

INTRODUCTION

This annual water quality report or “Consumer Confidence Report” is developed and distributed by Veolia and the Fort Monroe Authority as required by the Safe Drinking Water Act. The Virginia Department of Health, Office of Drinking Water reviewed and approved this annual water quality report. This report explains where your water comes from, what analytical testing shows about it, and other things you should know about your drinking water. Fort Monroe’s goal is to provide you with a safe and dependable supply of drinking water, and we want you to understand the efforts we make to protect your water supply. Drinking water quality must meet state and federal requirements administered by the Virginia Department of Health (VDH). The water is produced by Newport News Waterworks (NNWW) and is treated and tested by state-of-the-art equipment and techniques and meets or exceeds state and federal standards for water quality.

SOURCE WATER ASSESSMENT

The Virginia Department of Health (VDH) updated its Source Water Assessment of Waterworks’ surface water sources in 2020. The report consists of maps showing the source water assessment area, an inventory of known land use activities, potential sources of contamination, a susceptibility explanation chart and definitions of key terms. Using the criteria developed by the state in its approved Source Water Assessment Program, Waterworks’ surface water sources are rated as relatively high in susceptibility to contamination (which is one reason why water treatment is so important), The Source Water Assessment is available from NNWW by calling Customer Service at 757-926-1000 or you can email wwcs@nnva.gov

NEWPORT NEWS WATERWORKS SOURCE WATER

During 2025, the drinking water at Fort Monroe was purchased from Newport News Waterworks (NNWW). The primary source of your drinking water is surface water from the Diascund Creek Reservoir supplemented by the Chickahominy River as dictated by weather patterns. Water is pumped from Diascund Creek Reservoir and/or the Chickahominy river above Walkers Dam and transferred through pipes to NNWW’s reservoirs for storage. NNWW owns and operates five reservoirs that store and supply water to two treatment plants.

WATER TREATMENT

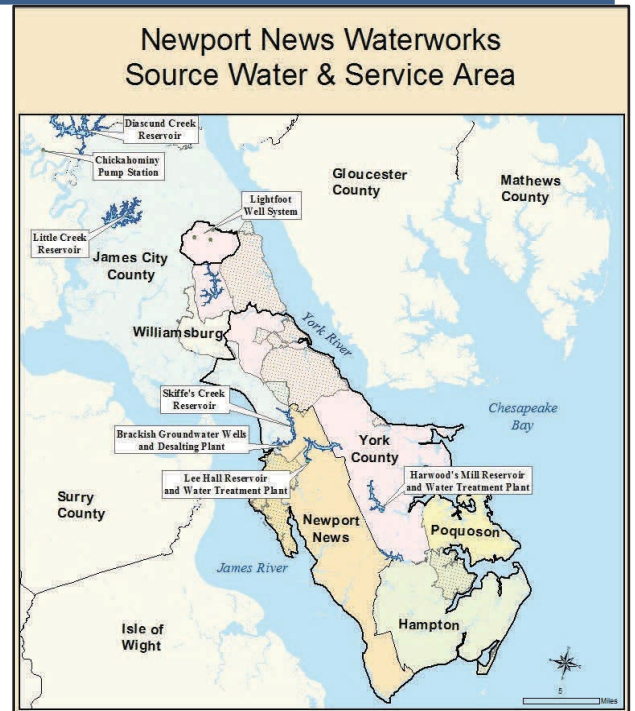
Untreated water is pumped to the treatment plants, where it passes through screens, before aluminum sulfate (alum) and polymer are added. These chemicals cause tiny particles in the water to cling together (coagulation), making the particles easier to remove. After the water is clarified, ozone (disinfection) is added to kill microorganisms such as bacteria and viruses. The water is then sent through filters to remove any remaining particles (filtration). Lime is added to adjust the pH, fluoride is added to prevent tooth decay, and zinc orthophosphate is added to control corrosion inside the pipes. Finally, chloramines, the secondary disinfectant, are added to maintain disinfection through the pipe system while the water travels to your home or business.

GENERAL INFORMATION

Generally speaking, 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 radioactive material and can pick up substances resulting from the presence of animals or from human activity. Substances 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.
- Pesticides & Herbicides** that may come from a variety of sources such as agriculture, stormwater runoff, and residential uses.
- Radioactive Contaminants:** which can be naturally occurring or be the result of oil and gas production and mining activities.

