



2016 Annual Drinking Water Quality Report  
Northeast Utilities – Collier County Water and Sewer District  
PWS# 5114085

We are pleased to present this summary on the quality of water provided to you during 2016. This report is designed to inform you about the quality water and services delivered 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. We are committed to ensuring the quality of your water.

Our water source is groundwater from the Surficial Aquifer. The water is then filtered by reverse osmosis and chlorinated for disinfection. In 2016 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 2 potential sources of contamination identified for this system. The concern level is a low susceptibility level. The assessment results are available on the FDEP Source Water Assessment and Protection Program website at [www.dep.state.fl.us/swapp](http://www.dep.state.fl.us/swapp)

On March 1, 2017 Collier County Water Sewer District assumed operation of the Orange Tree Utility. If you have any questions about this report or concerning your water utility, please contact Collier County Water customer service at 239-252-2380. Orange Tree Utility routinely monitored 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 monitoring for the period of January 1 to December 31, 2016. Data obtained before January 1, 2015, and presented in this report are from the most recent testing done in accordance with the laws, rules, and regulations. As of March 1, 2017, the Collier County Water Sewer District will routinely monitor for contaminants in your drinking water according to Federal and State laws, rules, and regulations.

In the table below, you may find unfamiliar terms and abbreviations. To help you better understand these terms we've provided the following definitions:

**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.

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

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 ( $\mu\text{g/l}$ ): one part by weight of analyte to 1 billion parts by weight of the water sample.

Parts per million (ppm) or Milligrams per liter ( $\text{mg/l}$ ): one part by weight of analyte to 1 million parts by weight of the water sample.

Picocurie per liter ( $\text{pCi/L}$ ): measure of the radioactivity in water.

<b>Inorganic Contaminants</b>							
<b><i>Contaminant and Unit of Measurement</i></b>	<b><i>Dates of sampling (mo/yr)</i></b>	<b><i>MCL Violation Y/N</i></b>	<b><i>Level Detected</i></b>	<b><i>Range of Results</i></b>	<b><i>MCLG</i></b>	<b><i>MCL</i></b>	<b><i>Likely Source of Contamination</i></b>
Fluoride (ppm)	8/14	N	0.40	NA	4	4	Erosion of natural deposits; discharge from fertilizer and aluminum factories. Water additive which promotes strong teeth when at optimum levels between 0.7 and 1.3 ppm
Nitrate (as Nitrogen) (ppm)	12/15	N	0.03	NA	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits

Sodium (ppm)	8/14	N	8.78	NA	N/A	160	Salt water intrusion, leaching from soil
<b>Stage 1 Disinfectants and Disinfection By-Products</b>							
<i>Disinfectant or Contaminant and Unit of Measurement</i>	<i>Dates of sampling (mo/yr)</i>	<i>MCL or MRDL Violation Y/N</i>	<i>Level Detected</i>	<i>Range of Results</i>	<i>MCLG or MRDLG</i>	<i>MCL or MRDL</i>	<i>Likely Source of Contamination</i>
Chlorine (ppm)	1/16-12/16	N	1.2	1.0-1.8	MRDLG = 4	MRDL = 4.0	Water additive used to control microbes
<b>Stage 2 Disinfectants and Disinfection By-Products</b>							
<i>Contaminant and Unit of Measurement</i>	<i>Dates of sampling (mo/yr)</i>	<i>MCL Violation (Y/N)</i>	<i>Level Detected</i>	<i>Range of Results</i>	<i>MCLG</i>	<i>MCL</i>	<i>Likely Source of Contamination</i>
Haloacetic Acids (HAA5) (ppb)	9/16	N	2.1	NA	N/A	60	By-product of drinking water disinfection
Total Trihalomethanes (TTHM) (ppb)	9/16	N	5.1	NA	N/A	80	By-product of drinking water disinfection
<b>Lead and Copper (Tap Water)</b>							
<i>Contaminant and Unit of Measurement</i>	<i>Dates of sampling (mo/yr)</i>	<i>AL Exceeded (Y/N)</i>	<i>90th Percentile Result</i>	<i>No. of sampling sites exceeding the AL</i>	<i>MCLG</i>	<i>AL (Action Level)</i>	<i>Likely Source of Contamination</i>
Copper (tap water) (ppm)	9/14	N	.099	0	1.3	1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead (tap water) (ppb)	9/14	N	2.5	3	0	15	Corrosion of household plumbing systems; erosion of natural deposits

*Monitoring and reporting (M/R) of compliance data:*

Water utilities are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not your drinking water meets health standards. During the 2016 calendar year, the Orange Tree Utility Co. did not perform monitoring for the contaminants of Nitrate or Nitrite, and therefore cannot be sure of the quality of your drinking water (with respect to Nitrate and Nitrite) during that time. Although the Orange Tree Utility Co. Inc. water system failed to perform monitoring for Nitrate and Nitrite during the 2016 calendar year, it did collect samples for these parameters on January 11, 2017. The results of this sampling showed no detectable level of either Nitrate or Nitrite.

**Lead and Copper**

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. Orange Tree Utilities 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:

- (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.

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).