

YOUR WATER

ORANGE CITY UTILITIES

PWS# 3640946

WATER QUALITY REPORT | 2015

Planning for the Future of Your Water

Over the next 20 years, Orange City Utilities (OCU) will invest in proactive measures to protect the aquifer, provide clean and safe drinking water, and responsive customer service. Long-term planning and a strong conservation ethic are essential to the preservation of our natural resources. In 2015, OCU completed a project that included the installation of new water mains, valves and fire hydrants on multiple locations throughout Orange City. Also in 2015, Orange City began the replacement of the Carpenter Ave. water main. This project will be completed in 2016 and includes the installation of approximately 2-miles of new 12-inch diameter water main.



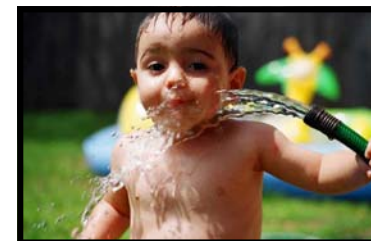
Why We Monitor

OCU provides this Annual Water Quality Report to our customers so you may understand the concerted and rigorous efforts that are made to continually maintain and improve the water-treatment process and preserve Orange City's precious water resources.



Providing Safe, Clean Water

This OCU system provides safe, clean drinking water to an approximate population of 11,000 who use a system wide daily average of approximately 1.5 million gallons per day. Making every drop safe is our top priority. OCU's water is tested continuously at our water treatment plants and throughout the distribution system. Water straight from the faucet continues to be safe, and the use of home filtration systems remains a matter of preference.



Value of Tap Water

You can drink **8 glasses of water** per day for
365 days (That's 2,920 glasses of water)

For **60¢**



Conserve Our Resources, Know When to Water

When landscaping, remember overwatering wastes water and damages your lawn. Follow the rules to help keep your lawn healthy.

*No more than 3/4-inch of water may be applied on irrigation days.

TIME OF YEAR	ODD-NUMBERED ADDRESSES	EVEN-NUMBERED ADDRESSES	BUSINESS PROPERTIES
Daylight Savings Time 3/13/16-11/6/16	Wednesday & Saturday	Thursday & Sunday	Tuesday & Friday
Eastern Standard Time 11/6/16-3/12/17	Saturday	Sunday	Tuesday

ORANGE CITY UTILITIES

Orange City Utilities is very pleased to provide you with this year's Annual Water Quality Report. We strive to keep you informed about the excellent water and services we have delivered to you over the past year. Our goal is, and always has been, to provide OCU customers safe and dependable supply of drinking water.

The Treatment Process

OCU treats groundwater pumped from the Floridan Aquifer. Our treatment process consists of aeration and disinfection using injected chlorine. In addition to our primary treatment process, orthophosphosphate is added to the treated water to maintain the distribution system and improve the quality of the water.

About this Report

This report depicts our water quality results. Orange City Utilities 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 1, to December 31, 2015. Data obtained before January 1st, 2015 and presented in this report are from the most recent testing done in accordance with the laws, rules, and regulations.

About OCU

OCU is a municipally-owned utility, governed by the Orange City Council. The Orange City Council meets at City

Hall, 201 N Holly Ave, Orange City, Fla., on the second and fourth Tuesday of every month.

Additional information is available at www.OurOrangeCity.com.



Special Health Considerations

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).

Table Terms and Abbreviations

- Non-Applicable (NA): Does not apply
- Non Detect (ND): Indicates the substance was not found by laboratory analysis
- Parts per million (ppm): One part by weight of analyte to 1 million parts by weight of the water sample
- Parts per billion (ppb): One part by weight of analyte to 1 billion parts by weight of the water sample
- Picocurie per liter (pCi/L): Measure of radioactivity in water
- Action Level (AL): The concentration of a contaminant, which, if exceeded, triggers treatment or other requirements that a water system must follow
- 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 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 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 contaminant.

