

City of Conneaut Water Department Drinking Water Consumer Confidence Report for 2021

The City of Conneaut Water Department makes it a priority to supply residents with quality drinking water that is both safe and reliable. Water is tested using advanced equipment and sophisticated methods to ensure that it meets state and federal standards for appearance and safety. The City of Conneaut is pleased to report that the water provided by the City's Water Department meets or exceeds established water-quality standards. This report, which is required by the Safe Drinking Water Act, includes source water description, general health information, water quality testing results, and other helpful information.

Source Water Information - The City of Conneaut Water System uses surface water drawn from one intake in Lake Erie. For the purposes of source water assessments, all surface waters are considered to be susceptible to contamination. By their nature, surface waters are accessible and can be easily contaminated by chemicals and pathogens. Also, compared to ground water, they tend to move swiftly, so an upstream spill may rapidly arrive at the public drinking water intake with little warning or time to prepare. Based on information compiled for this assessment, the Conneaut drinking water protection area is susceptible to contamination from municipal wastewater treatment discharges, industrial waste water discharges, air contamination deposition, runoff from residential and urban areas, contaminated river sediments, oil and gas production and transportation, and accidental releases and spills from rail and vehicular traffic as well as from commercial shipping operations and recreational boating. The threat to water quality from activities in the Potential Influence Zone must be considered relatively low, because the drinking water intake is located at some distance from the shoreline. The threat posed by commercial shipping operations and recreational boating is likely more significant. It is important to note that this assessment is based on available data, and therefore may not reflect current conditions in all cases. Water quality, land uses and other activities that are potential sources of contamination may change with time. Although the source water (Lake Erie) for the Conneaut Public Water System was determined to be susceptible to contamination, historically, the treatment plant has effectively treated this source water to meet drinking water quality standards.

The City of Conneaut Public Water System treats the water to meet drinking water quality standards, but no single treatment technique can address all potential contaminants. The potential for water quality impacts can be further decreased by implementing measures to protect Lake Erie. More detailed information is provided in the City of Conneaut's water system drinking water source assessment report, which can be obtained by calling Richard Neubauer at 440-593-7437.

The sources of drinking water (both tap water 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 from 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 water 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, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration (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 water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (800-426-4791).

Health Information - 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 infection. These people should seek advice about drinking water 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 (800-426-4791).

The EPA requires regular sampling to ensure drinking water safety. The City of Conneaut Water Department conducted sampling for bacteria, inorganic, radiological, and volatile organic contaminants during 2021. Samples were collected for a wide-range of different contaminants, most of which, including algal toxins, were not detected in the City of Conneaut Water Supply. Some of our data, though accurate, are more than one year old.

Monitoring Violation - The Conneaut Public Water System was in violation for failing to conduct required monitoring between March 7, 2021 through March 20, 2021, as required by Ohio EPA, for total microcystins. The City has taken steps to ensure that adequate monitoring will be performed in the future. A public drinking water notice was issued to inform customers of the monitoring violation.

Lead Information - If 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 Conneaut 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. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline (800-426-4791) or at <http://www.epa.gov/safewater/lead>.

Contaminants Table - The table below is a summary of the water quality characteristics for Conneaut for the year 2021. It shows the levels of detected contaminants and their allowable ranges. For example, turbidity is a measure of the cloudiness of the water and is an indication of the effectiveness of 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 below, the City of Conneaut's highest recorded turbidity result for 2021 was 0.12 NTU and lowest monthly percentage of samples meeting the turbidity limit was 100%.

Contaminants (Units)	MCLG	MCL	Level Found	Range of Detections	Violation	Sample Year	Typical Source of Contaminants
Microbiological Contaminants							
Total Organic Carbon	N/A	TT	0.78	0.59-1.83	NO	2021	Naturally present in the environment
Turbidity (NTU)	N/A	TT	0.12	0.02-0.12	NO	2021	Soil Runoff
Turbidity (% meeting standard of 0.3 NTU)	N/A	TT	100%	100%	NO	2021	
Inorganic Contaminants							
Nitrate (ppm)	10	10	0.46	<0.1-0.46	NO	2021	Runoff from fertilizer use, Leaching from septic tanks, sewage; Erosion of natural deposits
Fluoride (ppm)	4	4	1.1	0.87 - 1.13	NO	2021	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer
Barium (ppm)	2	2	0.017 (only sample)	N/A	NO	2021	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Lead (ppb)	0	AL = 15	<2.0 (90 th %)	N/A	NO	2020	Corrosion of household plumbing; Erosion of natural deposits
Zero out of 30 the samples were found to have Lead levels in excess of the Action Level of 15 ppb.							
Copper (ppm)	1.3	AL = 1.3	0.16 (90 th %)	N/A	NO	2020	Erosions of natural deposits; leaching from wood preservatives; Corrosions of household plumbing systems
Zero out of 30 samples were found to have Copper levels in excess of the Action Level of 1.3 ppm.							
Volatile Organic Contaminants (VOCs)*							
TTHMs (ppb)	N/A	80	40.2	11.8-54.1	NO	2020-2021	By-product of drinking water chlorination
HAA5 (ppb)	N/A	60	23.0	8.2-32.6	NO	2020-2021	By-product of drinking water chlorination
Residual Disinfectants							
Total Chlorine	MRDLG = 4	MRDL = 4	1.59	1.31-1.85	NO	2020-2021	Water additive used to control microbes
Unregulated Contaminants (UCs)*							
Bromoform (ppb)	N/A	N/A	0.2 (average)	<0.5 - 0.6	NO	2020-2021	By-product of drinking water chlorination
Bromodichloromethane (ppb)	N/A	N/A	9.0 (average)	4.2-13	NO	2020-2021	By-product of drinking water chlorination
Chloroform (ppb)	N/A	N/A	18 (average)	5.3-35.8	NO	2020-2021	By-product of drinking water chlorination
Dibromochloromethane (ppb)	N/A	N/A	3.8 (average)	2.2-5.8	NO	2020-2021	By-product of drinking water chlorination

*Unregulated contaminants are those for which EPA has not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist EPA in determining the occurrence of unregulated contaminants in drinking water and whether future regulation is warranted.

Definitions/Key

Action Level (AL): The concentration of a contaminant which, if exceeded, triggers a treatment or other requirement which a water system must follow.

Maximum Contaminant Level Goal (MCLG): 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.

Maximum Contaminant Level (MCL): The highest levels 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..

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

Maximum Residual Disinfectant Level Goal (MRDLG): 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.

Microcystins: Liver toxins produced by a number of cyanobacteria. Total microcystins are the sum of all the variants/congeners (forms) of the cyanotoxin microcystin. AL=0.3ppb for children under 6 and sensitive populations. AL=1.6ppb for children 6 and older and adults.

Treatment Technique (TT): A required process intended to reduce the level of a contaminant in drinking water.

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

ppm: Parts per Million 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.

< Symbol: A symbol which means less than. A result of <5 means that the lowest level that could be detected was 5 and the contaminant in that sample was not detected.

NTU: Nephelometric Turbidity Unit

TTHMs: Trihalomethanes

HAA5: Haloacetic Acids

90th %: 90th Percentile

N/A: Not Applicable

While we do not hold regular meetings, customers are encouraged to participate by contacting the Conneaut Water Treatment Plant at 440-593-7437.

FOR MORE INFORMATION, CONTACT THE CONNEAUT WATER TREATMENT PLANT AT 440-593-7437

In 2021, the City of Conneaut maintained an unconditional license to operate our water system.