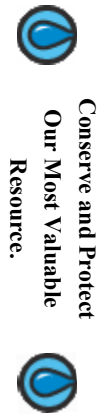


Floral City Water Association, Inc. (FCWAI) is pleased to present our 2015 Annual Drinking Water Quality Report. This report is designed to inform you about the quality of the water and services we deliver to you every day. Our constant goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. At Floral City Water Association, we are committed to ensuring the quality of your water.

**2015 Annual Drinking Water Quality Report**  
**For**  
**Floral City Water Association Incorporated**  
**Public Water Supply ID #6090588 June 30, 2016**



Floral City Water Association Inc.  
P.O. Box 597  
Floral City, FL 34436

Maximum Contaminant Levels (MCLs) are set at very stringent levels. To understand the possible health effects described for many regulated contaminants, a person would have to drink 2 liters of water every day at the MCL level for a lifetime to have a one-in-a-million chance of having the described health effect.

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 microbiological 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. Floral City Water Association 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>.

Our primary objective at Floral City Water Association, Inc. is to provide safe, clean drinking water to our customers. We realize this is a great responsibility and work around the clock to ensure this. If there are ever any questions about the quality or safety of our water, we urge you to contact the office anytime, 24-hours a day. We take this task very seriously and 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.

Please call our office if you have questions.

Gary Judd  
Superintendent  
June 30, 2016

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**Source Water:**

FCWAI's water source consists of four groundwater wells drawing water from the Floridan Aquifer. This water is treated at two separate facilities through the use of aeration, filtration, and chlorination. These facilities provide water to over 56 miles of distribution system and almost 2200 separate service accounts. With the assistance of Florida Rural Water Association and to ensure the quality of our water, FCWAI has developed a Well Head Protection Plan to prevent possible contamination. In addition to this FCWAI employs two state licensed water treatment operator, three certified distribution technicians, and we have in place a continuing education program to keep our employees current on their knowledge of operations, testing, and maintenance of our facilities.

The 2015 Department of Environmental Protection (DEP) source water assessment of our wells shows some potential contaminant sources. The purpose of the Source Water Assessment and Protection Plan (SWAPP) is to identify potential sources of contamination in the vicinity of our supply wells. The assessment identified two possible sources of contamination which could possibly affect Wells 1 and 2 at Plant #1. Both are connected with the Floral Oaks wastewater facility on Bedford Road and the Concern Level is Low. This is only a potential problem not an actual condition. For more information about SWAPP and a full account of our facility go to [www.dep.state.fl.us/swapp](http://www.dep.state.fl.us/swapp).

This Annual Drinking Water Quality Report shows our water quality results and what they mean. If you have any questions about this report or concerning your water utility, please contact Gary Judd at 352-726-3366. We want our customers to be informed about their water utility. If you want to learn more, please contact our office during normal business hours. You can also attend our Annual Membership Meeting held every year on the third Saturday of February. Please call for the location and time of the meeting. Our regularly scheduled monthly meetings take place on the third Monday of every month. You must submit a written request however, to be placed on the agenda.

FCWAI routinely monitors for contaminants in your drinking water according to Federal and State laws. This table shows the results of our monitoring for the period, of January 1<sup>st</sup> 2015 to December 31<sup>st</sup> 2015 except where indicated otherwise. As authorized and approved by the EPA, the State has reduced monitoring requirements for certain contaminants to less often than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of our data, though representative, may be over one year old.

In the following tables, you will find many terms and abbreviations you may not be familiar with. To help you better understand these terms we have provided the following definitions:

**Definitions**

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. One part per million corresponds to one second in 11.5 days or a single penny in \$10,000.

Parts per billion (ppb) or Micrograms per liter (ug/l) - One part by weight of analyte to 1 billion parts by weight of the water sample. One part per billion corresponds to one second in 31.7 years, or a single penny in \$10,000,000.00.

Parts per trillion (ppt) or Nanograms per liter (nanograms/l) - One part by weight of analyte to 1 trillion parts by weight of the water sample. One part per trillion corresponds to one second in 31,700 years, or a single penny in \$10,000,000,000.00.

Parts per quadrillion (ppq) or Picograms per liter (picograms/l) - One part by weight of analyte to 1 trillion parts by weight of the water sample. One part per trillion corresponds to one second in 31.7 million years, or a single penny in \$10,000,000,000,000.00.

Pico curies per liter (pCi/L) - picocuries per liter are a measure of the radioactivity in water.

Millirems per year (mrem/yr) - measure of radiation absorbed by the body.

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.

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

Initial Distribution System Evaluation (IDSE) – An important part of the Stage 2 Disinfection Byproducts Rule (DBPR). The IDSE is a one-time study conducted by water companies to identify distribution system locations with high concentrations of trihalomethanes

(THMs) and haloacetic acids (HAAs). Water systems will use results from the IDSE, in conjunction with their Stage 1 DBPR compliance monitoring data, to select compliance monitoring locations for the Stage 2 DBPR.

Treatment Technique (TT) - A treatment technique is a required process intended to reduce the level of a contaminant in drinking water.

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 contaminant.

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.

Maximum Contaminant Level (MCL) - The "Maximum Allowed" (MCL) is 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 "Goal" (MCLG) is 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.

Not Detected (ND) – indicates that the substance was not found by laboratory analysis.

N/A – Not Applicable. These tests did not apply to our system.

