

Annual Drinking Water Quality Report for 2020

Town of St. Michaels

April, 2021

PWSID 0200006

We're pleased to present to you this year's Annual Water Quality Report. This report is designed to inform you about the water quality and services we deliver to you every day. Our constant goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water.

Our water source is two active wells which draw from an underground source known as the Aquia Aquifer. The depth of our wells are approximately 465 feet. The earth between the surface and this underground aquifer helps to purify the water before it actually reaches the aquifer, making it easier for us to treat before we pump it into our water distribution system.

This report shows our water quality and what it means.

We have a source water protection plan available from our office that provides more information such as potential sources of contamination. This plan is also available through the Talbot County Public Library and from Maryland Department of the Environment (MDE).

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 about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbiological contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

If you have any questions about this report or concerning your water utility, please contact Jeff Richardson at (410) 745-9535. We want our valued customers to be informed about their water utility. If you want to learn more, please attend any of our regularly scheduled Town Commission meetings which are held on the second and fourth Wednesday of each month beginning at 6:00 p.m. in the St. Michaels Town Office Meeting Room.

The Town of St. Michaels routinely monitors for contaminants in your drinking water according to Federal and State laws. This table shows the results of our monitoring for the period of January 1st to December 31st, 2020, or as otherwise indicated. As water travels over the land or underground, it can pick up substances or contaminants such as microbes, inorganic and organic chemicals, and radioactive substances. All drinking water, including bottled drinking water, may be reasonably expected to contain at least small amounts of some constituents. It's important to remember that the presence of these contaminants does not necessarily pose a health risk.

In this table you will find many terms and abbreviations you might not be familiar with. To help you better understand these terms we've provided the following definitions:

Non-Detects (ND) - laboratory analysis indicates that the contaminant is not present.

Picocuries per liter (pCi/L) - picocuries per liter is a measure of the radioactivity in water.

Parts per million (ppm) or Milligrams per liter (mg/l) - one part per million corresponds to one minute in two years or a single penny in \$10,000.

Parts per billion (ppb) or Micrograms per liter - one part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

Action Level - the concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

Maximum Contaminant Level - The “Maximum Allowed” (MCL) is 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.

Maximum Contaminant Level Goal - The “Goal”(MCLG) is 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.

| TEST RESULTS | | | | | | |
|--|---------------|----------------|------------------|------|--------|---|
| Contaminant | Violation Y/N | Level Detected | Unit Measurement | MCLG | MCL | Likely Source of Contamination |
| Stage 2 Disinfection Byproducts: | | | | | | |
| TTHM (Distribution) (2020) (Total trihalomethanes) | N | 13 | ppb | 0 | 80 | By-product of drinking water chlorination |
| HAA5 (Distribution) (2020) (Haloacetic Acids) | N | 2 | ppb | 0 | 60 | By-product of drinking water chlorination |
| Radioactive Contaminants | | | | | | |
| Beta/photon emitters (2016) | N | 9 | pCi/L | 0 | 50 | Decay of natural and man-made deposits |
| Inorganic Contaminants | | | | | | |
| Arsenic (quarterly) Highest Running Annual Average (2020) | N | 0 – 9 6 | ppb | n/a | 10 | Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes |
| Copper (Distribution) (2019) | N | 0.13 | ppm | 1.3 | AL=1.3 | Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives |
| Lead (Distribution) (2019) | N | 5 | ppb | 0 | AL=15 | Corrosion of household plumbing systems, erosion of natural deposits |
| Chlorine (2020) | N | 0.3 | ppm | 4 | 4 | Water Additive used to control microbes |
| Fluoride Well #3 (2020) | N | 0.51 | ppm | 4 | 4 | Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories |

Note: Test results are for year 2020 unless noted otherwise; testing for all contaminants is not required annually.

All sources of drinking water are subject to potential contamination by substances that are naturally occurring or man made. These substances can be microbes, inorganic or organic chemicals and radioactive substances. All 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 Protection Agency’s Safe Drinking Water Hotline at 1-800-426-4791.

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 Town of St. Michaels 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 drinking 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 EPA Safe Drinking Water Hotline at 1-800-426-4791 or at <http://www.epa.gov/safewater/lead>.

NOTE: As can be seen by results listed in the above tables, lead, which is tested for triennial (every 3 years) in accordance with Federal and State Regulations in St. Michaels’s distribution system, was

detected in our most recently collected samples.

On January 23, 2006, the new Arsenic Rule became effective. This rule lowered the MCL from 50 ppb to the current level of 10 ppb. Some people who drink water containing arsenic in excess of the MCL over many years could experience skin damage or problems with their circulatory system, and may have an increased risk of getting cancer.

Arsenic - While your drinking water meets EPA standards for arsenic, it does contain low levels of arsenic. EPA's standard balances the current understanding of arsenic's possible health effects against the costs of removing arsenic from drinking water. EPA continues to research the health effects of low levels of arsenic, which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems.

* The Town of St. Michaels has secured a loan to make improvements to the #2 and #3 wells. Johnston Construction Company has completed the rehabilitation at the #2 and #3 wells in St Michaels. A new green sand filter is in place at the #2 well and a 25,000 gallon back wash tank has been installed at the #3 well and the well is currently in operation. Both wells are operating in compliance.

MCL's are set at very stringent levels. To understand the possible health effects described for many regulated constituents, 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.

Thank you for allowing us to continue providing your family with clean, quality water this year. 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.