2023 Consumer Confidence Report (CCR) Certification Form

Population Served: 1783

Report Year: 2023

Water System Name: Town of Broadway

Water System No.: NC035015

The Community Water System (CWS) named above hereby confirms that all provisions under 40 CFR parts 141 and 142 requiring the development of, distribution of, and notification of a consumer confidence report have been executed. Further, the CWS certifies the information contained in the report is correct and consistent with the compliance monitoring data previously submitted to the primacy agency by their NC certified laboratory. In addition, if this report is being used to meet Tier 3 Public Notification requirements, as denoted by the checked box below, the CWS certifies that public notification has been provided to its consumers in accordance with the requirements of 40 CFR 141.204(d). Certified by: Name: John M. Godfrey Title: Town Manager Signature: (Delivery Achieved Date: May 2024 Date Reported to State: May 2024 The CCR includes the mandated Tier 3 Public Notice for a monitoring/reporting violation (check box, if yes). Check **all** methods used for distribution (see instructions on back for delivery requirements and methods): ☐ Paper copy to all X US Mail ☐ Hand Delivery ☐ Notification of availability of paper copy (Provide a copy of the notice.) Notification Method (i.e., US Mail, door hanger) X Notification of CCR URL (must be direct URL): http://www.broadwaync.com/CCR.pdf Notification Method on bill (i.e., on bill, bill stuffer, separate mailing, email) ☐ Direct email delivery of CCR ☐ Attached ☐ Embedded Notification Method on bill (i.e., on bill, bill stuffer, separate mailing) □ Newspaper (attach copy) Name of Paper? ______Date Published: _____ Notification Method _____ (i.e., on bill, bill stuffer, separate mailing, email) ☐ "Good faith" efforts (in addition to one of the above required methods) were used to reach non-bill paying consumers such as industry employees, apartment tenants, etc. These efforts included the following methods: X posting the CCR on the Internet at URL: http://www.broadwaync.com/CCR.pdf ☐ mailing the CCR to postal patrons within the service area □ advertising the availability of the CCR in news media (attach copy of announcement) □ publication of the CCR in local newspaper (attach copy of newspaper) X posting the CCR in public places such as: (attach list if needed) Broadway Town Hall □ delivering multiple copies to single bill addresses serving several persons such as: apartments, businesses, and large private employers delivery to community organizations such as: (attach list if needed) Note: Use of social media (e.g., Twitter or Facebook) or automated phone calls DO NOT meet existing CCR distribution

methods under the Rule.

2023 Annual Drinking Water Quality Report Town of Broadway

Water System Number: 03-53-015

Este informe contiene información muy importante sobre su agua potable. Tradúzcalo o hable con alguien que lo entienda bien.

We are pleased to present to you this year's Annual Drinking Water Quality Report. This report is a snapshot of last year's water quality. Included are details about your source(s) of water, what it contains, and how it compares to standards set by regulatory agencies. Our constant goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water and to providing you with this information because informed customers are our best allies. If you have any questions about this report or concerning your water, please contact Town of Broadway at 919-258-9922. We want our valued customers to be informed about their water utility. If you want to learn more, please attend a Town Commissioners Meeting. The Board meets on the fourth Monday of each month at 6:00 pm in the Council Chambers at 103 N Main What EPA Wants You to Know

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).

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

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. The Town of Broadway 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.

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity. Contaminants that may be present in source water include microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife; inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming; pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses; organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems; and radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water, which must provide the same protection for public health.

When You Turn on Your Tap, Consider the Source

The water that is used by this system is from the Cape Fear River and purchased from the City of Sanford.

Source Water Assessment Program (SWAP) Results

The North Carolina Department of Environmental Quality (DEQ), Public Water Supply (PWS) Section, Source Water Assessment Program (SWAP) conducted assessments for all drinking water sources across North Carolina. The purpose of the assessments was to determine the susceptibility of each drinking water source (well or surface water intake) to Potential Contaminant Sources (PCSs). The results of the assessment are available in SWAP Assessment Reports that include maps, background information and a relative susceptibility rating of Higher, Moderate or Lower.

