



2024 CCR Severn

Severn Water Company 2024

2024 Drinking Water

Quality Report

PWSID: 002-0027



MARYLAND
AMERICAN WATER

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Important Information Concerning Your Drinking Water

We're pleased to present to you the Annual Water Quality Report for 2024. This report is designed to inform you about the water quality and services we deliver to you every day. Maryland Environmental Service, an Agency of the State of Maryland, prepared this report on behalf of the Severn Water Company

The Environmental Protection Agency (EPA) regulates Public Water Systems and the contaminants found in water through the implementation of the Safe Drinking Water Act (SDWA). The SDWA sets regulations and guidelines for how public water systems operate and identifies several hundred drinking water contaminants, establishes monitoring frequencies and limitations. The Maryland Department of the Environment (MDE) is responsible for the enforcement of the SDWA and routinely completes Sanitary Surveys as part of their ongoing inspection and monitoring program. Maryland Environmental Service (MES) provides safe dependable operation of the water system and is dedicated to consistently providing high quality drinking water that meets or exceeds the SDWA standards.

If you have any questions about this report or have questions concerning your water utility, please contact Ayite Amegnikin with Maryland American Water at 703-706-3867.

For More Information:

For the opportunity to ask more questions or participate in decisions that may affect your drinking water quality, please contact **Mr. Robert Freburger with the Severn Water Company at 410-628-1500.**

The Severn Water Company water works consists of two drilled wells in the Patapsco aquifer. After the water is pumped out of the wells, the pH is adjusted and a purifier is added to protect against microbial contaminants. The Maryland Department of the Environment has performed an assessment of the source water. It was determined that Severn Water Company's water supply is not susceptible to inorganic compounds, organic compounds, radionuclides, or microbiological contaminants. A copy of the results is available. Call **Maryland Environmental Service at 410-729-8350.**

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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 microbial contaminants are available from **the Safe Drinking Water Hotline (1-800-426-4791).**

Severn Water Company Treated Water Quality Report 2024

Definitions:

- ◆ **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** - 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.
- ◆ **Turbidity** - Relates to a condition where suspended particles are present in the water. Turbidity measurements are a way to describe the level of “cloudiness” of the water.
- ◆ **pCi/l** - Picocuries per liter. A measure of radiation.
- ◆ **ppb** - Parts per billion or micrograms per liter.
- ◆ **ppm** - Parts per million or milligrams per liter.
- ◆ **ppt** - Parts per trillion or nanograms per liter.

Water Security is Everyone's Responsibility

Water system security continues to be an enormously important issue. If you notice suspicious activities in or around local water utilities, such as persons cutting or climbing facility fencing, loitering, tampering with equipment or other similar activities, please contact your local law enforcement agency immediately by dialing 911.

Special Points of Interest

The water from the Severn Water Company's Water Treatment Plant is tested for over 120 different compounds. Drinking Water, including bottled water, may reasonably be expected to contain at least small amounts of some compounds. The presence of these compounds 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 (EPA's) Safe Drinking Water Act Hotline (1-800-426-4791)**.

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Contaminant	Highest Level Allowed (EPA's MCL)	Highest Level Detected	Goal (EPA's MCLG)
Regulated at the Treatment Plant			
Nitrate	10 ppm	2.7 ppm	10 ppm
Source: Runoff from fertilizer use; natural deposits; Leaching from septic tanks and sewage (Range: 2.3 - 2.7 ppm)			
Mercury (2024 Testing)	2000 ppb	24 ppb	2000 ppb
Source: Erosion of natural deposits, discharge from drilling waste, and metal refineries (Range 18 - 24 ppb)			
Gross Alpha (2020 Testing)	15 pCi/l	2.3 pCi/l*	0.0 pCi/l
Source: Erosion of natural deposits			
Please read page 4 of the Consumer Confidence report for more information on Gross Alpha Emitters			
Gross Beta - (2020 Testing)	50 pCi/l*	4.5 pCi/l**	0.0 pCi/l
Source: Erosion of natural deposits			
EPA considers 50 pCi/L to be the level of concern for beta particles			
* Because the beta particle results were below 50 pCi/l, no testing for individual beta particle constituents was required			
Combined Radium 226 and 228 (2020 Testing)	5 pCi/l	2.0 pCi/l	0.0 pCi/l
Source: Erosion of natural deposits			
Regulated in the Distribution			
Total Trihalomethanes (TTHM) (2024 Testing)	80 ppb	8.9 ppb	n/a
Halooacetic Acids (HAA5) (2024 Testing)	60 ppb	7.6 ppb	n/a
Source: By-product of drinking water disinfection			
Chlorine	4 ppm	1.33 ppm*	4 ppm
Source: Water additive used to control microbes. *Annual Rolling Average (Range: 1.26 - 1.40 ppm)			
Regulated in the Distribution System			
Copper (2024 Testing)	1300 ppb	140 ppb	1300 ppb
The range of 2024 copper results was 7 - 190 ppb. No sites exceeded the action level during this monitoring period.			
Source: Corrosion of household plumbing fixtures and systems, erosion of natural deposits, and leaching from wood preservatives			
Lead (2024 Testing)	15 ppb	<2.0 ppb	0 ppb
The range of 2024 lead results was <2.0 - 3 ppb. No sites exceeded the action level during this monitoring period.			
Source: Corrosion of household plumbing fixtures and systems; Erosion of natural deposits			

The table above lists all the drinking water contaminants that were detected during the 2024 calendar year. The presence of these compounds in the water does not necessarily indicate that the water poses a health risk. Unless otherwise noted, the data presented in the table is from testing done January 1 – December 31, 2024. 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.

