

Important Health Information

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised 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 microbiological contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

A Special Note About 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. The City of Fort Walton Beach 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>

Source Water Assessment

In 2018 the Florida Department of Environmental Protection performed a Source Water Assessment on our system. The assessment was conducted to provide information about any potential sources of contamination in the vicinity of our wells. There are 17 potential sources of contamination identified for this system with low to moderate susceptibility levels. The assessment results are available on the FDEP Source Water Assessment and Protection Program website at www.dep.state.fl.us/swapp.

Community Participation

You are welcome to attend Fort Walton Beach regularly scheduled Council meetings held on the second and fourth Tuesday of every month. Contact the City Clerk at 833-9511 to confirm day, time and location of meeting.

Substances that might be in 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:

(A) **Microbial contaminants**, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

(B) **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.

(C) **Pesticides and herbicides**, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.

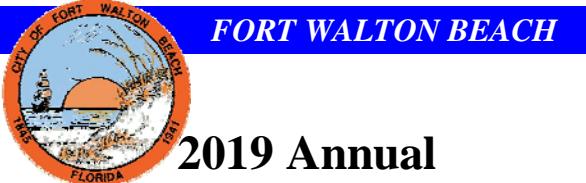
(D) **Organic chemical contaminants**, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.

(E) **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, 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 (800-426-4791).

Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially harmful, waterborne pathogens may be present or that a potential pathway exists through which contamination may enter the drinking water distribution system. We found coliforms indicating the need to look for potential problems in water treatment or distribution. When this occurs, we are required to conduct assessment(s) to identify problems and to correct any problems that were found during these assessments. During the past year we were required to conduct a Level 1 assessment due to two positive total coliform samples in August 2018. 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. The one Level 1 assessment was completed September 7 2018. We were required to take one corrective action as a result of this assessment. We have reviewed and updated our sampling plan to prevent this from reoccurring by changing two sample locations which were overgrown with vegetation.



FORT WALTON BEACH

2019 Annual WATER QUALITY Report

WATER TESTING PERFORMED IN 2018
PWS ID# 1460144



WE ARE PLEASED TO REPORT THAT OUR DRINKING WATER MEETS ALL FEDERAL AND STATE REQUIREMENTS

Purpose of report

The purpose of this report is to provide you with information about the quality of water and services we deliver to you every day. We ask that all our customers help us protect our water sources, which are the heart of our community, our way of life and our children's future. The Water Treatment staff works around the clock to meet our goal to provide you with a high quality safe and dependable supply of drinking water.

During the past year we have taken thousands of water samples to ensure the quality of your drinking water. The table attached shows only those contaminants that were detected in the water. The State has reduced monitoring requirements for certain contaminants to less often than once per year because the concentration of these contaminants is not expected to vary significantly from year to year. In those cases, the most recent sample data are included along with the year in which the sample was taken.

The City of Fort Walton Beach 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 1, 2018 to December 31, 2018. Data obtained before January 1, 2018, and presented in this report are from the most recent testing done in accordance with the laws, rules, and regulations.

If you have any questions about this report or water quality in the City of Fort Walton Beach, please contact Daniel Payne, Engineering & Utility Services Director at 833-9613.

Where Does Our Drinking Water Come From And How Is It Purified?

The City of Fort Walton Beach's water system processed approximately 900 million gallons of water in 2018. Our water comes from eight deep wells drawing ground water from the Floridan Aquifer, which provides a very high quality water source. With the excellent water quality of the Floridan Aquifer, the only treatments required to meet Federal and State standards are aeration and chlorination.