The relative susceptibility rating of each source for The Town of Broadway was determined by combining the contaminant rating (number and location of PCSs within the assessment area) and the inherent vulnerability rating (i.e., characteristics or existing conditions of the well or watershed and its delineated assessment area). The assessment findings are summarized in the table below:

Susceptibility of Sources to Potential Contaminant Sources (PCSs)

| Source Name | Susceptibility Rating | SWAP Report Date |
|-----------------|-----------------------|------------------|
| Cape Fear River | Higher | September 2020 |

The complete SWAP Assessment report for City of Sanford may be viewed on the Web at: https://www.ncwater.org/?page=600
Note that because SWAP results and reports are periodically updated by the PWS Section, the results available on this web site may differ from the results that were available at the time this CCR was prepared. If you are unable to access your SWAP report on the web, you may mail a written request for a printed copy to: Source Water Assessment Program — Report Request, 1634 Mail Service Center, Raleigh, NC 27699-1634, or email requests to swap@ncdenr.gov. Please indicate your system name, number, and provide your name, mailing address and phone number. If you have any questions about the SWAP report, please contact the Source Water Assessment staff by phone at 919-707-9098.

It is important to understand that a susceptibility rating of "higher" does not imply poor water quality, only the system's potential to become contaminated by PCSs in the assessment area.

Help Protect Your Source Water

Protection of drinking water is everyone's responsibility. We have implemented the following source water protection actions: You can help protect your community's drinking water source(s) in several ways: (examples: dispose of chemicals properly; take used motor oil to a recycling center, volunteer in your community to participate in group efforts to protect your source, etc.).

Violations that Your Water System Received for the Report Year

During 2023, or during any compliance period that ended in 2023, we received a LCN violation that covered the time period of 1/1 - 3/06/23. We have issued the notice and modified our schedule to assure this does not happen again.

What should I do? There is nothing you need to do at this time.

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.

For more information about this violation, please contact the responsible person listed in the first paragraph of this report.

Important Drinking Water Definitions:

- o Not-Applicable (N/A) Information not applicable/not required for that particular water system or for that particular rule.
- o Non-Detects (ND) Laboratory analysis indicates that the contaminant is not present at the level of detection set for the particular methodology used.
- o Parts per million (ppm) or Milligrams per liter (mg/L) One part per million corresponds to one minute in two years or a single penny in \$10,000.
- Parts per billion (ppb) or Micrograms per liter (ug/L) One part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.
- Maximum Residual Disinfection Level (MRDL) The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.
- Maximum Residual Disinfection 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.

- Locational Running Annual Average (LRAA) The average of sample analytical results for samples taken at a particular monitoring location during the previous four calendar quarters under the Stage 2 Disinfectants and Disinfection Byproducts Rule.
- Running Annual Average (RAA) The average of sample analytical results for samples taken during the previous four calendar quarters.
- 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.
- 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.

Water Quality Data Tables of Detected Contaminants

We routinely monitor for over 150 contaminants in your drinking water according to Federal and State laws. The tables below list all the drinking water contaminants that we <u>detected</u> in the last round of sampling for each particular contaminant group. The presence of contaminants does <u>not</u> necessarily indicate that water poses a health risk. **Unless otherwise noted, the data presented in this table is from testing done January 1 through December 31, 2023.** The EPA and the State allow us to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of the data, though representative of the water quality, is more than one year old.

REVISED TOTAL COLIFORM RULE:

Microbiological Contaminants in the Distribution System

| | MCL | Number of | | | |
|---|------------------|-----------------------------|------|--|--------------------------------------|
| Contaminant (units) | Violation Y/N | Positive/Present Samples | MCLG | MCL | Likely Source of Contamination |
| Total Coliform Bacteria (presence or absence) | N/A | N/A | N/A | TT* | Naturally present in the environment |
| E. coli (presence or absence) | N | 0 | 0 | Routine and repeat samples are total coliform-positive and either is <i>E. coli</i> -positive or system fails to take repeat samples following <i>E. coli</i> -positive routine sample or system fails to analyze total coliform-positive repeat sample for <i>E. coli</i> Note: If either an original routine sample and/or its repeat samples(s) are <i>E. coli</i> positive, a Tier 1 violation exists. | Human and animal fecal waste |

Lead and Copper Contaminants

| Contaminant (units) | Sample Date | Your Water (90 th Percentile) | Number of sites found above the AL | MCLG | AL | Likely Source of Contamination |
|---|-------------|---|--|------|--------|--|
| Copper (ppm) (90 th percentile) | 8/17/22 | 0.095 ppm | 0 | 1.3 | AL=1.3 | Corrosion of household plumbing systems; erosion of natural deposits |
| Lead (ppb) (90th percentile) | 8/17/22 | ND | 0 | 0 | AL=15 | Corrosion of household plumbing systems; erosion of natural deposits |

