



Route 7 & 40 Water Quality Report for 2022

ARTESIAN WATER MARYLAND • 664 CHURCHMANS ROAD • NEWARK, DELAWARE 19702

PWSID# MD0070032

SPRING 2023

Superior Water Quality

We are pleased to present our annual Water Quality Report for 2022. Each spring this report is published in accordance with the requirements of the United States Environmental Protection Agency (EPA) and the Maryland Department of the Environment (MDE). The Water Quality Report interprets our monitoring and testing data from 2022 and provides valuable information relating to the quality of your water supply. We are proud to report that the water you receive from Artesian again fully complies with national and state drinking water standards.

Since 1905, Artesian has provided high-quality water and superior service to customers throughout the Delmarva Peninsula. Artesian crews work around-the-clock to monitor water quality and supply. Our treatment process includes disinfection, various filtration processes, pH adjustment and corrosion control as needed to ensure our systems meet all applicable state and federal regulations. In addition to treatment, we regularly invest in water quality monitoring and compliance testing by EPA-certified labs and experts in our internal laboratory. Artesian routinely monitors constituents to ensure our water quality is in full compliance with all applicable standards.

We encourage you to take the time to review the report. If you have any questions about this report or the quality of your tap water, call us at (800) 332-5114. Our Customer Service Representatives and our Water Quality Department are ready to assist you.

This report is also available on our website at www.artesianwater.com.

As always, it is our pleasure to serve you.



Route 7 & 40

WATER QUALITY REPORT

Information concerning
public water system

MD0070032



www.epa.gov/watersense/

A Safe Water Source

The Route 7 & 40 public water system is supplied with water purchased from the Town of Elkton. The Town's supply comes from their groundwater wells and the Big Elk Creek, and is supplemented by purchased water from Artesian Water Company (Delaware). The Town of Elkton's complete water quality report can be viewed at <https://www.elkton.org/>

You may also view the Artesian Water Company (DE) water quality report at <https://www.artesianwater.com/wp-content/uploads/wqawc2022.pdf>

The Town of Elkton and Artesian Water Company (DE) both use the best available technology and conduct regular testing to ensure water quality.

Further evaluation of the state's water supply is made available by the Maryland Department of the Environment (MDE), through a program designed to assess the susceptibility of public water sources to contamination. MDE's source water assessment plan has been completed and approved by the EPA. Copies can be obtained by contacting Artesian's Water Quality Department at (800)332-5114 or you can view copies online at the MDE's Source Water Assessment Reports website at: www.mde.state.md.us/programs/Water/Water_Supply/Source_Water_Assessment_Program/Pages/Programs/WaterPrograms/water_supply/sourcewaterassessment/index.aspx

Emerging Contaminants and Proactive Treatment

Artesian takes water quality seriously. To ensure the quality of the water being provided to our customers, we take extra precautions, including proactive testing and treatment when necessary for emerging and unregulated contaminants. Artesian water comes from multiple sources and through an interconnected water system. We routinely monitor our groundwater sources and are capable of shutting down wells to install new treatment when necessary, without any interruption in service. Our rigorous testing program includes daily sampling throughout our system to ensure all treatment processes are working properly and that high-quality water is being provided to our customers.



As water quality has become an increasing priority nationwide, the regulatory landscape has evolved. For over 115 years, Artesian has made delivering safe, secure, high-quality water to customers one of our highest priorities. Advancements in technology and continued analysis have significantly lowered previously acceptable levels of regulated contaminants, and a variety of new contaminants have been added to the list of constituents requiring treatment and removal. The most notable of the newly regulated contaminants are the family of chemicals known as per- and polyfluoroalkyl substances, commonly referred to by the acronym PFAS.

For nearly 10 years, Artesian has been at the forefront of the effort to remove PFAS from water sources. As early as 2013, we conducted rigorous sampling of our sources and began installing treatment capable of removing PFAS. The U.S. Environmental Protection Agency published its proposed PFAS maximum contaminant levels for drinking water in March 2023. Artesian is ahead of the curve, with treatment in place at many of our facilities and several additional projects in progress to install treatment at sites with PFAS levels above the newly proposed standards.

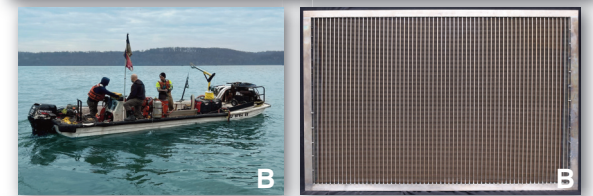
From Water Source to the Tap



Enhancing Artesian's ability to deliver high-quality, reliable water service has remained a primary objective in Cecil County. Our efforts continue to play a critical role in the area's economic development. In 2022, the U.S. Navy's former Bainbridge Naval Training Center site off I-95 was reactivated for development. This 1,200-acre site, which sits above the town of Port Deposit, has been inactive since the Navy decommissioned it in 1976, but it is now being returned to use through commercial and industrial development. (A)

A milestone for Artesian Maryland is the completed installation of a new water intake screen located on the Susquehanna River at our Port Deposit treatment plant. (B) We also finished rehabilitating an existing booster station and installing water mains to serve Phase I of development of the Bainbridge site. Phase I is planned to total 3.75 million square feet of industrial/logistic space on 450 acres.

