



* National Environmental Laboratory Accreditation Program (NELAP Institute/TNI)

What does the utility do to assure my drinking water complies with federal and state standards?

Before water ever reaches your tap, it goes through a multi-step treatment process.

Where does my water come from?

Your tap water originates from the Biscayne Aquifer, which lies 50-200 feet underground. The Aquifer is comprised primarily of limestone and sand. Biscayne Aquifer

As a groundwater source, the Aquifer is naturally protected from undesirable microbial pathogens that are common in surface water supplies. This is due to the natural filtration that occurs in the Aquifer and the amount of time the water resides in the ground prior to being withdrawn.

Source Water Assessment

In 2021 the Florida Department of Environmental Protection performed a Source Water Assessment on our systems. The assessment was conducted to provide information about any potential sources of contamination in the vicinity of our wells. There are three (3) potential sources of contamination identified for the 1A system with a low susceptibility level, and ten (10) potential sources of contamination identified for the 2A system with a low susceptibility level. In 2021, FDEP performed a Source Water Assessment for the City of Hollywood which provides water for our 3A and 3B/C systems; there are thirteen (13) potential sources of contamination identified for the 3A/3BC systems with a low susceptibility level. The assessment results are available on the FDEP Source Water Assessment Protection Program website at <https://fldep.dep.state.fl.us/swapp> or they can be obtained from Broward County by calling 954-831-3250.

Monitoring

Broward County Water and Wastewater (WWS) Services routinely monitors for contaminants in your drinking water according to Federal and State laws, rules, and regulations. Except where indicated otherwise, this report is based on the results of our monitoring for the period of January

Disinfection

Disinfection, which is the final treatment step, is accomplished by the addition of chlorine and ammonia, otherwise known as chloramines. A small amount (residual levels) of chloramines disinfectant is maintained throughout the distribution system in order to control microbial regrowth.

Filtration

Filtration is used following softening to further treat the softened water by removing the remaining particulate matter from the treated water.

Fluoridation

Following softening, fluoride is added for enhanced protection against tooth decay.

Softening

At the water treatment plant, the ground water is initially treated with lime and ferric chloride to reduce hardness and color. During this step of the treatment process, chemicals are added so that most of the hardness and particles in the water can be easily removed.

WaterQualityReport.Broward.org

Broward County Water and Wastewater Services District Service Areas Map can be found at WaterQualityReport.Broward.org and 3B/C.

The following provided table lists the parameters set by the Safe Drinking Water Act and the levels detected in potable water for Districts 1A, 2A, 3A

WWS also employs certified water treatment operators who conduct more than 291,230 process control tests annually. These tests ensure that the water treated and delivered to Broward County customers meets or exceeds all federal requirements for safe drinking water under the Safe Drinking Water Act.

More than 15,456 tests are performed each year to comply with national standards in WWS' NELAP* certified drinking water laboratory.

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January 1, 2021, and presented in this report are from the most recent testing done in accordance with the laws, rules, and regulations.

Dear Valued Customers,

Broward County Water and Wastewater Services (WWS) is pleased to provide you with its 2021 Water Quality Report. In 2021, WWS continued its tradition of providing high quality drinking water to our customers at a reasonable price. Once again, our water met or exceeded all federal Safe Drinking Water Act standards. Last year, WWS made significant strides in its ongoing efforts to provide the best quality service to its customers.

Construction has continued for WWS' Local Utility Program. The Local Utility Program began in 2009 with the Utility Analysis Zone (UAZ) projects. UAZ projects focus on water and sanitary sewer improvements which are currently estimated at \$275 million over the next 20 years.

WWS' commitment to serving our valued customers was recognized by both professional regulatory authorities and our peers as we received the following prestigious awards.

2021 Florida Department of Environmental Protection Water Plant Operations Excellence Award. The award is presented to drinking water and domestic wastewater facilities around the state that demonstrate excellence in operation, maintenance, innovative treatment, waste reduction and pollution prevention, recycling or other special achievements.

2021 Water Resources Utility of the Future Today (UotFT) Honoree. UotFT Recognition Program honors forward thinking, innovative water utilities that are providing resilient value-added service to communities, particularly in community engagement, watershed stewardship, and recovery of resources such as water, energy, and nutrients. This is the third year in a row that WWS has received this prestigious recognition. This year, WWS received recognition for the 16 million gallon per day expansion of the reuse system and installation of over 10 miles of transmission mains to reach new users.

2021 Florida Section American Water Works Association-Outstanding Water Distribution System (Division 6) This prestigious award is a testament to our employees' hard work, knowledge, experience, and continual effort to provide the highest level of professionalism and service. This is the fifth time WWS has won this prestigious award.

We take a great deal of pride in the job that we do and recognize that we play a vital role in maintaining the health and well being of our customers. We remain steadfast in our commitment to always do our best to provide the highest quality of service. On behalf of Water and Wastewater Services 400+ employees, we thank you for being our customer and an important partner in our continuing effort to remain one of the best utilities in the nation.

