# 2023 Annual **WATER QUALITY REPORT**

## ROXBURY SYSTEM PWS ID: NJ1436002

Landlords must distribute this information to every tenant as soon as practicable, but no later than three business days after receipt. Delivery must be done by hand, mail, or email, and by posting the information in a prominent location at the entrance of each rental premises, pursuant to section 3 of P.L. 2021, c. 82 (C.58:12A-12.4 et seq.).





WE KEEP LIFE FLOWING®

## What is a **Consumer Confidence Report (CCR)**

Once again, we proudly present our Annual Water Quality Report, also referred to as a Consumer Confidence Report (CCR). CCRs let consumers know what contaminants, if any, were detected in their drinking water as well as related potential health effects. CCRs also include details about where your water comes from and how it is treated. Additionally, they educate customers on what it takes to deliver safe drinking water and highlight the need to protect drinking water sources.

We are committed to delivering high quality drinking water service. To that end, we remain vigilant in meeting the challenges of source water protection, water conservation, environmental compliance, sustainability and community education while continuing to serve the needs of all our water users.

This report contains important information about your drinking water. Translate it, or speak with someone who understands it at 1-800-272-1325.

Este informe contiene información muy importante sobre su agua potable. Tradúzcalo o hable con alguien que lo entienda bien al 1-800-272-1325.

Ntawm no yog ib co lus qhia tseem ceeb heev txog koj cov dej seb huv npaum li cas. Yog tias koj xav tau kev pab txhais cov lus qhia no, thov hu rau peb ntawm 1-800-272-1325.

這是關於您的水質的十分重要的資訊。如果您需要幫助翻譯此資訊 請致電 1-800-272-1325 與我們聯繫。

आपके पानी की गुणवत्ता के बारे में यह बहुत महत्वपूर्ण सूचना है। यदि इस सूचना के अनुवाद के लिए आपको सहायता की जरूरत हो, तो कृपया **1-800-272-1325** र हमें काल करें।

Это очень важная информация о качестве Вашей воды. Если Вам требуется перевод этой информации, позвоните нам по телефону 1-800-272-1325.

Ito ay isang napakahalagang impormasyon tungkol sa kalidad ng iyong tubig. Kung iyong kailangan ng tulong sa pagsalin ng impormasyon na ito, mangyaring tumawag sa amin sa 1-800-272-1325.

Đây là thông tin rất quan trọng về chất lượng nước của quý vị. Nếu quý vị cần thông dịch thông tin này, xin gọi chúng tôi theo số 1-800-272-1325.

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## A message from New Jersey American Water's President



#### MARK K MCDONOUGH

President, New Jersey American Water To Our Valued Customers:

I am pleased to share with you our 2023 Water Quality Report, which is a testament to the hard work and dedication of our employees. As you read through this information, you will see that we continue to supply high quality drinking water service to help keep your life flowing.

We know that at the end of every water pipe, there's a family depending on us to provide this essential service safely and reliably. New Jersey American Water has the expertise of more than 860 experienced professionals, the right technologies in use, and a demonstrated commitment to upgrading our infrastructure to continue to provide you with clean, safe and reliable water service.

**QUALITY**: We have an exceptional track record when it comes to drinking water regulatory compliance. We test for about 100 regulated compounds, including PFAS, as required by state and federal drinking water standards, as well as unregulated compounds. We are recognized as an industry leader and work cooperatively with the US EPA and the NJ DEP so that implementation of existing standards and development of new regulations produce benefits for our customers. Additionally, five of our water treatment plants have been nationally recognized with Directors Awards from the U.S. EPA's Partnership for Safe Water program for surpassing federal and state drinking water standards.

**SERVICE**: Last year, we invested more than \$507 million to upgrade our water and wastewater systems in the communities we serve. These investments allowed us to improve water quality, pressure and service reliability for our customers. And while our water meets standards, we are committed to removing all lead and galvanized piping from service lines and estimate that the overall effort will be completed prior to 2031 as required by the state's lead service line legislation.

**VALUE**: While costs to provide water service continue to increase across the country, our use of technologies and economies of scale help us provide high quality service at an exceptional value, as water remains one of the lowest household utility bills.

We hope our commitment to you and our passion for water shines through in this report detailing the source and quality of your drinking water in 2023. We will continue to work to help keep your life flowing – today, tomorrow and for future generations.

Proud to be your local water service provider,

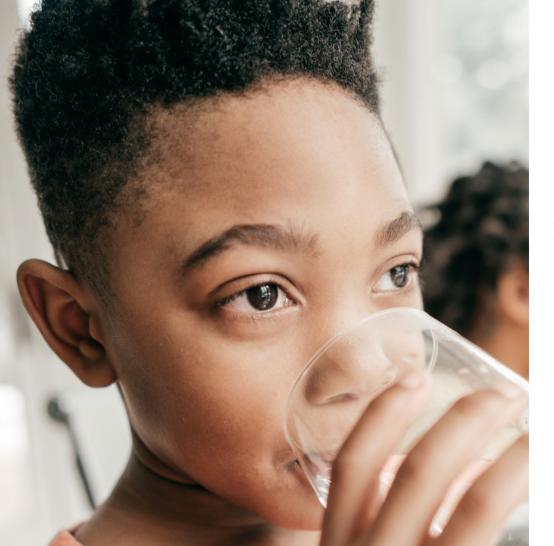
Mark K McDonough New Jersey American Water

This report contains important information about your drinking water. Translate it or speak with someone who understands it at 1-800-272-1325, Monday-Friday, 7 a.m. to 7 p.m.



