

IMPORTANT NOTICE

Consumer Confidence Report

EDGEWATER ACRES/ NANTUCKET POINT SERVICE AREA

2022 ANNUAL DRINKING WATER QUALITY REPORT PWSID # 023-0020

INTRODUCTION

The Water & Wastewater Division of the Worcester County Department of Public Works is responsible for the provision of the safest possible drinking water to its customers in the Nantucket Point Service Area. During the period from January 1 to December 31, 2021, we conducted tests for drinking water contaminants and tested at least once every month for Total Coliform and Fecal Coliform Bacteria as required by Federal and State law. We detected several contaminants and all were found to be significantly below established standards.

This brochure is a snapshot of the quality of the water that was provided to you in 2021. Included are details about the source of your water, what your water contains, and how your water compares with the standards established by the Environmental Protection Agency (EPA) and the Maryland Department of the Environment (MDE). If you have any questions about this report or need additional information concerning the drinking water being supplied to you, please call Gary Serman at 410-641-5251, extension 2415, between 7:30 a.m. and 4:00 p.m. any weekday.

OUR WATER IS SAFE, HOWEVER

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised persons such as persons with cancer who are 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 risks of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

SOURCE OF WATER

We purchased water from Artesian Water Company of Delaware in 2020 and we were supplied by both their South Bethany and Bayville water plants.

INFORMATION

While we do not have regularly scheduled meetings with your community, our personnel are available to answer any questions that you may have or to provide information concerning the operation of the water treatment system. To contact us, you can call Gary Serman at 410-641-5251, extension 2415, or you can write to us at 1000 Shore Lane, Berlin, Maryland 21811.

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. Worcester County 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>.

GENERAL

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 the water before we treat it include:

- *Microbial contaminants*, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations and wild life.
- *Inorganic contaminants*, such as salts and metals, which can be naturally-occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.
- *Pesticides and herbicides*, which may come from a variety of sources such as agriculture, urban storm water runoff and residential uses.
- *Radioactive contaminants*, which are naturally-occurring or be the result of oil and gas production and mining activities.
- *Organic chemical contaminants*, including synthetic and volatile chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.

In order to ensure that tap water is safe to drink, EPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration 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 EPA's Safe Drinking Water Hotline (800-426-4791).

PFAS

PFAS – Short for per and polyfluoroalkyl substances – refers to a large group of more than 4000 human-made chemicals that have been used since the 1940's in a range of products, including stain and water resistant fabrics and carpeting, cleaning products, paints, cookware, food packaging and fire-fighting foams. These uses of PFAS have led to PFAS entering our environment, where they have been measured by several states in soil, surface water, groundwater and seafood. Some PFAS can last a long time in the environment and in the human body and can accumulate in the food chain.

Currently there are no federal regulations (i.e. Maximum Contaminant levels (MCL)) for PFAS in drinking water .However the U.S. Environmental Protection agency (EPA) has issued a Health Advisory Level (HAL) of 70 parts per trillion (ppt) for the sum of PFOA and PFOS concentrations in drinking water. While not an enforceable regulatory standard, when followed, the EPA HAL does provide drinking water customers, even the most sensitive populations, with a margin of protection from lifetime exposure to PFOA and PFOS in drinking water. Beginning in 2020, the Maryland Department of the Environment (MDE) initiated a PFAS monitoring program. The combined PFOA and PFOS concentration from samples taken from our water systems was below the detection limit. MDE anticipates that EPA will establish an MCL for PFOA and PFOS in the near future. This would entail additional monitoring. Additional information about PFAS can be found on the MDE website: mde.maryland.gov

EDGEWATER ACRES / NANTUCKET POINT WATER QUALITY DATA

The table below lists all the drinking water contaminants that we detected during the 2021 calendar year. The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk. Unless otherwise noted, the data presented in this table is from testing done January 1-December 31, 2021. The state requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of the data, though representative of the water quality, is more than one year old.

Terms & abbreviations used below:

- **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 a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.
- **Action Level (AL):** the concentration of a contaminant which, when exceeded, triggers treatment or other requirements which a water system must follow.
- **Action Level Goal (ALG):** The level of a contaminant in drinking water below which there is no known or expected risk to health. ALGs allow for a margin of safety
- **Maximum residual disinfectant level goal or MRDLG:** The level of a 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.
- **Maximum residual disinfectant level or MRDL:** 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.
- **Avg:** Regulatory compliance with some MCLs are based on running average of monthly samples.
- **ppb:** parts per billion or micrograms per liter or one ounce in 7,350,000 gallons • **ppm:** parts per million or milligrams per liter or one ounce in 7,350 gallons of water • **pCi/L:** picocuries per liter (a measure of radiation)
- **mrem:** millirems per year (a measure of radiation absorbed by the body)
- **na:** not applicable.
- **Treatment Technique or TT:** A required process intended to reduce the level of a contaminant in drinking water.
- **Level 1 Assessment:** A level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system.
- **Level 2 Assessment:** A level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why an E.coli MCL violation has occurred and/ or why total coliform bacteria have been found in our water system on multiple occasions.

