



2023 Annual  
**WATER QUALITY  
REPORT**

**Suck Creek Water Treatment Plant**  
PWS ID: 0000909

**QUALITY. ONE MORE WAY  
WE KEEP LIFE FLOWING.**



**TENNESSEE  
AMERICAN WATER**

**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 1-866-736-6420.

Este informe contiene información muy importante sobre su agua potable. Tradúzcalo o hable con alguien que lo entienda bien al 1-866-736-6420.

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 pab ntawm 1-866-736-6420.

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 **1-866-736-6420** 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 **1-866-736-6420** र हमें काल करें।

**Это очень важная информация о качестве Вашей воды. Если Вам требуется перевод этой информации, позвоните нам по телефону 1-866-736-6420.**

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 1-866-736-6420.

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 1-866-736-6420.

## TABLE OF CONTENTS

What is a Consumer Confidence Report	2
A message from our President	3
Mark of Excellence	4
About Your Drinking Water Supply	5
What are the Sources of Contaminants?	6
Protecting Your Drinking Water Supply	7
About Lead	8 - 9
Important Information About Your Water	10
• PFOA/PFAS	
• Fluoride	
Water Quality Results	11
Definitions of Terms Used in Document	12
Water Quality Results: Detailed Charts	13-15
Six Steps to Save Water	16
About Us	17
Contact Us	18

## A message from Tennessee American Water's President



**Grant A. Evitts**

President, Tennessee  
American Water

Dear Tennessee American Water Customer,

Having access to safe, reliable water service is something that can be easily taken for granted. At Tennessee American Water, it's our top priority.

I am pleased to share with you our 2023 Consumer Confidence Report, which is a testament to the hard work and dedication of our employees.

As you read through this annual water quality information, you will see that we continue to supply high quality drinking water service to keep your life flowing. We monitor and test 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, we test for about 100 regulated contaminants as required by state and federal drinking water standards.

**QUALITY:** We take water quality so seriously that our water treatment plant has been nationally recognized for over 23 years with Directors Awards from the U.S. Environmental Protection Agency's (EPA) Partnership for Safe Water program for surpassing federal and state drinking water standards. We remain committed to protecting our sources of drinking water. We utilize advanced technology and detection methods that are paving the way for source water protection across the country.

**SERVICE:** In 2023, we invested over \$35 million to upgrade our water treatment and pipeline systems in the communities we serve. These investments allow us to improve water quality, water pressure, fireflow capacity and service reliability for our customers.

**VALUE:** While costs to provide water service continue to increase across the country, our investments help us provide high quality water service that remains an exceptional value for such an essential service. 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 keep your life flowing – today, tomorrow and for future generations.

Proud to be your local water service provider,

A handwritten signature in blue ink that reads "Grant A. Evitts". The signature is written in a cursive, flowing style.

Grant A. Evitts  
Tennessee American Water

**This report contains important information about your drinking water. Translate it or speak with someone who understands it at (866) 736-6420, 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.

We monitor and test 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. We are recognized as an industry leader in water quality and work 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.

We also have access to American Water's Central Laboratory in Belleville, Illinois, which conducts sophisticated drinking water testing and analysis. Here, American Water scientists refine testing procedures, innovate new methods, and look for ways to detect potentially new contaminants—even before regulations are in place.



### MAINTAINING QUALITY FOR FUTURE GENERATIONS.

Just as Tennessee 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 over \$35 million to improve our water treatment and pipeline systems.**

# About Your Drinking Water Supply

## WHERE YOUR WATER COMES FROM

Your water, which is ground water, comes from a Cambrian-Ordovician carbonate the type aquifer from two water supply wells located on Suck Creek Mountain. To supplement your supply, we also purchase water from Lone Oak Utility District whose original source is Hixson Utility District. Hixson Utility District draws ground water from a Cambrian-Ordovician carbonate type aquifer in the Chickamauga watershed. Our goal is to protect our water from contamination, and we are working with the state to determine the vulnerability of our water source to potential contamination. Learn more about local waterways at <https://mywaterway.epa.gov/>. The Tennessee Department of Environment and Conservation (TDEC) has prepared a Source Water Assessment Program (SWAP) Report for the untreated water sources serving this water system. The SWAP Report assesses the susceptibility of untreated water sources to potential contamination.

To ensure safe drinking water, all public water systems treat and routinely test their water. Water sources have been rated as reasonably susceptible (high), moderately susceptible (moderate) or slightly susceptible (low) based on geologic factors and human activities in the vicinity of the water source. Tennessee American Water source is rated as reasonably susceptible to potential contamination.