## ATTENTION: Landlords and Apartment Owners

Please share a copy of this notice with your tenants. It includes important information about their drinking water quality.



Mark of

**Excellence** 

## EVERY STEP OF THE WAY.

Our team monitors and tests your water at multiple points throughout our process of drawing it from its source, treating it to meet drinking water standards, and distributing it through our pipeline systems. In fact, American Water performs over one million tests annually for about 100 regulated contaminants, nationwide.



## EXPERTISE. RECOGNIZED AT THE HIGHEST LEVEL.

American Water is an expert in water quality testing, compliance and treatment and has established industry-leading water testing facilities. Our dedicated team of scientists and researchers are committed to finding solutions for water quality challenges and implementing new technologies. American Water is recognized as an industry leader in water quality and works cooperatively with the EPA so that drinking water standards and new regulations produce benefits for customers and public water suppliers. American Water has earned awards from the EPA's Partnership for Safe Water as well as awards for superior water quality from state regulators, industry organizations, individual communities, and government and environmental agencies.



## WATER QUALITY. DOWN TO A SCIENCE.

Our team also has access to American Water's Central Laboratory in Belleville, Illinois, which conducts sophisticated drinking water testing and analysis. American Water scientists refine testing procedures, innovate new methods, and set new standards for detecting potentially new contaminants—even before regulations are in place.

## MAINTAINING QUALITY FOR FUTURE GENERATIONS.

Just as New Jersey American Water is investing in research and testing, we also understand the importance of investing in the infrastructure that provides high-quality water service to you. Last year alone, we invested more than \$507 million to improve our water and wastewater treatment and pipeline systems.

## About Your Drinking Water Supply

#### WHERE YOUR WATER COMES FROM

The Roxbury System raw drinking water supply is ground water from six wells within the township boundaries. The systems source water comes from the Jacksonburg Limestone, Kittatinny Supergroup and Hardyston Quartzite aquifers, with one source water located within igneous and metamorphic rock. Learn more about local waterways at

www.nj.gov/dep/watersupply/swap/index.html.

The New Jersey Department of Environmental Protection (NJDEP) has completed a source water assessment for the Roxbury System to meet Federal requirements of the Safe Drinking Water Act. The study looked at the drainage area and ranked its vulnerability to contamination. The water supplies are considered vulnerable to agricultural and urban activities. To get a copy of the assessment, contact the NJDEP at (609) 292-5550 or visit: http://www.nj.gov/dep/watersupply/swap/index.html.

#### QUICK FACTS ABOUT THE ROXBURY SYSTEM

#### **Communities served:**

Roxbury Township, sections of Flanders, Kenvil, and Ledgewood

Water source: Six ground water wells

Average amount of water supplied to customers on a daily basis: 1.0 million gallons per day

**Disinfection treatment:** Groundwater supplies are disinfected with chlorine to maintain water quality in the distribution system.



#### SPECIAL HEALTH INFORMATION

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/Centers for Disease Control and Prevention (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 (800-426-4791).

## What are the **Sources of Contaminants**?

To provide tap water that is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. U.S. Food and Drug Administration (FDA) 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 Environmental Protection Agency's Safe Drinking Water Hotline (800-426-4791).

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, aquifers and/or groundwater. 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 storm water runoff, and residential uses.
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.

## Protecting Your Water Sources

#### WHAT IS S.W.A.P.

The Source Water Assessment Program (SWAP) is a program of the New Jersey Department of Environmental Protection (NJDEP) to study existing and potential threats to the quality of public drinking water sources throughout the state. Sources are rated depending upon their contaminant susceptibility.

#### SUSCEPTIBILITY RATINGS FOR NEW JERSEY AMERICAN WATER

The table below illustrates the susceptibility ratings for the seven contaminant categories (and radon) for each source in the system. The table provides the number of wells and intakes that rated high (H), medium (M), or low (L) for each contaminant category. For susceptibility ratings of purchased water, refer to the specific water system's source water assessment report. Source Water Assessment Reports and Summaries available at http://www.nj.gov/dep/watersupply/swap/index.html, or by contacting the NJDEP, Bureau of Safe Drinking Water at 609-292-5550 or watersupply@dep.nj.gov.