Disinfectant Residuals Summary

| | MRDL Violation Y/N | Your Water (RAA) | Range Low High | MRDLG | MRDL | Likely Source of Contamination |
|-------------------|--------------------------|------------------------|-------------------|------------------|------|---|
| Chlorine (ppm) | N | 0.19 ppm | 0-0.89 ppm | 0-0.89 ppm 4 4.0 | | Water additive used to control microbes |
| Chloramines (ppm) | N | 1.94 ppm | 0.1-3.4 ppm | 4 | 4.0 | Water additive used to control microbes |

| Contaminant (units) | Year Sampled | MCL Violation Y/N | Your Water (highest LRAA) | Rang Low | e High | MCLG | MCL | Likely Source of Contamination |
|---------------------|--------------|----------------------|------------------------------|-------------|-----------|------|-----|--|
| TTHM (ppb) | 2023 | N | | | | N/A | 80 | Byproduct of drinking water disinfection |
| Location (B01) | | | 75.0 ppb | 59-75 | ppb | | | |
| Location (BO2) | | | 78.0 ppb | 60-78 | ppb | | | |
| HAA5 (ppb) | 2023 | N | | | | N/A | 60 | Byproduct of drinking water disinfection |
| Location (B01) | | | 33 ppb | 32-33.0 | ppb | | | Table P.O. S. North Co. 1977 |
| Location (BO2) | | | 32 ppb | 30-32.0 | ppb | | | |

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.

Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer.

CITY OF SANFORD 2023 ANNUAL WATER QUALITY REPORT

Water System Number: NC 03-53-010

When You Turn on Your Tap, Consider the Source

The City of Sanford's customers are fortunate because they enjoy an abundant water supply from a single surface water source, the Cape Fear River. The Deep, Haw, and Rocky Rivers form the headwaters of the Cape Fear River Basin.

Source Water Assessment Program (SWAP) Results

The North Carolina Department of Environment and Natural Resources (DENR), Public Water Supply (PWS), Source Water Assessment Program (SWAP) conducted assessments for all drinking water sources across North Carolina. The purpose of assessments was to determine the susceptibility of each drinking water source (well or surface water intake) to potential contaminant sources (PCSs). The relative susceptibility rating of the water source for the City of Sanford was determined by combining the contaminant rating (number and location of PCSs with the assessment area) and the inherent vulnerability rating (i.e., characteristics or existing conditions of the watershed and its delineated assessment area). The assessment findings are summarized in the table below:

| SOURCE NAME | INHERENT VULNERABILITY RATING | CONTAMINANT RATING | SUSCEPTIBILITY RATING | SWAP REPORT DATE |
|-----------------|-------------------------------------|-----------------------|--------------------------|---------------------|
| Cape Fear River | Higher | Moderate | Higher | September 2020 |

The complete SWAP report for the City of Sanford may be viewed on the Web at http://www.ncwater.org/?page=600. Note that because SWAP results and reports are periodically updated by the PWS Section, the results available on this web site may differ from the results that were available at the time this Annual Water Quality Report was prepared. If you are unable to access your SWAP report on the web, you may mail a written request for a printed copy to: Source Water Assessment Program-Report Request, 1634 Mail Service Center, Raleigh, NC 27699-1634, or email requests to swap@ncdenr.gov. Please indicate your system name (City of Sanford), system number (03-53-010), and provide your name, mailing address and phone number. If you have any questions about the SWAP report, please contact the Source Water Assessment staff by phone at 919-707-9098.

It is important to understand that a susceptibility rating of "higher" does not imply poor water quality, only the systems' potential to become contaminated by PCSs in the assessment area.

Water Quality Data of Detected Contaminants

We routinely monitor for multiple water quality contaminants in your drinking water according to Federal and State laws. The tables below list all the contaminants that we detected in the last round of sampling for each particular contaminant group. The presence of contaminants does not necessarily indicate the water poses a health risk. Unless otherwise noted, the data presented in this table is from testing done January 1 through December 31, 2023. The EPA and the State allow us to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year.