An explanation of Tennessee's SWAP, the Source Water Assessment summaries, susceptibility scorings and the overall TDEC report to EPA can be viewed online at <https://www.tn.gov/environment/program-areas/wr-water-resources/water-quality/source-water-assessment.html> or contact TDEC EAC at 1-888-891-8332 (1-888-891-TDEC) to obtain copies of specific assessments. Tennessee American Water can also be contacted at 1-866-736-6420 to obtain a copy of the source water assessment specifically for our company.

**Protecting our Vital Wellhead Area** Suck Creek Water System recognizes its responsibility to protect its wellhead area. No chemicals other than water treatment chemicals will be stored within 750 feet of the wellhead, and the Utility will not apply chemicals on property it owns within 100 feet of the water sources. Applicable signs will be posted. Further, activity within our wellhead management area will be continuously monitored; all discrepancies will be reported to the Tennessee Division of Water Supply. Please call Tennessee American Water at 1-866-736-6420 between 7 AM and 7 PM for more information on this plan.



## QUICK FACTS ABOUT THE SUCK CREEK SYSTEM

**Communities served:**  
Suck Creek Mountain

**Water source:**  
Cambrian-Ordovician carbonate aquifer from two water supply wells (groundwater)

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

**Disinfection treatment:**  
Groundwater supplies are disinfected with chlorine.



## What are the Sources of Contaminants?

To provide tap water that is safe to drink, EPA and the Tennessee Department of Environment and Conservation 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.

### 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).

### CONTAMINANTS THAT MAY BE PRESENT IN SOURCE WATER INCLUDE:

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



# 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 water ways 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 the Tennessee Department of Environment & Conservation:** 1-888-891-8332 or [Ask.TDEC@tn.gov](mailto:Ask.TDEC@tn.gov)

## FOR MORE INFORMATION

To learn more about your water supply and local activities, visit us online at [tennesseamwater.com](http://tennesseamwater.com) or contact us or contact the regional Source Water Protection Lead, Thalika Hollingsworth at [thalika.saintil@amwater.com](mailto:thalika.saintil@amwater.com)

## 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. In addition to the Source Water Protection Plan we have developed under the Tennessee Source Water Assessment Program (SWAP), we work with organizations to support their work in protecting our water sources. We believe that everyone plays a role and by partnering with environmental organizations, we help spread awareness of ways individuals can make a positive impact. Examples of the types of activities we support include river, stream and creek clean ups, “skip the straw” awareness to reduce microplastics, bank stabilization and prevention of run-off, and benefits of gardening with native plants.

**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.

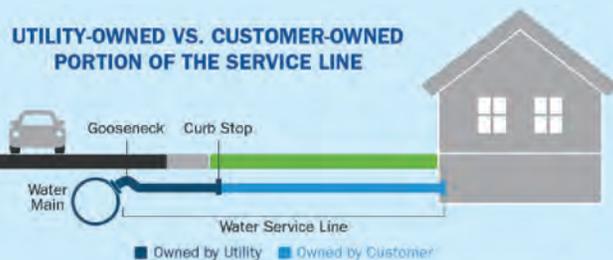


**Pharmaceutical Collection:** We partner with local law enforcement & drug abuse prevention organizations to sponsor Drug Take Back events in our community. These events as well as local permanent lock boxes offer residents a way to safely dispose of unwanted drugs for free. This helps keep pharmaceutical products from entering water supplies. Learn more [here](#).



# 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.

### CHECK YOUR PLUMBING AND SERVICE LINE

If you live in an older home, consider having a licensed plumber check your plumbing for lead. If your service line is made of lead, and you're planning to replace it, be sure to contact us at [tawleadinquiries@amwater.com](mailto:tawleadinquiries@amwater.com)



**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.



**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 style="list-style-type: none"> <li>Galvanized: A dull, silver-gray color. Use a magnet - strong magnets will typically cling to galvanized pipes.</li> </ul>
	<ul style="list-style-type: none"> <li>Copper: The color of a copper penny.</li> </ul>
	<ul style="list-style-type: none"> <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> </ul>
	<ul style="list-style-type: none"> <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>