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 Safe Drinking Water Hotline at 1-800-426-4791.

The following is a table of samples taken. Although additional samples were taken for other constituents in our water, no detectable amounts were found. Included is also a small description of how and why these contaminants can enter our water supply. This description may introduce many of you to the sources of these contaminants.

**NON-SECONDARY CONTAMINANTS TABLE**

** Results in the Level Detected column for radiological contaminants, inorganic contaminants, synthetic organic contaminants including pesticides and herbicides, and volatile organic 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.							
Contaminant (Unit Measurement)	Dates of sampling (mo./yr.)	MCL Violation Y/N	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination
<b>Inorganic Contaminants</b>							
Arsenic (ppb)	6/14	N	2.5	1.8-2.5	0	10	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics productions waste.
Barium (ppm)	6/14	N	0.02	0.0052-0.020	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits.
Beryllium (ppb)	6/14	N	0.2	ND-0.2	4	4	Discharge from metal refineries and coal burning factories; discharge from electrical, aerospace, and defense industries.
Chromium (ppb)	6/14	N	5.1	3.8-5.1	100	100	Discharge from steel and pulp mills; erosion of natural deposits.
Cyanide (ppb)	6/14	N	3.0	ND-3.0	200	200	Discharge from steel/metal factories; discharge from plastic and fertilizer factories.
Fluoride (ppm)	5/14	N	0.059	0.057-0.059	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.
Nickel (ppb)	6/14	N	2.2	2.1-2.2	N/A	100	Pollution from mining and refining operations. Natural occurrence in soil.
Nitrate (as Nitrogen) (ppm)	12/15	N	0.12	0.08-0.12	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits.
Selenium (ppb)	6/14	N	4.8	1.4-4.8	50	50	Pollution from mining and refining operations. Natural occurrence in soil.
Sodium (ppm)	6/14	N	10.0	8.4-10.0	N/A	160	Salt water intrusion, leaching from soil.
<b>Secondary Contaminants</b>							
Odor (threshold odor number)	5/14	Y	4	1-4	N/A	3	Naturally occurring organics.
<b>TTHMs and Stage 1 Disinfectant/Disinfection By-Product (D/DBP) Parameters</b>							
For bromate, chloramines, or 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, including Initial Distribution System Evaluation (IDSE) results as well as Stage 1 compliance results.							
Contaminant (Unit Measurement)	Dates of sampling (mo./yr.)	MCL Violation Y/N	Level Detected	Range of Results	MCLG or MRDLG	MCL or MRDL	Likely Source of Contamination
Chlorine (ppm)	Daily	N	2.66	0.20- 2.66	MRDGL=4.0	MRDL = 4.0	Water additive used to control microbes
Haloacetic Acids (five) (HAA5) (ppb)	3/15 6/15 9/15 12/15	N	28.60	ND - 28.60	NA	MCL = 60	By-product of drinking water disinfection
TTHM [Total Trihalomethanes] (ppb)	3/15 6/15 9/15 12/15	Y	138.0	2.97 - 145.0	NA	MCL = 80	By-product of drinking water disinfection
Acute MRDL violation: If any daily sample taken at the entrance to the distribution system exceeds the MRDL, and on the following day one or more of the three samples taken in the distribution system exceed the MRDL, then the system is in violation. In addition, failure to take samples in the distribution system the day following an exceedance of the chlorine dioxide MRDL at the entrance to the distribution is also considered an acute MRDL violation. Nonacute MRDL violation: If any two consecutive daily samples taken at the entrance to the distribution system exceed the MRDL and all distribution system samples are less than the MRDL, the system is in violation of the MRDL.							
Contaminant (Unit Measurement)	Dates of sampling (mo./yr.)	AL Violation Y/N	90th Percentile Result	No. of sampling sites exceeding the AL	MCLG	AL (Action Level)	Likely Source of Contamination
<b>Lead and Copper (Tap Water)</b>							
Copper (tap water) (ppm)	7/14	N	0.56	0	1.3	1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

Floral City Water Association Inc. is required to sample for Haloacetic Acids(HAA5) and Total Trihalomethanes (TTHMs). These are byproducts formed by the combination of Chlorine and naturally occurring organics found in water during disinfection. Some people who drink water containing Haloacetic Acids in excess of the MCL over many years may have an increased risk of getting cancer. 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 cancer. Average HAA5 levels did not exceed the MCL in 2015. Average TTHM levels in 2015 did exceed the MCL by 39.5 parts per billion. This is the equivalent of less than 40 seconds in 31.7 years. Floral City Water Assn. Inc. has completed the construction of a new facility on Stagecoach Trail which eliminated the issues with TriHaloMethanes.

Floral City Water Association Inc was in violation of the federal and state water quality standard for Odor on 5/30/14. The high level of Oder is shown in the Test Results Table. Secondary contaminants are considered aesthetic violations, and are not considered by the EPA to have major health effects. The Department of Environmental Protection and Floral City Water Association Inc. will continue to monitor the situation.

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.

**Important Information Regarding Stage 2 Disinfection By-Products Rule**

On June 13 2011, Floral City Water Association received an Administrative Order from the United States Environmental Protection Agency for failure to prepare and submit an Initial Distribution System Evaluation (IDSE) Report as required by the Stage 2 Disinfectants and Disinfection By-Products Rule. This was a reporting violation only and Administrative Order has been completely resolved.

For more information contact our office at (352) 726-3366.