF 30 SAMPLES WERE FOUND TO HAVE LEAD LEVELS IN EXCESS OF THE LEAD ACTION LEVEL OF 15 PPB							
COPPER (PPM)	1.3 PPM	1.3 PPM	NA	0.740	NO	2023	EROSIONS OF NATURAL DEPOSITS; CORROSIONS OF HOUSEHOLD PLUMBING SYSTEMS
ZERO OUT OF 30 SAMPLES WERE FOUND TO HAVE COPPER LEVELS IN EXCESS OF THE COPPER ACTION LEVEL OF 1.3 PPM							

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In the last quarter of 2023, the City of Medina tested for unregulated contaminants for which the U.S. EPA has not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist EPA in determining the occurrence of these contaminants in drinking water and whether future regulation is warranted. In 2023 Medina City PWS participated in the fifth round of the unregulated contaminant monitoring (UCMR5). All results for tested contaminants were undetectable.

For a copy of the results please call Andy at 330-725-2600

AL= Action Level NA = Not Applicable

NTU = Nephelometric Turbidity Units

Contaminant = Any physical, chemical, biological, or radiological substance in water

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

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

MRDL = Maximum Residual Disinfectant Level: *The highest residual disinfectant level allowed*

MRDLG = Maximum Residual Disinfectant Level Goal: *The highest residual disinfectant level allowed*

Parts per billion (ppb) or Micrograms per Liter (ug/L) are units of measure for concentration of a contaminant. A part per billion corresponds to one second in 31.7 years.

Parts per million (ppm) or Milligrams per Liter (mg/L) are units of measure for concentration of a contaminant. A part per million corresponds to one second in a little over 11.5 days.

TOC = Total Organic Carbon

TT = Treatment Technique

"<" Symbol means less than. A result of <2 means the lowest level that could be detected was 2 and the contaminant in that sample was not detected.

¹Turbidity is a measure of the cloudiness of the water and is an indication of the effectiveness of the filtration system. The turbidity limit set by the EPA is 0.3 NTU in 95% of the samples analyzed each month and shall not exceed 1 NTU at any time. As reported above the Avon Lake Water Treatment Plant highest recorded turbidity result for 2021 was 0.25 NTU and the lowest monthly percentage of samples meeting the turbidity limits was 100%.

²The value reported under "Level Found" for Total Organic Carbon (TOC) is the lowest ratio between percent of TOC actually removed to the percentage of TOC required to be removed. This removal ratio is calculated as the ratio between actual TOC removal and the TOC rule removal requirements and other parameters. A value of at least one (1) indicates that the water system is in compliance with TOC removal requirements.

³If a system collecting fewer than 40 samples per month has two or more positive samples in one month, the system has a MCL violation. Medina is required to take 30 and took an average of 35 per month in 2023. Those samples tested negative so no further action was necessary.

⁴Disinfection by products are the result of providing continuous disinfection of your drinking water and form when disinfectants combine with organic matter naturally occurring in the source water. Disinfection byproducts are grouped into two categories. , Total Trihalomethanes (TTHM) and Haloacetic Acids (HAA5). USEPA sets standards for controlling the levels of disinfectants and disinfectant by products in drinking water, including both TTHMs and HAA5s.

⁵If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. The City of Medina is responsible for providing high quality drinking water but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. Concerned about lead in your water, you may wish to have your water tested. A List of laboratories certified in the State of Ohio to test for lead may be found at <https://www.epa.ohio.gov/ddagw/labcert> or by calling 614-644-2752. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline at 1-800-426-4719 or at <https://www.epa.gov/safewater/lead>.

⁶The City of Medina last sampled for lead and copper in 2023. Based on a history of results below action levels, the City applied for and was granted permission to do triennial sampling. The City will sample again in 2026 for lead and copper.



RUBBISH RATE INCREASE:

Ordinance 88-24 was adopted by City Council on April 22, 2024 and will take effect soon. This is the first increase in rubbish removal rates since 2014.

The monthly rate for residential rubbish removal will increase

* to \$18 effective for bills due after July 1, 2024

* to \$20 effective for bills due after July 1, 2025

Some commercial rates are increasing effective for bills due after July 1, 2025.

For more information including the full text of Ordinance 88-24 please visit <https://medinaoh.org/city-hall/finance> or ACCESS with the QR code