## YOUR SERVICE LINE MATERIAL

Please note if your service lines contain lead, it does not mean you cannot use water as you normally do. Tennessee American Water continues to meet all state and federal water quality regulations stipulated in the Lead and Copper Rule (<https://www.epa.gov/dwreginfo/lead-and-copper-rule>). We also have a corrosion control program that mitigates interactions between pipe material and distributed water. Our most recent lead and copper program was completed in 2021. All homes with service lines containing lead from our state-approved sampling sites did not exceed the action level for lead. If you're wanting to have your water tested, here's a list of state-approved laboratories for drinking water analyses:

[https://www.tn.gov/content/dam/tn/environment/water/drinking-water-unit/wr\\_wq\\_dw\\_approved-commercial-labs.pdf](https://www.tn.gov/content/dam/tn/environment/water/drinking-water-unit/wr_wq_dw_approved-commercial-labs.pdf)

Plastic	Galvanized	Copper	Lead
			
<p><b>Color:</b> May be white, black, blue or grey. May have identification on sidewall indicating type of plastic</p> <p><b>Scratch test:</b> Not needed</p> <p><b>Magnet:</b> Will <b>NOT</b> stick</p> <p><b>Coin tap:</b> Non-tinny, sharp noise</p>	<p><b>Color:</b> Dull gray</p> <p><b>Scratch test:</b> Dull silver</p> <p><b>Magnet:</b> <b>WILL</b> stick</p> <p><b>Coin tap:</b> Tinny noise</p> <p><b>Note:</b> Galvanized, will have threaded joints</p>	<p><b>Color:</b> Copper/bronze</p> <p><b>Scratch test:</b> Shiny copper</p> <p><b>Magnet:</b> Will <b>NOT</b> stick</p> <p><b>Coin tap:</b> Tinny noise</p>	<p><b>Color:</b> Dull gray</p> <p><b>Scratch test:</b> Bright silvery, easily scratched</p> <p><b>Magnet:</b> Will <b>NOT</b> stick</p> <p><b>Coin tap:</b> Dull noise</p> <p><b>Note:</b> Look for a lead bulb; Not always rigid, look for a bend</p>

**We Need Your Help!**

If you know what type your service line material is coming into your house from the street, please email [tawleadinquiries@amwater.com](mailto:tawleadinquiries@amwater.com) and also include picture for validation. For more information visit: <https://www.amwater.com/tnaw/Water-Information/Water-Quality/Lead-and-Drinking-Water/>

# 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.

Tennessee American Water has performed voluntary sampling to better understand occurrence of certain PFAS in drinking water sources. This sampling allows us to be better prepared as U.S. EPA is currently developing drinking water standards for six PFAS chemicals - PFOA (4 ppt), PFOS (4 ppt), and GenX, PFBS, PFNA, and PFHxS as a group using a Hazard Index of 1. For more information on the proposed PFAS drinking water standards, please visit <https://www.epa.gov/pfas>.

The science and regulation of PFAS and other contaminants is always evolving, and Tennessee American Water strives to be a leader in research and development. PFAS contamination is one of the most rapidly changing areas in the drinking water field. We have invested in our own independent research, as well as engaging with other experts in the field to understand PFAS occurrence in the environment. We are also actively assessing treatment technologies that can effectively remove PFAS from drinking water, because we believe that investment in research is critically important to addressing this issue.

## 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 Suck Creek System has naturally-occurring fluoride in the groundwater. The fluoride levels at Suck Creek treatment plant was adjusted to achieve an optimal fluoride level of 0.7 parts per million (ppm) and a control range of 0.6 ppm to 0.9 ppm to comply with the state's Water Fluoridation Standards. The naturally-occurring fluoride levels in the Suck Creek groundwater sources are close to optimal levels (approximately 0.1 ppm) and with Suck Creek's fluoride addition, the fluoride levels in the entire system are consistent year-round.

If you have any questions on fluoride, please call Tennessee American Water's Customer Service Center at (866-736-6420).



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. Wehrich, 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 Tennessee Department of Environment and Conservation (TDEC) 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.

## EVER WONDER WHY OR WHAT ABOUT DRINKING WATER?

Below are links to YouTube videos and the topics they address. The videos are short - around 1 minute long with subtitles. Click on the links to learn more!