Further expansion of the Principio Business Park, (C) located between North East and Perryville, is planned upon completion of a new I-95 highway interchange at Belvidere Road, which will be a gateway for continued business activity in Cecil County's designated growth corridor. Groundbreaking on the interchange took place in 2022, and construction is expected to be completed in 2025. To ensure reliable water service as expansion continues at the Principio Business Park, we have moved forward with development of additional wells, which will be placed in service upon issuance of allocation permits by the Maryland Department of the Environment.



SAVE WATER



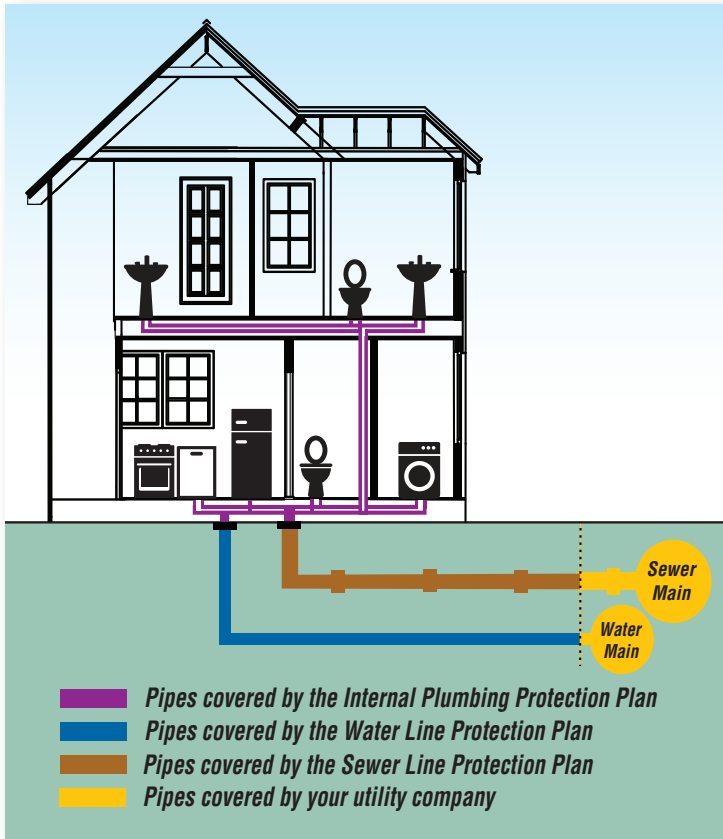
Clean water is one of our most precious natural resources. Artesian knows how valuable water is, and how important it is for all of us to conserve, now and in the future. Teaching the next generation about the water cycle and ways to conserve in your home or garden can be both educational and entertaining.

Check out the links below to access some fun facts and interactive games.

<https://drinktap.org/Kids-Place>

<https://wateruseitwisely.com/kids/>

<https://www.epa.gov/watersense/watersense-kids>



Service Line Protection Plans

We encourage all of our customers to enroll in our Water, Sewer, and Internal Plumbing Protection Plans. Nearly 25% of our customers are currently enrolled in the water service line protection plan and nearly 20% have enrolled in the sewer line protection plan since we began offering them in 2007.

As a homeowner, you are responsible for the maintenance of the water and sewer lines that run from your house to the street, as well as all of the internal water and wastewater pipes within your home. Clogs, breaks, blockages from tree roots, and even pipe collapses can and do happen without warning. Pipes that become clogged can backup systems with raw sewage causing major inconvenience, while breaks and collapses can harm the environment and be expensive and unpleasant to cleanup.

Customers who are informed and prepared contribute to protecting water resources that we all enjoy through responsible care for pipes. **Artesian's Service Line Protection Plans** guarantee an added peace of mind of water, sewer, and internal plumbing protection that can help cover the unexpected costs of repairing and replacing internal wastewater pipes, leaking water lines, and pipe collapses to sewer lines that could cost you thousands of dollars!