- Organic Chemical Contaminants:** including synthetic and volatile organics, are by-products of industrial processes and petroleum production, and also can come from gas stations, urban stormwater runoff, and septic systems.
- Inorganic Contaminants:** Such as salts and metals, which can be naturally occurring or result from urban storm runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.



WATER QUALITY TESTING

To ensure that tap water is safe to drink, U.S. Environmental Protection Agency (U.S. EPA) regulations limit the amount of certain contaminants in water provided by public water systems. (The U.S. Food and Drug Administration is responsible for setting these limits on bottled water.) The water quality information listed here is based upon tests conducted in 2025 by Waterworks. Samples of finished water were taken at regular intervals from specific locations (the treatment plants, residences, and businesses) across the Waterworks service area.

Every regulated substance that we detected in the water, even in the smallest amounts, is listed in **Table 1** below. Every regulated substance Fort Monroe detected in its water distribution system is listed in **Table 3** on **Page 3**. The tables contain the name of each substance, the highest level allowed by regulation (MCL), the ideal goals for public health (MCLG), the amount detected, the usual sources of such contamination, and whether or not Waterworks meets the set regulation. For help understanding the tables, please see the key terms in the right column and footnotes at the bottom of **Table 3** on **Page 3**. In March 2023, the U.S. EPA proposed the National Primary Drinking Water Regulation (NPDWR) for six PFAS chemicals: PFOA, PFOS, PFNA, GenX, PFHxS, and PFBS. Finalized in early 2024, the regulation establishes a Maximum Contaminant Level (MCL) for PFOA and PFOS at 4.0 parts per trillion (ppt) each, near the detection limit of current analytical instruments. For perspective, 1 ppt—or one nanogram per liter—is equivalent to one teaspoon (5 mL) in 2,000 Olympic-sized swimming pools (2.5 million liters each). Additionally, the EPA set a combined Hazard Index of less than 1 for PFNA, GenX, PFHxS, and PFBS when measured as a mixture. Waterworks customers can be assured that their water meets all current federal and state standards. We are committed to protecting public health and will continue to monitor this issue closely to stay ahead of potential health risks.

DEFINITION OF KEY TERMS IN TABLES

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

MCL (Maximum Contaminant Level): 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.

MCLG (Maximum Contaminant Level Goal): 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.

MRL (Minimum Reporting Level): An estimate of the lowest concentration of a compound that laboratories would report as a detection.

MRDL (Maximum Residual Disinfectant Level): The highest level of a disinfectant allowed in drinking water. The addition of a disinfectant is necessary for microbial contaminant control.

MRDLG (Maximum Residual Disinfectant Level Goal): 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 contamination.

ND (Not Detected): – Does not equate to zero, but refers to an amount below analytical reporting limits.

NTU (Nephelometric Turbidity Unit): A measure of water clarity. Turbidity greater than five (5) NTUs is just noticeable to the average person.

pCi/L (Picocuries per liter): A measure of radioactivity. EPA considers 50 pCi/L to be the level of concern for beta particles.

ppm (Parts per million or milligrams per liter [mg/L]): Equivalent to one penny in \$10 thousand.

ppb (Parts per billion or micrograms per liter [µg/L]): Equivalent to one penny in \$10 million.

ppt (Parts per trillion or nanograms per liter [ng/L]): Equivalent to one penny in \$10 billion.

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

Turbidity: A measure of water clarity serving as an indicator of the treatment facility's performance.