Taste and Smell of Water Explained:	<a href="https://youtu.be/a4uaaxTOWoE">https://youtu.be/a4uaaxTOWoE</a>
Sulfur Smell Explained:	<a href="https://youtu.be/DXOEYWnB_ek">https://youtu.be/DXOEYWnB_ek</a>
Chlorine in Drinking Water:	<a href="https://youtu.be/QUaldDT7nEg">https://youtu.be/QUaldDT7nEg</a>
Cloudy Water Explained:	<a href="https://youtu.be/uYkCcW9RE4c">https://youtu.be/uYkCcW9RE4c</a>
Residue from Water Explained:	<a href="https://youtu.be/x7_pwehvgmA">https://youtu.be/x7_pwehvgmA</a>
Toilet Leaks:	<a href="https://youtu.be/OzlrOfYgzY">https://youtu.be/OzlrOfYgzY</a>
Lead in Drinking Water:	<a href="https://youtu.be/xNihqfuyhaA">https://youtu.be/xNihqfuyhaA</a>
Fluoride in Drinking Water:	<a href="https://youtu.be/g-03JCe9AjY">https://youtu.be/g-03JCe9AjY</a>
Discolored Water Explained:	<a href="https://youtu.be/W21NUWP9oa8">https://youtu.be/W21NUWP9oa8</a>
What are PFAS?:	<a href="https://youtu.be/vWoOtHOVb_c">https://youtu.be/vWoOtHOVb_c</a>

## CONTACT INFORMATION

This CCR was prepared by TNAW Water Quality Team. If you have questions about this report, you want additional information about your drinking water, or want to know how to participate in local activities that may help protect the quality of your drinking water, please contact: Lori Stenzel, Manager, Water Quality & Environmental Compliance, email: [lori.stenzel@amwater.com](mailto:lori.stenzel@amwater.com)

# 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 ( $\mu\text{mhos/cm}$ ):** 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

### Parts Per Million



1 drop  
in a 10 gallon fish tank

### Parts Per Billion



1 drop  
in a 10,000 gallon swimming pool

### Parts Per Trillion



1 drop  
in 35 junior size Olympic pools

# Water Quality Results

Tennessee American Water conducts extensive monitoring to determine if your water meets all water quality standards. The Tennessee American Water Suck Creek Groundwater Treatment Plant also purchases water from the Lone Oak Utility District which in turn purchases from Hixson Utility District. The detections 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.

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

REGULATED SUBSTANCES - Collected at the Treatment Plant and in the Distribution System													
	Suck Creek Utility	Lone Oak Utility District	Hixson Utility District				Suck Creek Utility		Lone Oak Utility District		Hixson Utility District		
Substance (with units)	Year Sampled			Compliance Achieved	MCLG	MCL	Compliance Result	Range Detected	Compliance Result	Range Detected	Compliance Result	Range Detected	Typical Source
Lead <sup>1</sup> (ppb)	2021	2022	2023	Yes	0	AL = 15	90th % = <1	all samples <1	90th % = 0.001	ND - 0.001	90th % = 3.68	ND - 6.20	Corrosion of household plumbing systems.
Copper <sup>1</sup> (ppm)	2021	2022	2023	Yes	1.3	AL = 1.3	90th % = 0.144	<0.025 - 0.166	90th % = 0.218	0.016 - 0.456	90th % = 0.588	0.114 - 0.723	Corrosion of household plumbing systems.
Turbidity <sup>2</sup> (NTU)	2023	NA	2023	Yes	0	TT: single result >1 NTU	0.084	0.032 - 0.084	NA	NA	0.29	0.1 - 0.9	Soil runoff.
				Yes	NA	TT: At least 95 % of samples <0.3	100%	NA	NA	NA	NA	NA	
Fluoride <sup>3</sup> (ppm)	2023	NA	2023	Yes	4	4	0.76	0.69 - 0.81	NA	NA	0.94	0.41 - 0.94	Erosion of natural deposits
Nitrate <sup>4</sup> (ppm)	2023	NA	2023	Yes	10	10	0.07	0.05 - 0.07	NA	NA	0.822	0.607 - 0.822	Runoff from fertilizer use; industrial or domestic wastewater discharges; erosion of natural deposits.

1 During the most recent round of lead and copper testing for Suck Creek, 0 out of 12 households sampled contained concentrations exceeding the action level.

During the most recent round of lead and copper testing for Lone Oak, 0 out of 5 households sampled contained concentrations exceeding the action level.

2 Turbidity is a measure of the cloudiness of the water. Turbidity is monitored because it is a good indicator of the effectiveness of the filtration system. During 2023 at Suck Creek Utility, 100% of all samples taken to measure turbidity met water quality standard of less than 0.3 NTU. Turbidity in excess of 5 NTUs is just noticeable to the average person.