Alan W. Garcia, P.E., Director

Broward County Water and Wastewater Services

WATER AND WASTEWATER SERVICES:

2555 West Copans Road,
Pompano Beach, FL 33069
Broward.org/Waterservices
Phone: 954-831-3250

EMPLOYMENT INFORMATION:

Phone: 954-357-JOBS
Broward.org/Careers

ADDITIONAL INFORMATION:

Environmental Protection Agency
Safe Drinking Water Hotline
Phone: 800-426-4791
epa.gov/safewater

National Centers for Disease Control
Phone: 800-232-4636
cdc.gov

American Water Works Association
Phone: 800-926-7337
awwa.org

South Florida Water Management District
Phone: 800-662-8876
sfwmd.gov

FOR ADDITIONAL COPIES OF THIS REPORT, CONTACT:

Water and Wastewater Operations Division
Phone: 954-831-0810
Fax: 954-831-0842

TO VIEW THE 2021 WATER QUALITY REPORT ONLINE, GO TO:

WaterQualityReport.Broward.org



A Service of the Broward County
Board of County Commissioners

An Equal-Opportunity Employer and Provider of Services

The Broward County Commission meets in formal session on most Tuesdays, as scheduled, at 10AM in room 422 of the Broward County Governmental Center, 115 S. Andrews Avenue in Fort Lauderdale. The meeting calendar is updated regularly to reflect workshops, holidays and winter/summer recess.

200 copies of this public document were promulgated at a gross cost of \$272.00 and \$1.36 per copy including postage to provide public information about Broward County's drinking water quality during 2021.

If you pay the water bill for a condominium or rental property (residential or commercial), please advise your residents/tenants that this report is available.

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Water and Wastewater Services

2021 Water Quality Report

Este reporte se publica anualmente para brindar información a nuestra clientela sobre la calidad del agua potable. Si desea atención en español, puede comunicarse con el Departamento de Servicio al Cliente al 954-831-3250.

WHAT IS IN MY WATER? - TEST RESULTS (3A and 3BC water supplied by the City of Hollywood)

INORGANIC CONTAMINANTS									
Contaminant	Dates of Sampling (mo/yr)	MCL Violation Y/N	1A	2A	3A	3BC	MCLG	MCL	Likely Source of Contamination
Arsenic (ppb)	5/20-7/21	N	0.480	0.319	0.55	0.55	0	10	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
Barium (ppm)	5/20-7/21	N	0.00328	0.007403	0.0041	0.0041	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Chromium (ppb)	5/20-7/21	N	0.398	0.312	ND	ND	100	100	Discharge from steel and pulp mills; erosion of natural deposits
Fluoride (ppm)	5/20-7/21	N	0.686	0.732	0.69	0.69	4	4.0	Erosion of natural deposits; discharge from fertilizer and aluminum factories. Water additive which promotes strong teeth when at the optimum level of 0.7 ppm
Nitrate (as Nitrogen) (ppm)	6/21-7/21	N	0.430	0.203	0.10	0.10	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Selenium (ppb)	5/20-7/21	N	0.488	0.439	ND	ND	50	50	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines
Sodium (ppm)	5/20-7/21	N	44.3	40.2	26.2	26.2	NA	160	Salt water intrusion, leaching from soil
DISINFECTANTS and DISINFECTION BY-PRODUCTS									
Contaminant	Dates of Sampling (mo/yr)	MCL Violation Y/N	1A (range)	2A (range)	3A (range)	3BC (range)	MCLG or MRDLG	MCL or MRDL	Likely Source of Contamination
Chlorine (ppm)	01/21-12/21	N	3.6 (0.6-5.1)	3.8 (2.3-4.5)	3.3 (0.4-4.7)	3.0 (0.5-4.5)	4.0	4.0	Water additive used to control microbes
HAA5-haloacetic acids (ppb)		N	45.6 (28.8-54.3)	24.2 (17.2-24.2)	16.2 (15.0-16.2)	27.2 (10.4-27.2)	NA	60	By-product of drinking water disinfection
THM-total trihalomethanes(ppb)		N	58.8 (30.1-63.8)	33.5 (30.1-33.5)	18.5 (11.8-18.5)	16.2 (16.0-16.2)	NA	80	By-product of drinking water disinfection
LEAD & COPPER (Tap Water)									
Contaminant (90th Percentile Value)	Dates of Sampling (mo/yr)	MCL Violation Y/N	1A	2A	3A	3BC	MCLG	Action Level (AL)	Likely Source of Contamination
Copper (Tap Water) (ppm)	7/19	N	0.1261	0.1049	0.0570	0.0473	1.3	1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
# of Sites exceeding the AL			0	0	0	0			
Lead (Tap Water) (ppb)		N	6.06	12.85	5.22	1.15	0	15	Corrosion of household plumbing systems; erosion of natural deposits
# of Sites exceeding the AL			0	2	2	1			

Definitions for the Tables

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

Maximum Contaminant Level or MCL: The highest level of 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 or 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 or 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 Disinfectant Level Goal or 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.

Parts per billion (ppb) or Micrograms per liter (µg/l): One part by weight of analyte to 1 billion parts by weight of the water sample.

Parts per million (ppm) or Milligrams per liter (mg/l): One part by weight of analyte to 1 million parts by weight of the water sample.

ND: Means not detected and indicates that the substance was not found by laboratory analysis.

NA: Not applicable.

How Do Contaminants Get Into Drinking Water?

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.
- Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities.

To ensure that tap water is safe to drink, the EPA prescribes regulations, which limit the amount of certain contaminants in water provided by public water systems. The 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 the 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 at 1-800-426-4791.

Immuno-Compromised Persons

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 (CDC) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbiological contaminants are available from the Safe Drinking Water Hotline at 800-426-4791.

Lead in Drinking Water

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. WWS 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 two 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 epa.gov/safewater/lead.