TABLE 1 REGULATED SUBSTANCES - WATER QUALITY TESTING RESULTS: CONTAMINANTS IN NNWW

Contaminant	Unit	EPA's Ideal Goal (MCLG)	Highest EPA Allowed Level (MCL)	Highest Reportable Result (what we found)	Range of Individual Test Results Low - High	Meets State & Federal Standards	Likely Sources
INORGANICS							
Copper	ppm	0	AL = 1.3	0.09/2	0.012 - 0.163	YES	Corrosion of household plumbing
Lead	ppb	0	AL = 15	ND	ND-<1.0	YES	Corrosion of household plumbing
Fluoride	ppm	4	4	0.77	N/A	YES	Added to promote strong teeth
Barium	ppm	2	2	0.026	0.024-0.026	YES	Erosion of natural deposits
Nitrate	ppm	10	10	0.065	0.032-0.065	YES	Erosion of natural deposits
Nitrite	ppm	1	1	0.003	0.002-0.003	YES	Erosion of natural deposits
DISINFECTION BY- PRODUCTS AND PRECURSORS							
Total Trihalomethanes (TTHM)	ppb	0	80	21 ²	10-21	YES	By-product of chlorination
Haloacetic Acids (HAA5)	ppb	0	60	21 ²	6-21	YES	By-product of chlorination
Total Organic Carbon Removal		None	TT	1.69	0.85-1.69	YES	Water additive (disinfectant) used to control microbes
MICROBIOLOGICAL							
Turbidity	NTU	n/a	TT	0.105 ⁴	0.017 - 0.105	YES	Soil runoff
Total Chlorine (Chloramines)	ppm	4	MRDL=4.0	3.3 ⁵	<0.02 - 5.4 ⁵	YES	Water additive (disinfectant) used to control microbes

RADIOLOGICAL (FROM TESTING COMPLETED IN 2022)

Combined Radium-226 & -228	pCi/L	0	5	0.6	0.2 - 0.6	YES	Erosion of natural deposits
Beta emitters	pCi/L	0	4	1.8	1.2 – 1.8	YES	Decay of natural & man-made deposits

TABLE 3—REGULATED SUBSTANCES

WATER QUALITY TESTING RESULTS: FORT MONROE WATER DISTRIBUTION SYSTEM

Contaminant	Unit	Sampling Frequency	MCLG	MCL	Highest Test Results/RAA	Range of Results Low - High	Sources	
Total Trihalomethanes-TTHM	ppb	Quarterly	0	80	12	6-20.3	By-product of drinking water chlorination	
Haloacetic Acids-HAA5	ppb	Quarterly	0	60	2	ND-4	By-product of drinking water chlorination	
Total Chlorine-Chloramines	ppm	Monthly	MRDLG=4.0	MRDLG=4.0	1.36	ND-1.36	Water additive used to control microbes	
Contaminant	Violation (Y/N)						Sources	
Total Coliform Bacteria		Monthly	N/A	TT	#	N	Naturally present in the environment	
Contaminant	Unit	Sampling Frequency	MCLG	Action Level	90 th Percentile Value for all Samples	Range of Results Low - High	# of Sites Exceeded	Sources
Lead	ppb	Triennially	0	15	3 ppb	<1-19 ppb	1	Corrosion of household plumbing; erosion of natural deposits
Copper	ppm	Triennially	1.3	1.3	1.59 ppm	0.023-27.3 ppm	2	Corrosion of household plumbing; erosion of natural deposits

Footnotes:

The State allows Fort Monroe and NNWW to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of the data, though accurate, is more than one year old. Except for radiological testing, which was completed in 2022, the results reported in the table above are for samples taken in 2024-2025. Samples taken in 2024 are part of the required four-quarter or annual running averages. (1) At least 90% of the samples were at or below this level. None of the individual samples exceeded the Action Level. Because our lead and copper levels are so low, we only have to test every three years. Lead and copper testing was completed in 2025. (2) The highest detected levels of THM and HAA are based on a specific location’s four-quarter running average. The range numbers are the results from individual samples. The highest reportable result includes samples from 2024. The range of individual test results are from samples collected in 2025. (3) Compliance is based on a running four-quarter average. The range is the individual monthly ratio from both water treatment plants. TOC has no adverse health effects, but can be a critical component in the formation of disinfection by-products. The data in the “Highest Result” column includes samples from 2024. The range is for samples taken in 2025. (4) Turbidity is a measure of water cloudiness. It is a good indicator of the effectiveness of our filtration system. 100% of samples were within the turbidity limit. (5) For Chloramines, a system-wide annual running average is used. The range numbers are the results of individual samples. The data in the “Highest Result” column includes samples from 2024. The range is for samples taken in 2025.