3 Fluoride compliance result is the average of quarterly distribution samples.

4 Nitrate compliance result is the highest result achieved in 2023 at the entry point.

REGULATED SUBSTANCES - Collected at the Treatment Plant and in the Distribution System													
	Suck Creek	Lone Oak Utility District	Hixson Utility District				Suck Creek		Lone Oak Utility District		Hixson Utility District		
Substance (with units)	Year Sampled			Compliance Achieved	MCLG	MCL	Compliance Result	Range Detected	Compliance Result	Range Detected	Compliance Result	Range Detected	Typical Source
Chlorine <sup>5</sup> (ppm) (Distribution System)	2023	2023	2023	Yes	MRDLG = 4	MRDL = 4	1.71	0.87 - 1.97	0.9 average	0.5 - 1.1	1.6	0.7 - 1.6	Water additive used to control microbes.
Chlorine <sup>6</sup> (ppm) (Entry Point)	2023	NA	NA				1.63	1.63 - 2.19	NA	NA	NA	NA	
Total Trihalomethanes (TTHMs) <sup>7</sup> (ppb)	2023	2023	2023	Yes	NA	80	34.0	24.5 - 34.0	11.4	NA	5.74	5.00 - 5.74	By-product of drinking water disinfection.
Haloacetic Acids (HAAs) <sup>7</sup> (ppb)	2023	2023	2023	Yes	NA	60	13.4	10.5 - 13.4	3.77	NA	1.92	1.64 - 1.92	By-product of drinking water disinfection.

5 Data represents the highest quarterly running annual average of chlorine residuals measured in distribution system of compliance samples.

6 Data represents the lowest residual entering the distribution system.

7 The compliance result reflects the highest amount detected. Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous systems and may have an increased risk of getting cancer.

OTHER REGULATED SUBSTANCES - Collected at the Hixson Utility District Treatment Plant							
Substance (with units)	Year Sampled	Compliance Achieved	MCLG	MCL	Highest Compliance Result	Range Detected	Typical Source
Sodium (ppm)	2021	Yes	NA	NA	1.34	1.26 - 1.34	Erosion of natural deposits; used in water treatment.
Barium (ppm)	2021	Yes	NA	NA	0.025	0.0132 - 0.025	Erosion of natural deposits; used in water treatment.
Alpha Emitters (pCi/L)	2023	Yes	0	15	0.608	0.143-0.608	Erosion of natural deposits.
Combined Radium (pCi/L)	2023	Yes	0	5	0.327	0.037-0.327	Erosion of natural deposits.

### OTHER SUBSTANCES OF INTEREST - Collected at the Suck Creek Treatment Plant

Substance (with units)	Year Sampled	Compliance Achieved	MCLG	Limit	Average Amount Detected	Range Detected	Comments
Iron <sup>1</sup> (ppm)	2023	NA	NA	NA	<0.10	<0.10	Secondary standard limit = 0.3 mg/L
Manganese <sup>1</sup> (ppm)	2023	NA	NA	NA	<0.010	<0.010	Secondary standard limit = 0.05 mg/L
Sodium <sup>2</sup> (ppm)	2023	NA	NA	NA	24.65	24.6- 24.7	Erosion of natural deposits; used in water treatment
Chloride <sup>1</sup> (ppm)	2023	NA	NA	NA	7.7	7.5 - 7.9	Secondary standard limit =250 mg/L
Hardness (ppm)	2023	NA	NA	NA	30.5	26 - 40	Soft 0 - 60 mg/L Moderately Hard 61 - 120 Hard 121 - 180 Very Hard greater than 180
Hardness (grains/gal)	2023	NA	NA	NA	1.8	1.5 - 2.3	Naturally occurring
pH <sup>1</sup>	2023	NA	NA	NA	7.29	7.10 - 7.61	Secondary standard limit = 6.5 - 8.5
Temp <sup>3</sup> (Celsius)	2023	NA	NA	NA	17	15 - 18	
Total Dissolved Solids <sup>1</sup> (ppm)	2023	NA	NA	NA	89	86 - 92	Secondary standard limit = 500 mg/L
Zinc <sup>1</sup> (ppm)	2023	NA	NA	NA	<0.05	<0.05	Secondary standard limit = 5.0 mg/L

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

2-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.

3-Temp is measured on the source water.