2018 WATER TESTING RESULTS							
INORGANIC CONTAMINANTS							
Contaminant and Unit of Measurement	Dates of sampling (mo./yr.)	MCL Violation (Yes/No)	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination
Barium (ppm)	May 2017	No	0.35	0.005-0.35	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Fluoride (ppm)	May 2017	No	1.1	0.45-1.1	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
Lead (point of entry) (ppb)	May 2017	No	1	ND-1	0	15	Residue from man-made pollution such as auto emissions and paint; lead pipe, casing, and solder
Nitrate (as Nitrogen) (ppm)	April 2018	No	0.39	ND-0.39	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Sodium (ppm)	May 2017	No	110	35-110	n/a	160	Salt water intrusion, leaching from soil
RADIOACTIVE CONTAMINANTS							
Alpha emitters (pCi/L)	Jan & May 2017	No	2.7	ND-2.7	0	15	Erosion of natural deposits
Radium 226 +228 or combined radium (pCi/L)	Jan & May 2017	No	1.49	0.4-1.49	0	5	Erosion of natural deposits
STAGE 2 DISINFECTANTS AND DISINFECTION BY-PRODUCTS							
Disinfectant or Contaminant and Unit of Measurement	Dates of sampling (mo./yr.)	MCL or MRDL Violation (Yes/No)	Level Detected	Range of Results	MCLG or MRDLG	MCL or MRDL	Likely Source of Contamination
Chlorine (ppm) – Stage 1	Jan-Dec 2018	No	0.71	0.59-0.78	MRDLG = 4	MRDL = 4.0	Water additive used to control microbes
Haloacetic Acids (five) (HAA5) (ppb)	July 2018	No	9.6	5.7-9.6	n/a	MCL = 60	By-product of drinking water disinfection
TTHM (Total trihalomethanes) (ppb)	July 2018	No	26.98	23.32-26.98	n/a	MCL = 80	By-product of drinking water disinfection
LEAD AND COPPER (TAP WATER)							
Contaminant and Unit of Measurement	Dates of Sampling (mo./yr.)	AL Exceeded (Yes/No)	90 th Percentile Result	No. Exceeding the AL	MCLG	AL (Action Level)	Likely Source of Contamination
Copper (tap water) (ppm)	Jun-Sept 2017	No	0.22	0 of 30	1.3	1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead (tap water) (ppb)	Jun-Sept 2017	No	2.3	1 of 30	0	15	Corrosion of household plumbing systems; erosion of natural deposits

We monitored for unregulated contaminants (UCs) in 2018 as part of a study to help the U.S. Environmental Protection Agency (EPA) determine the occurrence in drinking water of UCs and whether or not these contaminants need to be regulated. At present, no health standards (for example, maximum contaminant levels) or likely sources have been established for UCs. However, we are required to publish the analytical results of our UC monitoring in our annual water quality report. All detections are shown on the table, but if you would like a copy of all our 2018 UC data, contact this water system at the number provided in this report. We will also be monitoring the first 6- month period of 2019 for UCs. They will be published as required in our 2020 Water Quality Report. However, if you would like a copy of the results sooner, please contact Water Operations at 850-833-9630 to get a copy as soon as they are received by us. If you would like more information on the EPA's Unregulated Contaminants Monitoring Rule, please call the Safe Drinking Water Hotline at (800) 426-4791.

Unregulated Contaminants				
Contaminant (Unit of Measurement= ppb)	Dates of sampling (mo/yr)	Level Detected (average)	Range	Likely Source of Contamination
Manganese	October 22 2018	0.336 ppb	ND-1.8 ppb	Unavailable
HAA5	October 22 2018	6.09 ppb	4.57-7.61 ppb	Unavailable
HAA6Br	October 22 2018	8.83 ppb	6.58-11.01 ppb	Unavailable
HAA9	October 22 2018	10.32 ppb	7.93-12.71 ppb	Unavailable
Bromide	October 22 2018	179 ppb	66-294 ppb	Unavailable

In the table to the left you will find many terms and abbreviations, some of which you might not be familiar. To help you better understand these terms, we have provided the following definitions:

n/a: not applicable

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

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

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

Picocuries per liter (pCi/L): measure of the radioactivity in water.

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

Maximum Contaminant Level or 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 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.