Filtered Water Quality Data (Regulated)

| TURBIDITY | | | | |
|--|------------------------|---------------|--|-----------------------------------|
| CONTAMINANT (UNIT OF MEASURE) | TT VIOLATION Y/N | YOUR WATER | TREATMENT TECHNIQUE (□T) VIOLATION IF: | LIKELY SOURCE OF CONTAMINATION |
| Turbidity (NTU)-Highest single turbidity measurement | No | 0.17 | Turbidity > 1 NTU | |
| Turbidity (NTU)-Lowest monthly percentage (%) of samples meeting turbidity limits | No | 100% | Less than 95% of monthly turbidity measurements are <0.3 NTU | Soil Runoff |

 Turbidity is a measure of the cloudiness of water. We monitor it because it is a good indicator of the effectiveness of our filtration system. The turbidity rule requires that 95% or more of the monthly samples must be less than or equal to 0.3 NTU

INORGANIC CONTAMINANTS

| CONTAMINANT (UNIT OF MEASURE) | MCL VIOLATION | YOUR WATER | RANGE LOW-HIGH | MCLG | MCL | LIKELY SOURCE OF CONTAMINATION |
|----------------------------------|------------------|---------------|-------------------|------|-----|---|
| Fluoride (ppm) | No | 0.71 | 0.51-0.86 | 4 | 4 | Erosion of natural deposits. Water additive which promotes strong teeth; discharge from fertilizer and aluminum factories |

COPPER AND LEAD CONTAMINANTS (Tap water samples were collected for copper and lead analysis from 30 sample sites throughout the community during the 3rd quarter of 2022)

| CONTAMINANT (UNIT OF | YOUR | SITES ABOVE AL/ | MCLG | AL | LIKELY SOURCE OF |
|--|--------|-----------------|------|--------|--|
| MEASURE) | WATER | TOTAL SITES | | | CONTAMINATION |
| Copper (ppm) (90 th percentile) | 0.118 | 0/30 | 1.3 | AL=1.3 | Corrosion of household plumbing systems; erosion of natural deposits |
| Lead (ppb) (90 th percentile) | <0.003 | 0/30 | 0 | AL=15 | Corrosion of household plumbing systems; erosion of natural deposits |

| CONTAMINANT (UNIT OF MEASURE) | TT VIOLATION Y/N | YOUR WATER | RANGE MONTHLY REMOVAL RATIO LOW-HIGH | MCLG | π | i | OURCE OF MINATION | COMPLIANC METHOD | | |
|----------------------------------|------------------------|---------------|--|-----------|-----------|------------------|----------------------|---------------------|------------------------|--|
| Total Organic Carbon | NO | 1.13 | 0.90-1.31 | N/A | П | Natural | ly present | STEP | | |
| (Removal Ratio) | | | | | | in the en | vironment | 1 | | |
| (TOC)-TREATED | | | | | |]. | | ···· | | |
| COURCE | | | EMOVAL RE | TOIKFIN | | | | | | |
| SOURCE \ | WATER TOC (mg | / L) | | | | | R ALKALINIT | | | |
| | | | | 0.00 | mg/L | | n percentage | | | |
| | | | | 0-60 | 1 | >60-12 | | >120 | | |
| | >2.0-4.0 | | | 35.0 | | 25.0 | | 15.0 | | |
| | >4.0-8.0 >8.0 | | | 45.0 | | 35.0 | | 25.0 | | |
| DICIOLET CELODI DECENTIO | | | | 50.0 | | 40.0 | | 30.0 | | |
| DISINFECTION RESIDUA | | Υ | | | | | | | | |
| CONTAMINANT (UNIT OF | MCL/MRDL | YOUR | RANGE | MRDLG | | MCL | | SOURCE OF | | |
| MEASURE) | VIOLATION | WATER | LOW- | | | | CONTAMINATION | | | |
| | Y/N | (Highest | HIGH | | | | | | | |
| | | RAA) | | | | | | | | |
| Chloramines (ppm) | N | 3.42 | 2.61-3.77 | 51-3.77 4 | | 4 4 | | 4 | Water additive used to | |
| | | | | | | control microbes | | | | |
| Chlorine (ppm) {March | N | 2.61 | 2.4-2.79 | 4 | | 1 | | itive used to | | |
| only} | | | | | | | control mi | | | |
| STAGE 2 DISINFECTION (LRAA) | BYPRODUCT | COMPLIA | ا NCE - Based | apon Loc | ation | al Runnin | g Annual A | verage | | |
| CONTAMINANT (UNIT OF | MCL/MRDL | YOUR | RANGE | MCL | 3 | MCL | LIKELY | SOURCE OF | | |
| MEASURE) | VIOLATION | WATER | LOW- | | | | 1 | MINATION | | |
| , | Y/N | (Highest | HIGH | | | | | | | |
| | | LRAA) | | | | | | | | |
| TTHM (ppb) | NO | | | N/A | | 80 | | | | |
| {Total Trihalomethanes} | | (Location | | | | | | | | |
| Location B01 | NO | B04-N. | 37.2-82.3 | # (| en redige | alagaerie | Byprodu | et of drinking | | |
| Location B02 | NO | Horner | 35.6-74.5 | | | | water | disinfection | | |
| Location B03 | NO | Blvd.) | 38.3-66.8 | | | | } | | | |
| Location B04 | NO | | 38.8-84.7 | | | | | | | |
| HAA5 (ppb) | NO | | alia ikazana | N/A | | 60 | | | | |
| {Total Haloacetic Acids} | | (Location | and half | i | | | | | | |
| Location B01 | NO | B01- | 24.8-45.8 | | | garatta. | | ct of drinking | | |
| Location B02 | NO | Branch | 24.8-38.8 | | | | water | disinfection | | |
| Location B03 | NO | Drive) | 6.5-32.7 | | | | : | | | |
| Location B04 | NO | | 20.9-42.8 | | | | | | | |