#### **CONTAMINANT CATEGORIES**

The NJDEP considered all surface water highly susceptible to pathogens, therefore all intakes received a high rating for the pathogen category. For the purpose of the SWAP, radionuclides are more of a concern for ground water than surface water. As a result, surface water intakes' susceptibility to radionuclides was not determined and a low rating was assigned.

If a system is rated highly susceptible for a contaminant category, it does not mean a customer is or will be consuming contaminated drinking water. The rating reflects the potential for contamination of source water, not the existence of contamination. Public water systems are required to monitor for regulated contaminants and to install treatment if any contaminants are detected at frequencies and concentrations above allowable levels.

As a result of the assessments, the NJDEP may customize (change existing) monitoring schedules based on the susceptibility ratings.

Source water protection is a long-term dedication to clean and safe drinking water. It is more cost effective to prevent contamination than to address contamination after the fact. Every member of the community plays an important role in source water protection. The NJDEP recommends controlling activities and development around drinking water sources, whether it is through land acquisition, conservation easements or hazardous waste collection programs. We will continue to keep you informed of SWAP's progress and developments.

#### SUSCEPTIBILITY CHART DEFINITIONS

- **Pathogens:** Disease-causing organisms such as bacteria and viruses. Common sources are animal and human fecal wastes.
- Nutrients: Compounds, minerals and elements that aid growth, that are both
  naturally occurring and man-made. Examples include nitrogen and phosphorus.
- Volatile Organic Compounds: Man-made chemicals used as solvents, degreasers, and gasoline components. Examples include benzene, methyl tertiary butyl ether (MTBE), and vinyl chloride.
- **Pesticides:** Man-made chemicals used to control pests, weeds and fungus. Common sources include land application and manufacturing centers of pesticides. Examples include herbicides such as atrazine, and insecticides such as chlordane.
- **Inorganics:** Mineral-based compounds that are both naturally occurring and manmade. Examples include arsenic, asbestos, copper, lead, and nitrate.
- Radionuclides: Radioactive substances that are both naturally occurring and manmade. Examples include radium and uranium.
- Radon: Colorless, odorless, cancer-causing gas that occurs naturally in the environment. For more information go to http://www.nj.gov/dep/rpp/radon/index.htm or call (800) 648-0394.
- Disinfection By-product Precursors: A common source is naturally occurring organic matter in surface water. Disinfection by-products are formed when the disinfectants (usually chlorine) used to kill pathogens react with dissolved organic material (for example leaves) present in surface water.

	Sources	I	Pathoge	ens	r	Nutrient	S	P	esticide	s		atile Org ompour		Ir	norganio	s	Rad	ionuclid	es		Radon		B	sinfecti yproduo recurso	rt
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	Wells -6		4	2	4	2			1	5	3		3			6	2	3	1	1	5		3	3	
	GUDI - 0																								
S	urface Water Intakes - 0																								



## Protecting Your Drinking Water Supply

Protecting drinking water at its source is an important part of the process to treat and deliver high quality water. It takes a community effort to protect our shared water resources. This includes utilities, businesses, residents, government agencies and organizations. Everyone who lives, works, and plays in the area has a role and stake in clean water supplies.

## WHAT CAN YOU DO?

Quality drinking water starts upstream. Everyone can help maintain and improve drinking water supplies through the following actions:

- Properly dispose of pharmaceuticals, household chemicals, oils and paints.
   Materials can impact waterways if poured down the drain, flushed down the toilet, or dumped on the ground.
- Check for leaks from automobiles and heating fuel tanks. Clean up any spills using an absorbent material like cat litter. Sweep up the material and put it in a sealed bag. Check with the local refuse facility for proper disposal.
- Clean up after your pets and limit the use of fertilizers and pesticides.
- Take part in watershed activities.

Report any spills, illegal dumping or suspicious activity to NJ DEP Hotline here: 1-877-WARNDEP (1-877-927-6337)

## FOR MORE INFORMATION

To learn more about your water supply and local activities, visit us online at **newjerseyamwater.com**, select **Water Quality**, and click on **Source Water Protection**.

## WHAT ARE WE DOING?

Our priority is to provide reliable, quality drinking water service for customers. The source of supply is an important part of that mission. We work to understand and reduce potential risks to your drinking water supply. At New Jersey American Water, we are working to implement voluntary source water protection plans for many of our water supplies. This is a voluntary program to identify and address potential threats to drinking water supplies. Stakeholder involvement is an important part of the program. We partner with DEP to host annual meetings to review progress on the plan with stakeholders. We also welcome input on the plan or local water supplies through our online feedback form.

## Here are a few of the efforts underway to protect our shared water resources:



**Community Involvement:** We have a proactive public outreach program to help spread the word and get people involved. This includes school education, contests, and other community activities.



**Environmental Grant Program:** Each year, we fund projects that improve water resources in our local communities.

#### **Protect Our Watersheds Art Contest:**



Open to sixth graders, the contest encourages students to use their artistic skills to express the importance of protecting our water resources.

#### **Educational Resources:**



We offer a plethora of educational videos on our YouTube Channel, along with a comprehensive Water Learning Center on our website.