The Plans are Easy, Affordable and Convenient

- Emergency expert service repairs around-the-clock, managed by an experienced Artesian team
 - No deductible or hidden service fees
 - No negotiating with contractors or plumbers
 - Easy monthly billing added to your existing water bill

Water Line Protection Plan - \$5.99/month

Sewer Line Protection Plan - \$11.50/month

Internal Plumbing Protection Plan - \$10.99/month

Enroll online at: www.artesianwater.com Or call: **302.453.6930**



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In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of contaminants in water provided by public water systems. The table below lists all of the drinking water contaminants that we detected. Although many more contaminants were tested, only those substances listed below were found in your water. All sources of drinking water contain some naturally occurring contaminants. At low levels, these substances are generally not harmful in our drinking water. Removing all contaminants would be extremely expensive, and in most cases, would not provide increased protection of public health. A few naturally occurring minerals may actually improve the taste of drinking water and have nutritional value at low levels. Unless otherwise noted, the data presented in this table is from testing done in the calendar year of the report. The EPA or the State requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not vary significantly from year to year, or the system is not considered vulnerable to this type of contamination. As such, some of our data, though representative, may be more than one year old. In this table you will find terms and abbreviations that might not be familiar to you. To help you better understand these terms, we have provided the definitions below the table.

	Unit of Measure	Highest Level Allowed (MCL)	Ideal Goal (MCLG)	Highest Level Detected	Range of Level Detected	Sample Date	Violation ?	Likely Source of Contamination
Disinfection/Disinfection By-Products								
Chlorine (free)	ppm	4 (MRDL)	4 (MRDLG) ¹	1.51	0.26 – 1.51	2022	No	Disinfectant used in drinking water industry. Low levels were a one-time occurrence, follow up samples showed normal levels.
Haloacetic Acids, total	ppb	60		43.0 ²	13.3 – 58.1 ³	2022	No	By-product of drinking water chlorination.
Trihalomethanes, total	ppb	80		73.0 ²	13.9 – 111.3 ³	2022	No	By-product of drinking water chlorination.

	Unit of Measure	MCL	Average Level Detected	Range of Level Detected	Sample Date	Violation ?	Likely Source of Contamination
Unregulated Contaminants							
Alkalinity, total	ppm	n/r	38	15– 107	2022	n/a	
Conductivity	umhos	n/r	155	46 – 323	2022	n/a	
Hardness, Calcium	ppm	n/r	33	29 – 45	2022	n/a	
Phosphate, total	ppm	n/r	1.14	0.80 – 1.97	2022	n/a	

	Unit of Measure	SMCL	Average Level Detected	Range of Level Detected	Sample Date	Violation ?	Likely Source of Contamination
Secondary Contaminants							
Iron	ppm	0.3	0.05	nd – 0.09	2022	n/a	
pH, Field	0 - 14 scale	6.5 – 8.5	7.33	6.89 – 7.90	2022	n/a	

Notes For All Contaminants

- The U.S. Environmental Protection Agency sets the MRDLG for chlorine residual at 4 parts per million (ppm). Artesian Water strives to meet a range between 0.5 ppm and 3 ppm.
- Highest 4-quarter average of samples collected and used by the State Water Supply Program for compliance.
- Range includes all samples tested for, whereas highest level detected is based upon the highest 4-quarter average.

Unit Descriptions

- ppm — Parts per million, or milligrams per liter (mg/L)
- ppb — Parts per billion, or micrograms per liter (µg/L)
- pCi/L — Picocuries per liter (a measure of radioactivity)
- umhos — Measurement of conductivity
- n/a — Not applicable
- nd — Not detected
- n/r — Monitoring not required, but recommended

Expected Substances In Drinking Water

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 (1-800-426-4791).

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:

- Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- 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 stormwater runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, which are byproducts 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.

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 regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

If You Have A Special Health Concern

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 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).

PFAS In Drinking Water

PFAS – or 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.

Lead In Drinking Water

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. Artesian 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, contact Artesian Water Quality Department at 302-453-2507. 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>

Radon

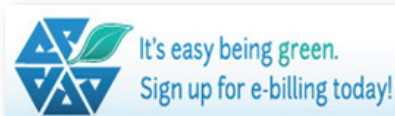
Radon is a radioactive gas that is found in nearly all soils. It typically moves up through the ground to the air and into homes through the foundation. Drinking water from a ground water source can also add radon to the home air.

Community Outreach and Education

People often want to learn more about their water, so Artesian is happy to provide speakers – free of charge – to community organizations, schools and other groups. Our staff of experienced employees can speak about topics such as conservation, water supply and treatment, and related subjects. We also offer our Water Conservation and Education Program to local schools! Visit our website for more information at www.artesianwater.com.

e-Billing

We offer a free e-billing service so you can view, print and pay your water bills online. Currently over 21,000 customers have enrolled in e-billing. If you have not enrolled yet, you can by visiting our website at <http://www.artesianwater.com/e-billing> or contacting our Customer Service Department.



If you have any questions about the contents of this report, please call Artesian toll free at 1 (800) 332-5114 or email at custserv@artesianwater.com. Our Customer Service Representatives and Water Quality Department are ready to assist you. More information about Artesian is available at our website: www.artesianwater.com.

Landlords, apartment managers, businesses, schools, etc. should share this information with others who might not receive this information directly. Consider posting the information in a public place or advise others that the report is available by contacting Artesian by phone or online at www.artesianwater.com.

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