Raw Water Quality Data (Regulated)

CRYPTOSPORIDIUM

 The City of Sanford monitored for cryptosporidium in both the Cape Fear River and the facilities reservoir during 2018. Monitoring detected a level of 0.091 oocysts per liter in the Cape Fear River during February. Cryptosporidium is a microbial pathogen found in surface water throughout the U.S. Although filtration removes Cryptosporidium, the most commonly-used filtration methods cannot guarantee 100 percent removal. Our monitoring indicates the presence of these organisms in our source water. Current test methods do not allow us to determine if the organisms are dead or if they are capable of causing disease. Ingestion of cryptosporidium may cause cryptosporidiosis, an abdominal infection. Symptoms of infection include nausea, diarrhea, and abdominal cramps. Most healthy individuals can overcome the disease within a few weeks. However, immune-compromised people, infants and small children, and the elderly are at greater risk of developing life-threatening illness. We encourage immune-compromised individuals to consult their doctor regarding appropriate precautions to take to avoid infection. Cryptosporidium must be ingested to cause disease, and it may be spread through means other than drinking water.

Filtered Water Quality Data (Non-Regulated Secondary Substances)

| CONTAMINANT (UNIT OF MEASURE) | YOUR WATER | SMCL | LIKELY SOURCE OF CONTAMINATION |
|-------------------------------|---------------|-----------------|--|
| Alkalinity | 37.0 | N/A | Water additive, erosion of natural deposits |
| Hardness | 36.4 | N/A | Erosion of natural deposits |
| рН | 7.2 | 6.0-9.0 | Measurement of acid or base neutralizing capacities of water |
| Sodium (ppm) | 25.2 | N/A | Water additive, erosion of natural deposits |
| Sulfate (ppm) | 36.5 | 250 mg/L | Erosion of natural deposits |

Emerging Contaminants

Emerging contaminants, or contaminants of emerging concern, are unregulated synthetic or naturally occurring chemicals that are not commonly monitored by water utilities. The health significance of these trace contaminants is under review and the subject of further study and research.

Beginning March 2020, we started monitoring for per and polyfluoroalkyl substances, and 1,4 dioxane monthly. The data presented in the tables is testing done from May 1 through December 31, 2023.

Per and polyfluoroalkyl substances (PFAS) are a class of man-made chemicals used for consumer products such as waterproof and stainproof products, nonstick cookware, food packaging and fire suppression foams.

1,4 dioxane is a clear, flammable liquid used as a solvent or stabilizer in the manufacturing of chemicals, cosmetics, detergents, and shampoos.

