

Water Quality Report – 2017

City of Palatka

The City of Palatka is pleased to present to you this year's Water Quality Report. This report is designed to inform you about the quality water and services we deliver to you every day. It covers the period from January 1, 2017 through December 31, 2017. Our constant goal is to provide you with a safe and dependable supply of drinking water.

The City's water supply is taken from groundwater sources. It is then aerated for hydrogen sulfide removal, pH adjustment, polyphosphate is added for corrosion control, and chlorinated for disinfection purposes. The City of Palatka has seven wells, which are located between Moody Road and Kay Larkin Drive on the west side of Palatka. The wells draw from the Floridian Aquifer. Over the period included in this report your water treatment system treated and supplied almost 567.1 million gallons of water to approximately 6000 service connections.

In 2017 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 four potential sources of contamination identified for this system with low susceptibility levels. The assessment results are available on the FDEP SWAPP website at https://fldep.dep.state.fl.us/swapp/ or they can be obtained from R.C. Willis Water Plant at (386) 329-0144.

If you have any questions about this report or concerning your water utility, please contact Kayla Wylie at (386) 329-0144. We want our valued customers to be informed about their water utility. If you want to learn more, please attend any of our regularly scheduled meetings. They are held on the second and fourth Thursdays of each month at 6:00 PM at City Hall.

The City of Palatka routinely monitors for contaminants in your drinking water according to Federal and State laws, rules and regulations. Except where indicated otherwise, this table shows the results of our monitoring for the period of January 1st to December 31st 2017. Data obtained before January 1, 2017, and presented in this report are from the most recent testing done in accordance with the laws, rules, and regulations. As water travels over the land or underground it can pick up substances or contaminants such as microbes, inorganic and organic chemicals, and radioactive substances. All drinking water, including bottled drinking water, may be reasonably expected to contain at least small amounts of some contaminants. It's important to remember that the presence of these contaminants does not necessarily pose a health risk.

WATER QUALITY TEST RESULTS TABLE										
Inorganic Contaminants*										
Contaminant and Unit of Measurement	Dates of sampling (mo./yr.)	MCL Violation Y/N	Level Detected Range of Re		MCLG	MCL	Likely Source of Contamination			
Barium (ppm)	6/2017	Ν	0.012	N/A	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits			
Chromium (ppb)	6/2017	Ν	2	N/A	100	100	Discharge from steel and pulp mills; erosion of natural deposits			
Fluoride (ppm)	6/2017	Ν	0.22	N/A	4	4.0	Erosion of natural deposits; discharge from fertilizer and aluminum factories.			
Lead (point of entry) (ppb)	6/2017	Ν	0.5	N/A	0	15	Residue from man-made pollution such as auto emissions and paint; lead pipe, casing, and solder			
Nickel (ppb)	6/2017	Ν	2	N/A	N/A	100	Pollution from mining and refining operations. Natural occurrence in soil			
Nitrate (as Nitrogen) (ppm)	6/2017	Ν	0.04	N/A	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits			
Sodium (ppm)	6/2017	Ν	65.8	N/A	N/A	160	Salt water intrusion, leaching from soil			

Stage I Disinfectants**											
Disinfectant or Contaminant and Unit of Measurement	Dates of sampling (mo./yr.)	MCL or MRDL Violation Y/N	Level Detected	Range of Results	MCLG or MRDLG	MCL or MRDL	Likely Source of Contamination				
Chlorine (ppm)	2017	Ν	0.86	0.52 - 1.64	MRDLG=4	MRDL = 4.0	Water additive used to control microbes				

Stage 2 Disinfection By-Products***										
Contaminant and Unit of Measurement	Dates of sampling (mo./yr.)	MCL Violation Y/N	Level Detected	Range of Results	MCLG	MCL or MRDL	Likely Source of Contamination			
Haloacetic Acids (five) (HAA5) (ppb)	3/2017, 6/2017, 10/2017, 12/2017	N (LRAA)	20.08	4.28 – 29.20	N/A	MCL = 60	By-product of drinking water disinfection			
TTHM (ppb)	3/2017, 6/2017, 10/2017, 12/2017	Y (LRAA)	106.20	42.70 - 194	N/A	80	By-product of drinking water chlorination			

In 2017, the Total trihalomethanes exceeded the Maximum Contaminant Level. The City of Palatka is working with the Florida Department of Environmental Protection and Florida Rural Water Association to implement maintenance changes and conducted a pilot study to evaluate additional treatment for Disinfection Byproducts. For more information on sample results and the Locational Running Average, please check the table below. 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.