Service and Billing Questions: (386) 775-5444

After Hours Contact: (386) 736-5999

WATER QUALITY TEST RESULTS

The following table shows the results of the monitoring period from January 1 to December 31, 2015. The State of Florida allows for the monitoring of some contaminants less than once a year because the concentration of some of these contaminants does not change frequently. Therefore, some of the provided data, though representative, is more than a year old.

Inorganic Contaminants							
Contaminant and Unit of Measurement	Dates of Sampling	MCL Violation Y/N	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination
Arsenic (ppb)	05/2014	N	0.5	ND - 0.5	0	10	Erosion of natural deposits; runoff from orchards; runoff from glass and electronic production wastes
Barium (ppm)	05/2014	N	.032	.022 - .032	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Fluoride (ppm)	05/2014	N	0.08	0.06 - 0.08	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 0.7ppm
Nitrate (as Nitrogen) (ppm)	02/2015	N	0.63	0.026 - 0.63	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Sodium (ppm)	05/2014	N	79.8	11.9 - 79.8	NA	160	Salt water intrusion, leaching from soil

Lead and Copper (Tap Water)							
Contaminant and Unit of Measurement	Dates of Sampling	AL Exceeded Y/N	90th Percentile Result	No. of Sampling Sites Exceeding the AL	MCLG	AL (Action Level)	Likely Source of Contamination
Copper (tap water) (ppm)	07/2014	N	0.40	No sites exceeded the AL	1.3	1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead (tap water) (ppb)	07/2014	N	1.8	No sites exceeded the AL	0	15	Corrosion of household plumbing systems, erosion of natural deposits

Stage 2 Disinfectant/Disinfection By-Product							
Contaminant and Unit of Measurement	Dates of Sampling	MCL Violation Y/L	Level Detected	Range of Results	MCLG	MCL	Likely Source Of Contamination
Chlorine (ppm)	01/2015- 12/2015	N	2.4	0.3-2.4	MRDLG = 4	MRDL = 4.0	Water additive used to control microbes
Haloacetic Acids (five) (HAA5) (ppb)	1/2015—12/2015	N	25.7	7.6-45.9	NA	60	By-product of drinking water disinfection
TTHM [Total Trihalomethanes] (ppb)	1/2015—12/2015	N	72.95	51.1-87.7	NA	80	By-product of drinking water disinfection

Source Water Assessment

The Florida Department of Environmental Protection (DEP) under the Federal Safe Drinking Water Act has created the Source Water Assessment and Protection Program. The program is designed to ensure the safety of drinking water at the source. Contamination of ground water can occur from contaminants such as hazardous chemicals, stormwater runoff, waste disposal sites and underground storage tanks. In 2015 the Department of Environmental Protection updated the Source Water Assessment on our system. The assessment was updated to provide information about any potential sources of contamination in the vicinity of our wells. There is only nine (9) potential sources of contamination identified for this system with a moderate susceptibility level. The assessment results are available on the FDEP Source Water Assessment and Protection Program website at www.dep.state.fl.us/swapp or they can be obtained from Orange City Utilities at 426 S Volusia Ave, Orange City, 32763.

ORANGE CITY UTILITIES

Mandatory Information From EPA

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.

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.

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.

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 City 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>.



Did You Know About Your H₂O?

- Approximately 85 percent of U.S. residents receive their water from public water facilities. The remaining 15 percent supply their own water from private wells or other sources.
- By the time a person feels thirsty, his or her body has lost over 1 percent of its total water amount.
- You can survive longer without food than without water. Depending on a variety of factors, you can survive from 3-6 weeks without food, but only 2-10 days without water.
- The average person in the United States uses anywhere from 80-100 gallons of water per day. Flushing the toilet actually takes up the largest amount of this water.
- Of all the water on the earth, humans can only use about three tenths of a percent of this water. Such usable water is found in groundwater aquifers, rivers, and freshwater lakes.