2023 ANNUAL WATER QUALITY REPORT

(Non-Regulated)

| Per and Polyfluoroalkyl Substances (PFAS) | | | | | | | | | |
|---|----------------------------------|----------------|---------------|---------------|--|--|--|--|--|
| | CONTAMINANT (UNIT OF MEASURE) | SAMPLING POINT | YOUR WATER | RANGE LOW- | | | | | |
| | | | (Average) | HIGH | | | | | |

| | PFPeA, | EP | 4.06 | 0-12 |
|------------|--|----|------|---------|
| | Perfluoropentanoic Acid (ppt) | RW | 3.5 | 0-13 |
| | PFBA, | EP | 4.09 | 0-10 |
| | Perfluorobutanoic Acid (ppt) | RW | 2.61 | 0-10 |
| | PFHxA, | EP | 8.31 | 0-11 |
| | Perfluorohexanoic Acid (ppt) | RW | 6.16 | 0-12 |
| | PFHpa, | EP | 3.24 | 0-7.6 |
| Acids | Perfluoroheptanoic Acid (ppt) | RW | 4.3 | 0-7.6 |
| | PFOA, | EP | 5.74 | 1.7-7.6 |
| | Perfluorooctanoic Acid (ppt) | RW | 8.3 | 0.64-45 |
| | HFPO-DA, Hexafluoropropylene Oxide-Dimer (ppt) | EP | 0.11 | 0-1.2 |
| | PFNA, | EP | 0.38 | 0-1.7 |
| | Perfluorononanoic Acid (ppt) | RW | 0.98 | 0-7.4 |
| | PFDA, Perfluorodecanoic Acid (ppt) | RW | 0.54 | 0-4.8 |
| | PFUnA (PFUnDA), Perfluooundecanoic Acid (ppt) | EP | 1.94 | 0-9 |
| Sulfonates | PFBS, Perfluorobutane Sulfonic Acid (ppt) | RW | 2 | 0-22 |
| | PFHxS, | EP | 2.12 | 0-4.8 |
| | Perfluorohexane Sulfonic Acid (ppt) | RW | 3.29 | 0-19 |
| | PFOS, | EP | 7.5 | 0-15 |
| | Perfluorooctane Sulfonic Acid (ppt) | RW | 8.26 | 0-15 |
| | 6:2, Fluorotelomer | EP | 0.52 | 0-3.4 |
| | Sulfonic Acid (ppt) | RW | 4.24 | 0-21 |

2023 ANNUAL WATER QUALITY REPORT Emerging Contaminants (continued) (Non-regulated)

| CONTAMINANT | SAMPLING POINT | YOUR WATER | RANGE |
|-------------------|----------------|------------|----------|
| (UNIT OF MEASURE) | | (AVERAGE) | LOW-HIGH |
| 1,4 Dioxane (ppb) | EP | 0.58 | 0-1.3 |

Unregulated Contaminant Monitoring Rule (UCMR5)

(Non-regulated)

The Safe Drinking Water Act requires that once every five years the EPA issue a list of thirty chemical contaminants to be monitored by public water systems. The monitoring provides the agency and other interested parties with scientifically valid data on the national occurrence of these contaminants in drinking water. The data assists the EPA in determining whether future regulations are warranted.

| | CONTAMINANT | SAMPLING POINT | YOUR | RANGE |
|------------|---|----------------|-----------|---------|
| | (UNIT OF | | WATER | LOW- |
| | MEASURE) | | (AVERAGE) | HIGH |
| | PFPeA, | EP | 12.34 | 5.8-23 |
| Acids | Perfluoropentanoic Acid (ppt) | RW | 7.78 | 0-10 |
| | PFBA, Perfluorbutanoic | EP | 9.84 | 5.1-16 |
| | Acid (ppt) | RW | 5.74 | 0-10 |
| | PFHxA, Perfluorohexanoic | EP | 11.86 | 6.6-20 |
| | Acid (ppt) | RW | 7.34 | 0-12 |
| | PFHpA, | EP | 2.85 | 0-7 |
| | Perfluoroheptanoic Acid ppt) | RW | 2.22 | 0-3.3 |
| | PFOA, | EP | 7.73 | 6.5-9.4 |
| | Perfluorooctanoic Acid (ppt) | RW | 5.76 | 0-7.9 |
| | PFDA, | EP | 0.07 | 00.57 |
| | Perfluorodecanoic Acid (ppt) | RW | 0.59 | 00.59 |
| | PFNA, Perfluorononanoic Acid (ppt) | RW | 0.18 | 0-0.91 |
| | PFBS, | EP | 8.15 | 4.6-15 |
| | Perfluorobutane Sulfonic Acid (ppt) | RW | 4.94 | 0-7.5 |
| | PFHxS, | EP | 3.46 | 0-5.3 |
| | Perfluorohexane Sulfonic Acid (ppt) | RW | 1.92 | 0-4.9 |
| Sulfonates | PFHpS, Perfluoroheptane Sulfonic Acid (ppt) | RW | 7.4 | 0-37 |