### PFAS

Tennessee American Water -Suck Creek Utility has performed voluntary sampling to better understand the occurrence of certain PFAS in drinking water sources. This sampling allows us to understand how our water compares against the non-enforceable Health Advisory Level set by U.S. EPA. Sampling also allows Tennessee American Water to be better prepared as U.S. EPA and Tennessee Department of Environment and Conservation is currently developing drinking water standards for

#### UNREGULATED PERFLUORINATED COMPOUNDS

Parameter	Units	Year	Average Result	Range Detected	Typical Source
Perfluorooctanoic Acid (PFOA)	ppt	2021	ND	ND	Manufactured chemical(s); used in household goods for stain, grease, heat and water resistance
Perfluorooctanesulfonic Acid (PFOS)	ppt	2021	ND	ND	
Hexafluoropropylene oxide-dimer acid (GenX)	ppt	2021	ND	ND	
Perfluorobutane sulfonic acid (PFBS)	ppt	2021	ND	ND	

PFAS are currently not regulated in Tennessee. In 2023, U.S. EPA proposed drinking water standards for six PFAS chemicals – PFOA 4 ppt, PFOS 4 ppt, and GenX, PFBS, PFNA, and PFHxS as a group using a Hazard Index of 1. For more information on the proposed PFAS drinking water standards, please visit <https://www.epa.gov/pfas>.

PFAS chemicals are unique, therefore, two PFAS chemicals at the same level typically do not present the same risk. Therefore, you should not compare the results for one PFAS chemical against the results of another.



Every Drop  
Counts

## 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.



**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.



## 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® 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.

**Tennessee American Water**, a subsidiary of American Water, is the largest investor-owned water utility in the state, providing high-quality and reliable water services to approximately 420,000 people in Tennessee and north Georgia. For more information, visit [tennesseeamwater.com](http://tennesseeamwater.com) and follow us on X, Facebook, Instagram and YouTube.



## TENNESSEE AMERICAN WATER FACTS AT A GLANCE

- **COMMUNITIES SERVED**  
14 communities in three TN counties (Hamilton, Marion & Sequatchie), two GA counties (Walker & Catoosa) and including Sale for Resale Customers (Signal Mountain, TN; Ft. Oglethorpe, GA; Catoosa Utility District Authority, GA; Walker Utility District Authority.
- **PEOPLE SERVED**  
Approximately 420,000 residents in Tennessee and northern Georgia (88% residential, 11% commercial/Industrial, 1% public entities such as schools, hospitals, government facilities)
- **EMPLOYEES**  
110
- **TREATMENT FACILITIES**  
Two surface water treatment plants and one groundwater source
- **MILES OF PIPELINE & OTHER DISTRIBUTION FACILITIES**
  - Miles of pipe: 1,443 miles
  - Hydrants: 5,723
  - Valves: 19,609
- **Storage and transmission**
  - Boosters: 33
  - Tanks: 38

# How to Contact Us

If you have any questions about this report, your drinking water, or service, please contact Tennessee American Water's Customer Service Center Monday to Friday, 7 a.m. to 7 p.m. at 1-866-736-6420.



## WATER INFORMATION SOURCES

**Tennessee American Water**  
[www.tennesseamwater.com](http://www.tennesseamwater.com)

**Tennessee Department of Environment and Conservation (TDEC):**  
[www.tn.gov/environment](http://www.tn.gov/environment)

**United States Environmental Protection Agency (USEPA):**  
[www.epa.gov/safewater](http://www.epa.gov/safewater)

**Safe Drinking Water Hotline:** (800) 426-4791

**Centers for Disease Control and Prevention:** [www.cdc.gov](http://www.cdc.gov)

**American Water Works Association:** [www.awwa.org](http://www.awwa.org)

**Water Quality Association:** [www.wqa.org](http://www.wqa.org)

**National Library of Medicine/National Institute of Health:**  
[www.nlm.nih.gov/medlineplus/drinkingwater.html](http://www.nlm.nih.gov/medlineplus/drinkingwater.html)

**This report contains important information about your drinking water. Translate it, or speak with someone who understands it at 1-866-736-6420.**

This report contains important information about your drinking water. Translate it, or speak with someone who understands it at 1-866-736-6420.

Este informe contiene información muy importante sobre su agua potable. Tradúzcalo o hable con alguien que lo entienda bien al 1-866-736-6420.

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 1-866-736-6420.

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 **1-866-736-6420** 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 **1-866-736-6420** र हमें काल करें।

**Это очень важная информация о качестве Вашей воды. Если Вам требуется перевод этой информации, позвоните нам по телефону 1-866-736-6420.**

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 1-866-736-6420.

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 1-866-736-6420.