Contaminants That May Be Present in Source Water

Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife. Pesticides and Herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses. 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. 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 stormwater runoff, and septic systems. Radioactive Contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.

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Sources of Drinking Water

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.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain compounds in water provided by public water systems. We treat our water according to EPA's regulations. Food and Drug Administration regulations establish limits for contaminants in bottled water which must provide the same protection for public health.



Lead Prevention

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 Severn Water Company is responsible for providing high quality drinking water and removing lead pipes, but cannot control the variety of materials used in plumbing components in your home. You share the responsibility for protecting yourself and your family from the lead in your home plumbing. You can take responsibility by identifying and removing lead materials within your home plumbing and taking steps to reduce your family's risk. Before drinking tap water, flush your pipes for several minutes by running your tap, taking a shower, doing laundry or a load of dishes. You can also use a filter certified by an American National Standards Institute accredited certifier to reduce lead in drinking water. If you are concerned about lead in your water and wish to have your water tested, please contact jjanney@menv.com for a list of laboratories in your area that provide drinking water testing. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available at <http://www.epa.gov/safewater/lead>.

Service Line Inventory

An initial Service Line Inventory was completed for Severn Water and submitted to the Maryland Department of the Environment on 10/15/2024. As a result, the Service Line Inventory requirement was fulfilled. A copy is available upon request by contacting AYITE.AMEGNIKIN@amwater.com.

Important Information Regarding Gross Alpha Emitters

Alpha emitters are naturally occurring radiations in soil, air and water. These emitters generally occur when certain elements decay or break down in the environment. The emitters enter drinking water through various methods including the erosion of natural deposits. There are no immediate health risks from consuming water that contains gross alpha, however some people who drink water containing alpha emitters in excess of the MCL over many years may have an increased risk of getting cancer. As featured in the Water Quality table on page 3, the current highest level of gross alpha detected is 2.3 pCi/L, which is below the 15 pCi/L MCL.

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PFAS – short for per- and polyfluoroalkyl substances – refers to a large group of more than 4,000 human-made chemicals that have been used since the 1940s 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.

The Maryland Department of the Environment (MDE) conducted a PFAS monitoring program for Community Water Systems from 2020 to 2022. No PFAS sampling was conducted for the Severn Water Company Water Treatment System during 2024. The 2022 results are available on MDE’s website: <https://mde.maryland.gov/PublicHealth/Pages/PFAS-Landing-Page.aspx>.

The Environmental Protection Agency (EPA) finalized regulations for 6 PFAS compounds in drinking water in April 2024. The MCLs for PFOA and PFOS are each 4.0 parts per trillion (ppt). The MCLs for PFNA, PFHxS, and HFPO-DA (GenX chemicals) are each 10 ppt. Additionally, a mixture of two or more of the following chemicals (PFNA, PFHxS, HFPO-DA, and PFBS) will be regulated with a Hazard Index of 1 (unitless) to determine if the combined levels of these PFAS pose a risk and require action.

The 5th Unregulated Contaminant Monitoring Rule (UCMR5) began testing for 29 PFAS compounds and lithium in 2023. The Severn Water WTP was tested in June 2024. The UCMR5 should test all community water systems with populations of at least 3300 people. Three randomly selected systems in Maryland with populations less than 3300 people will also be tested under the UCMR5. Detections greater than the minimum reporting levels for each constituent should be reported in the CCR. The Severn Water Company’s WTP June 2024 sample results were all non-detect.

2024 UCMR5 Sample Results

Parameter	Year Sampled	Units	Average Result	Range Detected
Hexafluoropropylene oxide dimer Acid (HFPO-DA)	2024	ppt	<0.005	ND-ND
N-ethyl perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2024	ppt	<0.005	ND-ND
N-methyl perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	2024	ppt	<0.006	ND-ND
Perfluorobutanesulfonic Acid (PFBS)	2024	ppt	<0.003	ND-ND
Perfluorodecanoic Acid (PFDA)	2024	ppt	<0.003	ND-ND
Perfluorododecanoic Acid (PFDoA)	2024	ppt	<0.003	ND-ND

2022 PFAS Sample Results

Parameter	PFOS (ppt)	PFOA (ppt)	PFHxS (ppt)	GenX Chemicals (ppt)	PFNA (ppt)	PFBS (ppt)	Hazard Index (ppt)
Result	<1.0	<1.0	<1.0	<1.0	<1.5	<1.0	0
Limit	4	4	10	10	10	No limit	1.0
Compliant	Yes	Yes	Yes	Yes	Yes	N/A	Yes

If you have any questions about this report or your drinking water, please call Jay Janney at 410-729-8350 or email your request to jjanney@menv.com.





Severn Certification Form



Good Faith distribution effort



YOUR WATER QUALITY REPORT IS NOW AVAILABLE ONLINE

View your water quality report online today!

Each year, Maryland American Water produces a Water Quality Report to let customers know how our water quality stacks up against established federal and state drinking water standards. We encourage you to review this report, because it provides details about the source and quality of the drinking water delivered to your community.

In an effort to be more environmentally responsible, instead of printing the report, your water quality report can be viewed online at:

www.amwater.com/ccr/severn.pdf

For a paper copy, please print one directly from our website or contact our Customer Service Center at 1-866-641-2131.



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