TTHM Monitoring Results (ppb)	1 st quarter 2017	2 nd quarter 2017	3 rd quarter 2017	4 th quarter 2017	
L1: Boat Ramp Quarterly Results	83.50	59.50	152.00	105.52	
L1: Boat Ramp LRAA***	71.88	66.35	85.70	100.13	
L2: River & 13th St Quarterly Results	76.20	46.90	194.00	90.18	
L2: River & 13th St LRAA***	61.78	55.73	88.38	101.82	
L3: Bronson & 7th St Quarterly Results	74.60	42.70	188.00	119.50	
L3: Bronson & 7th St LRAA***	70.68	59.13	84.55	106.20	
L4: Crestwood & Cedar Quarterly Results	71.40	53.20	140.00	110.48	
L4: Crestwood & Cedar LRAA***	59.38	55.18	77.20	93.77	

Contaminant and unit of measurement	Date of Sampling	AL Violation Y/N	90 th Percentile Result	No. of sites exceeding the AL	MCLG	AL (Action Level)	Likely Source of Contamination
Lead and Copper (Tap Water)							·
Copper (ppm)	9/2016	Ν	0.158	0	1.3	1.3	Corrosion of household plumbing systems, erosion of natural deposits, leaching from wood preservatives
Lead (ppb)	9/2016	N	1.52	0	0	15	Corrosion of household plumbing systems, erosion of natural deposits

Contaminant and Unit of Measurement	Dates of sampling (mo/yr)	MCL Violation Y/N	Highest Result	Range of Results	MCLG	MCL	Likely Source of Contamination
Secondary Contaminants							
Total Dissolved Solids (ppm)	6/2017	Y	543	N/A	N/A	500	Natural occurrence from soil leaching

Secondary contaminants affect the aesthetic quality of the water but are not considered a health risk.

As part of our 2017 Drinking Water Monitoring requirements, we conducted sampling for Secondary Contaminants to be analyzed by the lab. Due to an error at the lab, the testing for Foaming Agents was not completed. As a result, we failed to complete required sampling for Foaming Agents, a Secondary Contaminant, on time and therefore were in violation of monitoring and reporting requirements. Because we did not take the required, we did not know whether the contaminants were present in your drinking water, and we are unable to tell you about the quality of your water during that time. The monitoring period was 1/1/17 through 12/31/17. Sampling resumed on March 2018 and foaming agents were not detected.

* Results in the Level Detected column for inorganic contaminants are the highest average at any of the sampling points or the highest detected level at any sampling point, depending on the sampling frequency.

** For chlorine, the level detected is the highest running annual average (RAA), computed quarterly, of monthly averages of all samples collected.

*** For haloacetic acids or TTHM, the level detected is the highest RAA, computed quarterly, of quarterly averages of all samples collected if the system is monitoring quarterly or is the average of all samples taken during the year if the system monitors less frequently than quarterly. Range of Results is the range of individual sample results (lowest to highest) for all monitoring locations

**** Reported LRAA for quarters 1-3 are based on results from previous quarters not reported on this table.

The Environmental Protection Agency (EPA) requires monitoring of over 80 drinking water contaminants. Those contaminants listed in the tables above are the only contaminants detected in your drinking water.

In this table above, you will find many terms and abbreviations you might not be familiar with. To help you better understand these terms we've provided the following definitions:

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

<u>Maximum Contaminant Level or MCL</u> - 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.

<u>Maximum Contaminant Level Goal or MCLG</u> - 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.

<u>Maximum residual disinfectant level or MRDL</u> - 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.

<u>Maximum residual disinfectant level goal or MRDLG</u> - 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

<u>**Parts per million (ppm) or Milligrams per liter (mg/l)**</u> – one part by weight of analyte to 1 million parts by weight of the water sample.

<u>**Parts per billion (ppb)** or **Micrograms per liter (\mu g/l)** – one part by weight of analyte to 1 billion parts by weight of the water sample.</u>

Lead. If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Infants and children who drink water containing lead in excess of the MCL could experience delays in their physical and mental development. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. The Palatka Water Treatment System 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. Lead in drinking water is rarely the sole cause of lead poisoning, but it can add to a person's total lead exposure. All potential sources of lead in the household should be identified and removed replaced or reduced. 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:

(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 1-800-426-4791.

Thank you for allowing us to continue providing your family with clean, quality water this year. In order to maintain a safe and dependable water supply we sometimes need to make improvements that will benefit all of our customers. These improvements are sometimes reflected as rate structure adjustments. Thank you for understanding.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunecompromised 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).

Please call our office, at (386) 329-0144, if you have questions. We at the City of Palatka work around the clock to provide top quality water to every tap. 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.