TEST RESULTS OF REGULATED CONTAMINANTS DETECTED IN THE MARYLAND PORTION OF THE WATER SYSTEM

LEAD AND COPPER	Date sampled	MCLG	Action Level (AL)	90 th Percentile	# Sites over AL	Units	Violation	Likely source of contamination.
Copper	2018	1.3	1.3	0.003	0	ppm	N	Erosion of natural deposits, leaching from wood preservatives, or corrosion of household plumbing systems.
Lead	2018	0	15	2	0	ppb	N	Erosion of natural deposits, or corrosion of household plumbing systems

DISINFECTANTS AND DISINFECTION BY-PRODUCTS	Collection date	Highest level detected	Range of levels detected	MCLG	MCL	Units	Violation	LIKELY SOURCE OF CONTAMINATION
• Haloacetic Acids (HAA5)	2021	10	10.1 – 10.1	No goal for the total	60	ppb	N	By-product of drinking water disinfection.
• Total Trihalomethanes (TTHM)	2021	36	35.9 – 35.9	No goal for the total	80	ppb	N	By-product of drinking water disinfection
Chlorine	2021	0.9	0.6 – 0.9	MRDLG=4	MRDL=4	ppm	N	Water additive used to control microbes.

TEST RESULTS OF REGULATED AND UNREGULATED CONTAMINANTS DETECTED IN THE DELAWARE PORTION OF THE WATER SYSTEM

DISINFECTANTS AND DISINFECTION BY-PRODUCTS	Highest level detected	Range of levels detected	MCLG	MCL	Units	Violation	LIKELY SOURCE OF CONTAMINATION
Haloacetic Acids (HAA5)	29.07	11.08–55.70	No goal for the total	60	ppb	N	By-product of drinking water disinfection.
Total Trihalomethanes (TTHM)	48.40	21.30–95.00	No goal for the total	80	ppb	N	By-product of drinking water disinfection
Chlorine	2.92	0.22 – 2.92	MRDLG=4	MRDL=4	ppm	N	Water additive used to control microbes.
INORGANIC CONTAMINANTS							
Barium	0.058	0.058	2	2	ppm	N	Discharge of drilling waste, discharge from metal refineries, erosion of natural deposits
Fluoride	0.92	0.29 – 0.92	2	2	ppm	N	Erosion of natural deposits, water additive which promotes strong teeth, discharge from fertilizer and aluminum factories.
Cyanide	0.035	0.035	0.2	0.2	ppm	N	Discharge from steel/metal factories; discharge from plastic and fertilizer factories
Nickel	3	3	100	100	ppb	N	Erosion of natural deposits
Nitrate	3.83	3.83	100	100	ppb	N	Runoff from fertilizer use; leaching from septic tanks; sewage; erosion of natural deposits.
RADIOLOGICAL CONTAMINANTS							
Radium, combined	1.9	Nd -1.9	0	5	pCi/L	N	Erosion of natural deposits.

LEAD AND COPPER	MCLG	Action Level (AL)	90 th Percentile	# Sites over AL	Units	Violation	Likely source of contamination.
Copper	1.3	1.3	0.162	1	ppm	N	Erosion of natural deposits, leaching from wood preservatives, or corrosion of household plumbing systems.
Lead	0	15	1.0	1	ppb	N	Erosion of natural deposits, or corrosion of household plumbing systems

EDGEWATER ACRES / NANTUCKET POINT WATER QUALITY DATA

TEST RESULTS OF UNREGULATED CONTAMINANTS DETECTED IN THE DELAWARE PORTION OF THE WATER SYSTEM

UNREGULATED CONTAMINANTS	Average level detected	Range of levels detected	MCL	Units	Violation	LIKELY SOURCE OF CONTAMINATION
Alkalinity, Total	61.4	61.4	N/A	ppm	N/A	
Conductivity	183.5	183.5	N/A	umhos	N/A	
Hardness, Calcium	40	40	N/A	ppm	N/A	
Hardness, Total	47	47	N/A	ppm	N/A	
Phosphate, Total	0.99	0.31 – 2.46	N/A	ppm	N/A	
Sodium	38.4	23.9 – 47.9	N/A	ppm	N/A	
Total Organic Carbon (TOC)	4.30	3.28 – 5.31	N/A	ppm	N/A	

SECONDARY CONTAMINANTS	Average level detected	Range of levels detected	SMCL	Units	Violation	LIKELY SOURCE OF CONTAMINATION
Chloride	27.9	27.9	250	ppm	N/A	
Iron	0.09	0.01 – 0.28	0.3	ppm	N/A	
Manganese	0.042	nd – 0.094	0.05	ppm	N/A	Short term fluctuations due to iron/ manganese removal
pH, field	7.37	6.70 – 8.58	6.5 – 8.5	0 – 14 scale	N/A	
Silver	0.001	Nd – 0.002	0.1	ppm	N/A	
Solids, total dissolved	154	154	500	ppm	N/A	
Sulfate	22.9	22.9	250	ppm	N/A	
Zinc	0.016	0.016	5	ppm	N/A	