# Six Simple Steps to **Save Water**



#### Fix any leaking faucets.

One drop every 2 seconds from a leaky faucet wastes 2 gallons of water every day. That's water — and money — down the drain.



**Don't let faucets run when brushing, shaving, or washing the dishes.** Just turning off the water while you brush can save 200 gallons a month.



Run washing machines and dishwashers only when they are full, or select the properly-sized wash cycle for the current laundry load.

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**Install water-saving shower heads and faucet aerators** in the bathroom and kitchen (available at most home improvement stores and some supermarkets).



**Don't wash your car at home.** A car wash uses much less water and often recycles it, too.



**Turn off automatic lawn and garden sprinklers** when it's raining outside and at the end of the growing season.

## Every Drop Counts

## About 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. American Water 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 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 Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead.



Please note: This diagram is a generic representation. Variations may apply.

## The most common source of lead in tap water is from the customer's plumbing and their service line.

The utility-owned water mains are not made of lead; however, the water service line that carries the water from the water main in the street to your home could be. Homeowners' service lines may be made of lead, copper, galvanized steel or plastic. You can assess your service line material where it enters your home, typically in your basement, crawl space or garage, near the inlet valve.

## **MINIMIZING YOUR POTENTIAL EXPOSURE**

You cannot see, smell or taste lead, and boiling water will not remove lead. Here are steps you can take to reduce your potential exposure if lead exists in your home plumbing.

## WE'RE COMMITTED TO REPLACING ALL LEAD AND GALVANIZED SERVICE LINES BY THE YEAR 2031.

Visit **newjerseyamwater.com/leadfacts** to learn how to identify your service line material, then scan the QR code to the right to self-report your service line material.



- **1. Flush your taps.** The longer the water lies dormant in your home's plumbing, the more lead it might contain. If the water in your faucet has gone unused for more than six hours, flush the tap with cold water for 30 seconds to two minutes before drinking or using it to cook. To conserve water, catch the running water and use it to water your plants.
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Pb

- 2. Use cold water for drinking and cooking. Hot water has the potential to contain more lead than cold water. If hot water is needed for cooking, heat cold water on the stove or in the microwave.
- 3. Routinely remove and clean all faucet aerators.
- 4. Look for the "Lead Free" label when replacing or installing plumbing fixtures.
- **5.** Follow manufacturer's instructions for replacing water filters in household appliances, such as refrigerators and ice makers, as well as home water treatment units and pitchers. Look for NSF 53 certified filters.
- 6. Flush after plumbing changes. Changes to your service line, meter, or interior plumbing may result in sediment, possibly containing lead, in your water supply. Remove the strainers from each faucet and run the water for 3 to 5 minutes.

## Determining Your Service Line Material

Homeowners' service lines are most commonly made of lead, copper, galvanized steel or plastic. Homes built before 1930 are more likely to have lead plumbing systems.

## There are different ways that you can determine if you have a lead service line.

- You can access your service line material where it enters your home, typically in your basement, crawl space or garage, near the inlet valve and identify the pipe material using the chart on the right.
- A licensed and insured plumber can inspect your pipes and plumbing.
- Lead test kits can be purchased at local hardware and home improvement stores. These kits are used to test paint, but can also be used to test pipe – not the water inside. Look for an EPA recognized kit. Wash your hands after inspecting plumbing and pipes.



#### **TYPES OF PIPE**

<ul> <li>Galvanized: A dull, silver-gray color. Use a magnet - strong magnets will typically cling to galvanized pipes.</li> <li>Copper: The color of a copper penny.</li> <li>Plastic: Usually white, rigid pipe that is jointed to water supply piping with a clamp. Note: It can be other colors, including blue and black.</li> <li>Lead: A dull, silver-gray color that is easily scratched with a coin. Use a magnet - strong magnets will <u>not</u> cling to lead pipes.</li> </ul>	
<ul> <li>Plastic: Usually white, rigid pipe that is jointed to water supply piping with a clamp. Note: It can be other colors, including blue and black.</li> <li>Lead: A dull, silver-gray color that is easily scratched with a coin.</li> </ul>	
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## YOUR SERVICE LINE MATERIAL

At New Jersey American Water, providing safe, reliable water service is our top priority. In July 2021, the state of New Jersey enacted legislation that requires all water providers to share with customers the material of the utility-owned and customer-owned service lines that lead to their property, notify customers with service lines that are lead or galvanized steel, and replace them.

To support this initiative, New Jersey American Water created an interactive map and a robust website to help our customers learn or identify their service line material and the next steps they can take to support this initiative. To learn more about the program and to view the inventory map please visit **newjerseyamwater.com/leadfacts**.

Please note if your service lines contain lead, it does not mean you cannot use water as you normally do. New Jersey American Water regularly tests for lead in drinking water and our water meets state and federal water quality regulations, including those set for lead.

For added protection and to comply with the new legislation, we will be replacing lead and/or galvanized steel piping from service lines over time. For more information on lead in drinking water, please visit **newjerseyamwater.com/leadfacts**.

