The Village of Marblehead
Drinking Water Consumer Confidence Report
For 2019

The Village of Marblehead public water system 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.

The Village of Marblehead public water system uses surface water drawn from an intake placed 550 feet out from shore in Lake Erie.

Protecting our source water from contamination is the responsibility of all area residents. Please dispose of hazardous chemicals in the proper manner and report polluters to the appropriate authorities. Only by working together can we ensure an adequate safe supply of water for future generations.

The Village of Marblehead public water system also has an emergency backup connection with the Ottawa County Regional Water System. During 2019 we did not use this connection.

Source Water Protection.
The Village of Marblehead’s 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.

For the purpose of source water assessments, in Ohio all surface waters are considered to be susceptible to contamination. By their nature, surface waters are readily accessible and can be contaminated by chemicals and pathogens which may rapidly arrive at the public drinking water intake with little warning or time to prepare. The Village of Marblehead’s drinking water source protection area contains potential contaminant sources such as home sewage disposal systems discharges, air contaminant deposition, runoff from residential, agricultural and urban areas, and mining operations, as well as accidental releases and spills, especially from commercial shipping operations and recreational boating. More detailed information is provided in the Village of Marblehead’s Drinking Water Source Assessment report, which can be obtained by calling Tony Joyce at 419-798-5836

What are the sources of contamination to drinking water?
The sources of drinking water both tap water and bottled waters 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 water 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, USEPA prescribes regulations which limit the amount 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 water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agencies Safe Drinking Water Hotline (1-800-426-4791).
Who needs to take special precautions
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 (1-800-426-4791).

About your drinking water.
The EPA requires regular sampling to ensure drinking water safety. The Village of Marblehead public water system conducted sampling for bacteria; inorganic; synthetic organic; volatile organic; lead & copper contaminants during 2019. Samples were collected for approximately 42 different contaminants most of which were not detected in the Village of Marblehead water supply.

The Ohio EPA requires us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our data, though accurate, are more than a year old.

The Village of Marblehead has an unconditional license to operate its water plant.
Listed below is information on those contaminants that were found in the Village of Marblehead drinking water.

<table>
<thead>
<tr>
<th>Contaminants (Units)</th>
<th>MCLG</th>
<th>MCL</th>
<th>Level Found</th>
<th>Range of Detections</th>
<th>Violation</th>
<th>Sample Year</th>
<th>Typical Source of Contaminants</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Inorganic Contaminants</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Copper</td>
<td>AL=1.3 ug/l</td>
<td>AL=1.3mg/l</td>
<td>.115 mg/l</td>
<td>N/A</td>
<td>N</td>
<td>2019</td>
<td>Corrosion of household plumbing; erosion of natural deposits; leaching from wood preservatives</td>
</tr>
<tr>
<td>Lead</td>
<td>0 mg/l</td>
<td>AL=15 ug/l</td>
<td>&lt;5.0 ug/l</td>
<td>N/A</td>
<td>N</td>
<td>2019</td>
<td>Corrosion of household plumbing; erosion of natural deposits</td>
</tr>
<tr>
<td>Nitrate</td>
<td>10 mg/l</td>
<td>10 mg/l</td>
<td>1.30 mg/l</td>
<td>0.0 mg/l to 1.30 mg/l</td>
<td>N</td>
<td>2019</td>
<td>Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits</td>
</tr>
<tr>
<td><strong>Volatile Organic Contaminants</strong></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Total-Trihalomethanes</td>
<td>N/A</td>
<td>80 ug/l</td>
<td>58.0 ug/l</td>
<td>12.0 ug/l to 69.3 ug/l</td>
<td>N</td>
<td>2019</td>
<td>By-product of drinking water chlorination</td>
</tr>
<tr>
<td>Haloacetic Acids</td>
<td>N/A</td>
<td>60 ug/l</td>
<td>17.25 ug/l</td>
<td>0 ug/l to 19.0 ug/l</td>
<td>N</td>
<td>2019</td>
<td>By-product of drinking water chlorination</td>
</tr>
<tr>
<td><strong>Bacteriological Contaminants</strong></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Turbidity</td>
<td>N/A</td>
<td>TT NTU</td>
<td>.12 NTU</td>
<td>.03 to .12 NTU</td>
<td>N</td>
<td>2019</td>
<td>Soil runoff</td>
</tr>
<tr>
<td>Total Organic Carbon</td>
<td>TT</td>
<td>TT</td>
<td>2.20</td>
<td>2.20 to 2.58</td>
<td>N</td>
<td>2019</td>
<td>Naturally present in the environment</td>
</tr>
<tr>
<td><strong>Residual Disinfectants</strong></td>
<td></td>
<td></td>
<td></td>
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<td></td>
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<td></td>
</tr>
<tr>
<td>Chlorine</td>
<td>MRDLG = 4 mg/l</td>
<td>MRDL = 4 mg/l</td>
<td>1.66 mg/l</td>
<td>1.48 mg/l to 1.84 mg/l</td>
<td>N</td>
<td>2019</td>
<td>Water additive used to control microbes</td>
</tr>
</tbody>
</table>

TOC
The value reported under “Level Found” for **Total Organic Carbon** (TOC) is the lowest ratio between the percentage of TOC actually removed to the percentage of TOC required to be removed. A value of greater than one (1) indicates that the water system is in compliance with TOC removal requirements. A value less than one (1) indicates a violation of the TOC removal requirements.

**Turbidity**

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 samples analyzed each month and shall not exceed 1 NTU at any time. As reported above the Village of Marblehead public water supply’s highest recorded turbidity result for 2019 was .12 NTU and lowest monthly percentage of samples meeting the turbidity limits was 100%.

**Lead**

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 Village of Marblehead public water system 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. A list of laboratories certified in the State of Ohio to test for lead may be found at [http://www.epa.ohio.gov/ddagw](http://www.epa.ohio.gov/ddagw) 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 800-426-4791 or at [http://www.epa.gov/safewater/lead](http://www.epa.gov/safewater/lead).

**How do I participate in decisions concerning my drinking water?**

Public participation and comment are encouraged at regular meetings of The Village of Marblehead Board of Public Affairs which meets the 2nd Tuesday of each month at the Water Treatment Plant. The meetings start at 7:00 PM. For more information on your drinking water, contact Tony Joyce. at (419) 798-5836.

**Definitions of some terms contained within this report.**

**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 level of contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

MCL=S are set at very stringent levels. To understand the possible health effects described for many regulated contaminants, a person would have to drink 2 liters of water every day at the MCL level for a lifetime to have a one-in-a-million chance of having the described health effect.

**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.

**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.

**Pico curies per Liter (PCi/L):** are units of measure for radioactivity in water.

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

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

**Non-Detects (N/D):** Laboratory analysis indicates that the contaminant is not present.
Nephelometric Turbidity Units (NTU): Nephelometric turbidity unit is a measure of clarity of water. Turbidity in excess of 5NTU is just noticeable to the average person.

Maximum Residual Disinfectant Level (MRDL) The highest residual disinfectant level allowed.

Maximum Residual Disinfectant Level Goal (MRDLG) The level of residual disinfectant below which there is no known or expected risk to health.

In order to maintain a safe and dependable water supply we sometimes need to make improvements that will benefit all of our customers. These improvements are sometimes reflected as rate structure adjustments. Thank you for understanding.

Please share this report with renters or others who may not have gotten one. If you need more copies, please call 419-798-5836.