| | PFOS, | EP | 13.13 | 10-16 |
|---|-------------------------------------|----|-------|-------|
| 1 | Perfluorooctane Sulfonic Acid (ppt) | RW | 10.2 | 0-15 |
| | 6:2, Fluorotelomer | EP | 0.71 | 0-3.4 |
| | Sulfonic Acid (ppt) | RW | 9.32 | 0-21 |

Health Advisories

A health advisory provides information on contaminants than can cause human health effects and are known or anticipated to occur in drinking water. EPA's health advisories are non-enforceable and non-regulatory, but identify levels to protect all people, including sensitive populations and life stages, from adverse health effects resulting from a lifetime of exposure to these contaminants in drinking water. The advisory also takes into account other potential sources of exposure to these contaminants beyond drinking water (for example, food, air, consumer products, etc.) which provides an additional layer of protection.

In 2022, the EPA published both <u>interim</u> and <u>final health advisories</u> specifically targeting four per and polyfluoroalkyl substances (PFAS).

PFOA and PFOS

The EPA has published <u>interim</u> lifetime health advisories for PFOA and PFOS. These new interim health advisories are below the levels at which analytical methods can measure PFOA and PFOS. The minimum detection levels for measuring these contaminants are listed in the table below. The EPA Science Advisory Board is reviewing the EPA's analysis; therefore, these interim health advisory levels are subject to change. However, the EPA does not anticipate changes that will result in health advisory levels that are greater than the minimum detection levels.

Gen X Chemicals and PFBS

The EPA has published <u>final</u> lifetime health advisories for GenX chemicals and PFBS based on final toxicity assessments.

Summary of the Four Health Advisories

| Contaminant (Unit of Measure) | Lifetime Health Advisory Level/ Value | Minimum Detection Level |
|----------------------------------|--|-------------------------|
| PFOA (ppt) | 0.004 (Interim) | 4 |
| PFOS (ppt) | 0.02 (Interim) | 4 |
| GenX Chemicals (ppt) | 10 (Final) | 5 |
| PFBS (ppt) | 2,000 (Final) | 3 |

If you are concerned about PFAS in your drinking water:

- Consider and resources and recommendations from your state: https://www.epa.gov/pfas/us-state-resources-about-pfas
- Follow EPA's progress in developing a PFAS National Drinking Water Regulation: https://www.epa.gov/sdwa/and-polyfluoroalkyl-substances-pfas

 Learn more about PFAS and review the agency's PFAS Strategic Roadmap: https://www.epa.gov/pfas/pfas-strategic-roadmap-epas-commitments-action-2021-2024

2023 ANNUAL WATER QUALITY REPORT Definitions

- Action Level (AL) The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
- Distribution System (DS) Sampling point in the water distribution system.
- Entry Point (EP) The first sampling point in the water distribution system.
- Locational Running Annual Average (LRAA) The average of sample analytical results for samples taken at a
 particular monitoring location during the previous four calendar quarters under the Stage 2 Disinfectants and
 Disinfection Byproducts Rule.
- 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.
- **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 Disinfection Level (MRDL)** The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.
- Maximum Residual Disinfection 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.
- **Minimum Detection Level (MDL)** The lowest concentration value for quantitative data with known precision and bias for a specific analyte in a specific matrix.
- **Nephelometric Turbidity Unit (NTU)** Nephelometric turbidity unit is a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.
- **Not-applicable (N/A)** Information not applicable/ not required for that particular water system or for that particular rule.
- Parts per million (ppm) or Milligrams per liter (mg/L) One part per million corresponds to minute in in two years or a single penny in \$10,000.
- Parts per billion (ppb) or Micrograms per liter (ug/L) One part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.
- Parts per trillion (ppt) or Nanograms per liter (nanograms/L) One part per trillion corresponds to one minute in 2,000,000 years, or a single penny in \$10,000,000,000.
- Raw Water (RW) Sampling point from the water source.
- Treatment Technique (TT) A required process intended to reduce the level of a contaminant in drinking water.