## Important Information About **Drinking Water**

## **FLUORIDE**

Fluoride is a naturally occurring substance. It can be present in drinking water from two sources:

- **1. By nature** when groundwater comes into contact with fluoride-containing minerals naturally present in the earth; or
- 2. By a water purveyor through addition of fluoride to the water they are providing in the distribution system.

The New Jersey American Water Roxbury System contains low levels of naturally-occurring fluoride in the groundwater, ranging from ND to 0.2 ppm.

If you have any questions on fluoride, please visit **newjerseyamwater.com**, Select **Water Quality** and click on **Fluoride**. You may also call our Customer Service Center at 1-800-272-1325.

## RADON

Radon is a radioactive gas that occurs naturally in some groundwater. It may pose a health risk when the gas is released from water into air, as occurs while showering, washing dishes and performing other household activities. Radon can move up through the ground and into a home through cracks in the foundation. Compared to radon entering the home through soil, radon entering through tap water is, in most cases, a small source of radon in indoor air. Inhalation of radon gas has been linked to lung cancer, however the effects of radon ingested in drinking water are not yet clear. If you are concerned about radon in your home, tests are available to determine the total exposure level. The EPA is developing regulations to reduce radon in drinking water. Radon in the air is inexpensive to test and easy to correct. For additional information call EPA's Radon Hotline at 1-800-SOS-RADON.

## **CHLORINE**

Chlorine is added to water for the customers' protection. It is used as a disinfectant to ensure that harmful organisms, such as bacteria and viruses, are destroyed in the treatment process.

In addition, the New Jersey Department of Environmental Protection (DEP) and the U.S. Environmental Protection Agency (EPA) require New Jersey American Water to maintain low levels of this disinfectant to be present in the water at the furthest point of the distribution system. Our company complies with these minimum levels as the water travels from our treatment facility to your home. Consequently, customers who live or work closest to the facility might experience higher levels of chlorine. We make every attempt to minimize this level, and we frequently perform monitoring at various locations within our system.

New Jersey American Water continues to meet the drinking water standards related to chlorine use in your drinking water set by EPA and DEP in all of its systems.

## **NITRATES**

Nitrate in drinking water at levels above 10 ppm is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. If you are caring for an infant, you should ask advice from your health care provider.



## Important Information About **Drinking Water**

## PFAS

Per- and polyfluoroalkyl substances (PFAS) are manufactured chemicals used in many household products including nonstick cookware (e.g., Teflon™), stain repellants (e.g., Scotchgard™), and waterproofing (e.g., GORE-TEX™). They are also used in industrial applications such as in firefighting foams and electronics production. There are thousands of PFAS chemicals, and they persist in the environment. Two well-known PFAS chemicals are perfluorooctanoic acid (PFOA) and perfluorooctane sulfonic acid (PFOS). These were phased out of production in the United States and replaced by hexafluoropropylene oxide-dimer acid (commonly known as GenX), perfluorobutane sulfonic acid (PFBS) and others.

#### As a leader in the industry, New Jersey American Water has been proactive in our approach to addressing PFAS, in many cases, ahead of New Jersey regulations.

New Jersey American Water has successfully piloted cuttingedge treatment strategies to effectively remove PFAS from several groundwater stations within its service territory. In fact, the company's PFAS removal projects were recognized with three awards, including a Governor's Environmental Excellence Award, and Alliance for Action's Leading Infrastructure Award, and s Commerce and Industry Association of NJ 2021 Environmental Award. To date, New Jersey American Water has installed PFAS treatment at eight groundwater stations within its service territory.

## UNREGULATED CONTAMINANT MONITORING RULE (UCMR)

The EPA created the Unregulated Contaminants Monitoring Rule (UCMR) to assist them in determining the occurrence of unregulated contaminants in drinking water and whether new regulations are warranted.

The first Unregulated Contaminants Monitoring Rule (UCMR1) testing was completed in 2003 for a list of contaminants specified by the EPA. Unregulated contaminants are those for which the EPA has not established drinking water standards. UCMR4 testing began in 2018 and was completed in 2020. UCMR5 requires sample collection for 30 chemical contaminants between 2023 and 2025.

The results from the UCMR monitoring are reported directly to the EPA. More information on the UCMR process, which at this time includes monitoring for 29 PFAS analytes and lithium, is available at <a href="https://www.epa.gov/dwucmr">https://www.epa.gov/dwucmr</a>.

The results of this monitoring are incorporated in the data tables in this report as appropriate. If you are interested in examining the results, please contact New Jersey American Water's Customer Service Center Monday to Friday, 7a.m. to 7p.m. at 1-800-272-1325.

American Water has a history of leading research to understand contaminants that can make their way through the environment. Our dedicated scientists work with leaders in the water community to develop methods to detect, sample, measure and address these contaminants. Because investment in research is critical to address PFAS, American Water actively assesses treatment technologies that can effectively remove PFAS from drinking water.