ABOUT PFAS

Recent national news about a group of synthetic chemicals known as PFAS may have some customers concerned about their drinking water. Waterworks is well aware of the issue and has been conducting water quality testing even before it became news. PFAS stands for per- and polyfluoroalkyl substances. Thousands of PFAS chemicals can be found in many different consumer, commercial, and industrial products: non-stick cookware, waterproof and/or stain-resistant fabrics, firefighting foams, and other items. Consumer products and food are the main sources of exposure to PFAS chemicals. When PFAS chemicals have contaminated water supplies, they may be present in drinking water. Such contamination is typically localized and is often associated with an industrial plant that has produced these chemicals or at an airfield where firefighting foam was used. The watersheds of Waterworks’ reservoirs (i.e., properties upstream of the reservoirs) do not contain industrial PFAS manufacturers. However, airports and military facilities are present. In March 2023, the U.S. EPA proposed the National Primary Drinking Water Regulation (NPDWR) for six PFAS chemicals: PFOA, PFOS, PFNA, GenX, PFHxS, and PFBS. Finalized in early 2024, the regulation establishes a Maximum Contaminant Level (MCL) for PFOA and PFOS at 4.0 parts per trillion (ppt) each, near the detection limit of current analytical instruments. For perspective, 1 ppt—or one nanogram per liter—is equivalent to one teaspoon (5 mL) in 2,000 Olympic-sized swimming pools (2.5 million liters each). Additionally, the EPA set a combined Hazard Index of less than 1 for PFNA, GenX, PFHxS, and PFBS when measured as a mixture. Waterworks customers can be assured that their water meets all current federal and state standards. We are committed to protecting public health and will continue to monitor this issue closely to stay ahead of potential health risks.

TABLE 2 - UNREGULATED SUBSTANCES			UNREGULATED CONTAMINANT MONITORING REGULATION NNWW - 5 (UCMR5) (2025)		
Contaminant	Unit	MRL	Max	Range of Test Results	Sources and Comments
Perfluorobutanoic Acid (PFBA)	ppt	2.0	3.8	2.6 - 3.8	PFAS are a group of synthetic chemicals used in a wide range of consumer products and industrial applications including: non-stick cookware, water-repellent clothing, stain resistant fabrics and carpets, cosmetics, firefighting foams, electroplating, and products that resist grease, water, and oil. PFAS are found in the blood of people and animals and in water, air, fish, and soil at locations across the United States and the world.
Perfluoropentanoic Acid (PFPeA)	ppt	2.0	3.6	2.5 - 3.6	
Perfluorohexanoic Acid (PFHxA)	ppt	2.0	3.5	< 2.0 - 3.5	
Perfluorohexanesulfonic Acid (PFHxS)	ppt	2.0	3.7	< 2.0 - 3.7	
Perfluorooctanesulfonic Acid (PFOS)	ppt	2.0	4.9	3.7 - 4.9	

ABOUT LEAD

Exposure to lead in drinking water can cause serious health effects in all age groups. Infants and children can have decreases in IQ and attention span. Lead exposure can lead to new learning and behavior problems or exacerbate existing learning and behavior problems. The children of women who are exposed to lead before or during pregnancy can have an increased risk of these adverse health effects. Adults can have increased risks of heart disease, high blood pressure, kidney or nervous system problems. We have not detected lead in the treated water tested monthly at either of Waterworks' treatment plants.

Lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water primarily comes from materials and components associated with service lines and home plumbing. Newport News Waterworks is committed to providing high-quality drinking water and removing lead pipes found; however, we cannot control the variety of materials used in private home plumbing. This means you share the responsibility of protecting your family from lead exposure by identifying and removing lead materials in your home and taking precautions to reduce risks. Waterworks take proactive measures to reduce lead exposure. During the treatment process, we add lime to adjust the water's pH and reduce corrosion of plumbing. We also add zinc orthophosphate, a corrosion inhibitor that forms a protective layer inside pipes, preventing lead and other metals from dissolving into the water. Both lime and zinc orthophosphate are harmless to humans, especially in the quantities we use, and effectively help prevent lead contamination. To further minimize potential lead exposure, flush your pipes before drinking tap water. This can be done by running the tap until the water becomes as cold as it will get or by performing other water-using activities like showering, doing laundry, or washing dishes. Using a filter certified by an American National Standards Institute-accredited certifier can also help reduce lead in drinking water. Always use cold water for drinking, cooking, and especially for making baby formula. If you are concerned about lead in your water and wish to have it tested, contact Newport News Waterworks at 757-926-1000. Information on lead in drinking water, testing methods, and steps to minimize exposure is available from the Safe Drinking Water Hotline (800-426-4791) or online at www.epa.gov/safewater/lead.