> Lauren A. Weinrich, Ph.D. Principal Scientist



## Water Quality **Results**

#### WATER QUALITY STATEMENT

We are pleased to report that during calendar year 2023, the results of testing of your drinking water complied with all state and federal drinking water requirements.

For your information, we have compiled a list in the table below showing the testing of your drinking water during 2023. The New Jersey Department of Environmental Protection allows us to monitor for some contaminants less than once per year because the concentration of the contaminants does not change frequently. Some of our data, though representative, are more than one year old.

#### **OTHER INFORMATION**

The data presented in the Table of Detected Contaminants is the same data collected to comply with EPA and New Jersey state monitoring and testing requirements. We have learned through our testing that some contaminants have been detected: however. these contaminants were detected below the levels set by the EPA to protect public health. To assure high quality water, individual water samples are taken each year for chemical, physical and microbiological tests. Tests are done on water taken at the source, from the distribution system after treatment and, for lead and copper monitoring, from the customer's tap. Testing can pinpoint a potential problem so that preventative action may be taken.



#### **MONITORING WAIVERS**

We hope the report will raise your understanding of drinking water issues and awareness of the need to protect your drinking water sources.

The Safe Drinking Water Act regulations allow monitoring waivers to reduce or eliminate the monitoring requirements for asbestos, volatile organic chemicals, and synthetic organic chemicals. The Roxbury system was granted a waiver for asbestos in the 2020-2028 monitoring period and was granted a waiver for synthetic organic chemicals in the 2020-2022 monitoring period. The Roxbury system anticipates receiving a monitoring waiver for synthetic organic chemicals in the 2023 to 2025 period.

## **Definition of Terms**

# These are terms that may appear in your report.

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

**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.

**LRAA:** Locational Running Annual Average

#### 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. See also Secondary Maximum Contaminant Level (SMCL).

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 Residual Disinfectant Level (MRDL): The highest level of disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Maximum Residual Disinfectant Level Goal (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.

MFL: Million fibers per liter.

micromhos per centimeter (µmhos/ cm): A measure of electrical

conductance.

NA: Not applicable

ND: Not detected

#### Nephelometric Turbidity Units (NTU):

Measurement of the clarity, or turbidity, of the water.

**pH:** A measurement of acidity, 7.0 being neutral.

#### picocuries per liter (pCi/L):

Measurement of the natural rate of disintegration of radioactive contaminants in water (also beta particles). **parts per billion (ppb):** One part substance per billion parts water, or micrograms per liter.

**parts per million (ppm):** One part substance per million parts water, or milligrams per liter.

**parts per trillion (ppt):** One part substance per trillion parts water, or nanograms per liter.

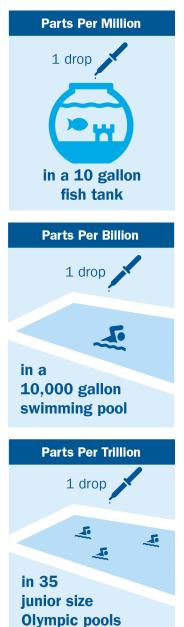
**Secondary Maximum Contaminant Level (SMCL):** Secondary MCLs are set to protect the odor, taste, and appearance of drinking water.

TON: Threshold Odor Number

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

%: Percent

## **MEASUREMENTS**



#### **ROXBURY SYSTEM – PWSID #NJ1436002**

## Water Quality **Results**

New Jersey American Water conducts extensive monitoring to determine if your water meets all water quality standards. The detections of our monitoring are reported in the following tables. While most monitoring was conducted in 2023, certain substances are monitored less than once per year because the levels do not change frequently. For help with interpreting the tables below, see the "Definition of Terms" on the previous page. Some unregulated substances are measured, but maximum contaminant levels have not been established by the government. These contaminants are shown for your information.

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 healthcare 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).

## **TABLE OF DETECTED CONTAMINANTS**

NOTE: Regulated contaminants not listed in this table were not found in the treated water supply.

## **PRIMARY REGULATED SUBSTANCES**

	LEAD AND COPPER MONITORING PROGRAM - At least30 tap water samples collected at customers' taps every three years													
Substance (with units)	Year Sampled	Compliance Achieved	MCLG	Action Level (AL)	90 <sup>th</sup> Percentile	No. of Premises Sampled	Premises Above Action Level	Typical Source						
Lead (ppb)	2021	Yes	0	15	7	33	0	Corrosion of household plumbing systems.						
Copper (ppm)	2021	Yes	1.3	1.3	0.12	33	0	Corrosion of household plumbing systems.						

	DISINFECTANTS - Collected in the Distribution System and at the Treatment Plant													
Substance (with units)	Year Sampled	Compliance Achieved	MRDLG	MRDL	Compliance Result	Range Detected	Typical Source							
Entry Point Chlorine Residual (ppm) <sup>1</sup>	2023	Yes	4	4	0.5 1	0.5 to 1.3	Water additive used to control microbes.							
Distribution System Chlorine Residual (ppm) <sup>2</sup>	2023	Yes	4	4	1²	0.7 to 1.0	Water additive used to control microbes.							

1 - Data represents the lowest residual entering the distribution system from our water treatment plant.

2 - Data represents the highest quarterly running annual average of chlorine residuals measured throughout our distribution system...

## **PRIMARY REGULATED SUBSTANCES**

		DISINFECTION	BYPRODUCTS - Coll	ected in the Distribu	tion System									
Substance (with units)	Year Sampled	Compliance Achieved	MCLG	MCL	Highest Result	Range Detected	Typical Source							
	Total Trihalomethanes (TTHMs) (ppb)													
RWC 1	2023	Yes	NA	80	0	NA	By-product of drinking water disinfection.							
RWC 2	2023	Yes	NA	80	1.5	NA	By-product of drinking water disinfection.							
RWC 3	2023	Yes	NA	80	4.9	NA	By-product of drinking water disinfection.							
RWC 4	2023	Yes	NA	80	0	NA	By-product of drinking water disinfection.							

	OTHER REGULATED SUBSTANCES - Collected at the Treatment Plant													
Substance (with units)	Year Sampled	Compliance Achieved	MCLG	MCL/SMCL	Highest Compliance Result	Range Detected	Typical Source							
Antimony (ppb)	2023	Yes	0	6	0.6	ND to 0.6	Erosion of natural deposits.							
Arsenic (ppb) <sup>3</sup>	2023	Yes	0	5	1	ND to 1	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes.							
Cadmium (ppb)	2023	Yes	0	5	2	NA	Erosion of natural deposits.							
Nitrate (ppm) <sup>4</sup>	2023	Yes	10	10	2	0.3 to 2	Runoff from fertilizer use; industrial or domestic wastewater discharges; erosion of natural deposits.							

3 - While your drinking water meets the EPA's standard for arsenic, it does contain low levels of arsenic. EPA's standard balances the current understanding of arsenic's possible health effects against the cost 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.

4 - Nitrate in drinking water at levels above 10 ppm is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. If you are caring for an infant, you should ask for advice from your health care provider.

		PRIMARY	REGULATED SUBST	ANCES - Radiological	Compounds		
Substance (with units)	Year Sampled	Compliance Achieved	MCLG	MCL	Highest Compliance Result	Range Detected	Typical Source
Radium 228 (pCi/L) <sup>5</sup>	2023	Yes	NA	5	1	ND to 1	Erosion of natural deposits.
Combined Radium -226, - 228 (pCi/L) <sup>5</sup>	2023	Yes	NA	5	1	ND to 1	Erosion of natural deposits.

5 – Some people who drink water containing combined Radium -226 & -228 in excess of the MCL over many years may have an increased risk of getting cancer over many years may also increase the risk of testicular and kidney cancer.

## **PRIMARY REGULATED SUBSTANCES**

		PRIMARY F	REGULATED SUBSTA	NCES - Perfluorinate	d Compounds		
Substance (with units)	Year Sampled	Compliance Achieved	MCLG	MCL	Highest Compliance Result	Range Detected	Typical Source
Perfluorooctanoic Acid (PFOA) (ppt) <sup>6</sup>	2023	Yes	NA	14	4	ND to 4	Discharge from industrial, chemical, and manufacturing factories, release of aqueous film forming foam.
Perfluorooctanesulfonic Acid (PFOS) (ppt) <sup>7</sup>	2023	Yes	NA	13	2	ND to 2	Discharge from industrial, chemical factories, release of aqueous film forming foam.

6 - Some people who drink water containing PFOA in excess of the MCL over many years could experience problems with their blood serum cholesterol levels, liver, kidney, immune system, or, in males, reproductive system. Drinking water containing PFOA in excess of the MCL over many years may also increase the risk of testicular and kidney cancer. For females, drinking water containing PFOA in excess of the MCL over many years may also increase the risk of testicular and kidney cancer. For females, drinking water containing PFOA in excess of the MCL over many years may also increase the risk of testicular and kidney cancer. For females, drinking water containing PFOA in excess of the MCL over many years may cause developmental delays in a fetus and/or an infant.

7 - Some people who drink water containing PFOS in excess of the MCL over many years could experience problems with their immune system, kidney, liver, or endocrine system. For females, drinking water containing PFOS in excess of the MCL over many years may cause developmental effects and problems with the immune system, liver, or endocrine system in a fetus and/or an infant. Some of these developmental effects can persist through childhood.