In 2024, a lead service line inventory was prepared for Fort Monroe. For access to this inventory, please contact Tony Rivera, Project Leader - Fort Monroe at (757) 224-2411.

ADDITIONAL INFORMATION OF INTEREST

Sodium: Sodium - U.S. EPA has not set a standard for sodium in drinking water. However, sodium levels are usually low and unlikely to be a significant contribution to adverse health effects. The average level of sodium found in our treated water in 2025 was 12.6 mg/L and the range was 12.4 - 12.8. Should you have a health concern, please contact your health care provider.

Fluoride: Fluoride is added to water to help prevent tooth decay. Newport News Waterworks adheres to drinking water regulations set by the U.S. EPA and guidance provided by the Virginia Department of Health (VDH). VDH has adopted the recommendation of 0.7 mg/L, set by the U.S. Department of Health and Human Services, as the optimum level of fluoride concentration in drinking water. This is the target Waterworks strives to achieve. Information about fluoridation, oral health, and current issues is available at www.cdc.gov/fluoridation.

Hardness: U.S. EPA has not set a standard for hardness. Water treated by Newport News Waterworks is considered moderately hard (4-6 grains, which is equal to 61-120 mg/L as calcium carbonate or CaCO₃) per American Society of Engineers. In 2025, the average was 69mg/L with a range of 63 - 75.

ABOUT NEWPORT NEWS WATERWORKS REPORT

The Newport Waterworks 2025 Consumer Confidence Report featuring additional test results is available online at: nnva.gov/waterqualityreport. A paper copy of Newport News Waterworks report is also available at all local libraries in the Waterworks service area, in Newport News Waterworks' walk-in services lobby at 700 Town Center Drive in Newport News, and in city halls and county offices in Newport News Waterworks service area. Call 757-926-1000 or email wwcs@nnva.gov

PUBLIC HEALTH PRECAUTIONS

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 Agency's (EPA) Safe Drinking Water Hotline at (800) 426-4791.

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.

Another factor that affects water quality in your home is how "stale" the water is. When you leave your home or business for a long time, as you may when you take a vacation, the water in the pipes and plumbing doesn't move. When water doesn't move, bacteria can grow, and if you have lead or copper plumbing, those metals can start to seep into the water. The best thing to do is run the water on full blast for 30 seconds to two minutes before using it for drinking or cooking. For more details visit www.nnva.gov/2746/Water-Quality.

OPPORTUNITIES

Since NNWW is a department of the City of Newport News, major decisions about your drinking water are made by Newport News City Council. They meet on the second and fourth Tuesdays of each month at 7:00 pm, and you are welcome to attend and participate. These meetings are broadcast live on Newport News City Channel (in Newport News - Cox channel 48 and Verizon FIOS channel 19) and streamed live on Facebook at www.facebook.com/NewprtNewsTV. They also can be viewed live or on-demand by all customers in our service area on the web at www.nnva.gov/2177/Watch

The Fort Monroe Authority (FMA) is a political subdivision of the Commonwealth of Virginia and is governed by a twelve member Board of Trustees. The FMA Board meets no less than quarterly to discuss operations and to make managerial and financial decisions including matters related to the water distribution system on Fort Monroe. You are welcome to attend and participate in these meetings as well. The schedule of upcoming meetings can be found on the web at www.fmauthority.com/public-meetings/meeting-schedule/.

ABOUT FORT MONROE CONSUMER CONFIDENCE REPORT

If you have questions or concerns about Fort Monroe's water or water quality, please contact either Fort Monroe Authority or Veolia via the contacts provided below. You are able to receive additional copies of Fort Monroe's Consumer Confidence Report at the Veolia office.

Fort Monroe Authority
Attn: Public Relations
20 Ingalls Road; Fort
Monroe, VA 23651
757-637-7778

Veolia
Attn: Project Manager
57 Patch Road; Fort
Monroe, VA 23651
757-224-2411

FORT MONROE