## **SECONDARY SUBSTANCES**

		Seconda	ry SUBSTANCES - Co	llected at the Treatr	nent Plant <sup>1</sup>		
Substance (with units)	Year Sampled	Compliance Achieved	MCLG	SMCL	Highest Compliance Result	Range Detected	Typical Source
Chloride (ppm)	2023	NA	NA	250	43	ND to 43	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits.
Fluoride (ppm) <sup>2</sup>	2023	NA	NA	2	0.2	ND to 0.2	Erosion from naturally occurring deposits: Used in water softener regeneration.
Manganese (ppb)	2023	NA	NA	50	2	ND to 2	Naturally occurring.
Sodium (ppm) <sup>3</sup>	2023	NA	NA	50	14	6 to 14	Erosion from naturally occurring deposits: Used in water softener regeneration.
Total Hardness (ppm)	2023	NA	NA	250	169	64 to 169	Naturally occurring.
Zinc (ppm)	2023	NA	NA	5	0.02	ND to 0.02	Erosion from naturally occurring deposits.

1 - Substances with Secondary MCLs do not have MCLGs; these limits are primarily established to address aesthetic concerns.

2 - Fluoride is naturally occurring and / or added to the water at therapeutic levels (0.6-1.0 ppm) in certain areas. Please see additional information on fluoride within this report.

3 - For healthy individuals the sodium intake from water is not important because a much greater intake of sodium takes place from salt in the diet. However, sodium levels above the recommended upper limit may be of concern to individuals on a sodium restricted diet.



## **About Us**

**American Water (NYSE: AWK)** is the largest regulated water and wastewater utility company in the United States. With a history dating back to 1886, We Keep Life Flowing<sup>®</sup> by providing safe, clean, reliable and affordable drinking water and wastewater services to more than 14 million people with regulated operations in 14 states and on 18 military installations. American Water's 6,500 talented professionals leverage their significant expertise and the company's national size and scale to achieve excellent outcomes for the benefit of customers, employees, investors and other stakeholders.

**New Jersey American Water**, a subsidiary of American Water, is the largest investor-owned water utility in the state, providing high-quality and reliable water and wastewater services to approximately 2.9 million people. For more information, visit **newjerseyamwater.com** and follow us on X, Facebook, Instagram and YouTube.



#### NEW JERSEY AMERICAN WATER FACTS AT A GLANCE

COMMUNITIES SERVED

More than 190 communities in 18 counties. We also provide water service to 30 additional communities through bulk purchase water agreements.

CUSTOMERS SERVED

Approx. 668,000 water customers (91% residential, 7% commercial and industrial); 64,200 wastewater service customers

- EMPLOYEES
   More than 860
- TREATMENT FACILITIES
   Water: Seven surface water treatment plants and 222 wells
   Wastewater: 21 sewer treatment plants
- MILES OF PIPELINE
   9,353 miles of water main and
   579 miles of sewer main
- SOURCE OF SUPPLY 75% surface water, 21% groundwater and 4% purchased water
- VALVES 178,600
- **FIRE HYDRANTS** 48,529

## How to Contact Us

If you have any questions about this report, your drinking water, or service, please contact New Jersey American Water's Customer Service Center Monday to Friday, 7 a.m. to 7 p.m. at 1-800-272-1325.



New Jersey American Water www.newjerseyamwater.com

New Jersey Department of Environmental Protection Water Resource Management www.nj.gov/dep/wrm/

New Jersey Board of Public Utilities www.state.nj.us/bpu 1-800-624-0241

United States Environmental Protection Agency (USEPA): <a href="http://www.epa.gov/safewater">www.epa.gov/safewater</a>

Safe Drinking Water Hotline: (800) 426-4791

Centers for Disease Control and Prevention: www.cdc.gov

American Water Works Association: www.awwa.org

Water Quality Association: www.wqa.org

This report contains important information about your drinking water. Translate it, or speak with someone who understands it at 1-800-272-1325.

This report contains important information about your drinking water. Translate it, or speak with someone who understands it at 1-800-272-1325.

Este informe contiene información muy importante sobre su agua potable. Tradúzcalo o hable con alguien que lo entienda bien al 1-800-272-1325.

Ntawm no yog ib co lus qhia tseem ceeb heev txog koj cov dej seb huv npaum li cas. Yog tias koj xav tau kev pab txhais cov lus qhia no, thov hu rau peb ntawm 1-800-272-1325.

這是關於您的水質的十分重要的資訊。如果您需要幫助翻譯此資訊 請致電 1-800-272-1325 與我們聯繫。

आपके पानी की गुणवत्ता के बारे में यह बहुत महत्वपूर्ण सूचना है। यदि इस सूचना के अनुवाद के लिए आपको सहायता की जरूरत हो, तो कृपया **1-800-272-1325** र हमें काल करें।

Это очень важная информация о качестве Вашей воды. Если Вам требуется перевод этой информации, позвоните нам по телефону 1-800-272-1325.

Ito ay isang napakahalagang impormasyon tungkol sa kalidad ng iyong tubig. Kung iyong kailangan ng tulong sa pagsalin ng impormasyon na ito, mangyaring tumawag sa amin sa 1-800-272-1325.

Đây là thông tin rất quan trọng về chất lượng nước của quý vị. Nếu quý vị cần thông dịch thông tin này, xin gọi chúng tôi theo số 1-800-272-1325.