

Safe, reliable drinking water



customers is a top priority at OUC.

We start with a pure, well-protected source: the Lower Floridan Aquifer. Located hundreds of feet below the earth's surface, the Aquifer is an underground reservoir slowly fed by naturally filtered rainwater. OUC then treats this water with ozone, the strongest disinfectant available, to ensure the highest

quality and best tasting water for our customers.

In this report, you can learn more about your drinking water, the steps we take to ensure your water's safety and the results of the more than 20,000 chemical and bacteriological water quality tests our state-certified lab performs each year.

This year, our report highlights our community's young ambassadors for water conservation by displaying their water conservation artwork. As part of the Water Color Project, local students developed this art while learning about how to save water.

Along with this art, the report includes conservation tips to help reduce your bill while protecting this valuable resource. As our area continues to grow so too will the demand for clean water. With your help, we can work together to ensure a healthy supply of water for years to come.

- Kenneth P. Ksionek **OUC General Manager & CEO**

A naturally clean water source

OUC's water comes from the Lower Floridan Aguifer, an underground reservoir that in many places is a quarter of a mile below the earth's surface. The Aguifer is fed by rainwater that is filtered through hundreds of feet of rock, undergoing a natural cleansing process. After pumping water from the Aquifer to our water plants, OUC carefully treats the water to ensure its safety and enhance its quality.

Using ozone to produce great tasting water

OUC uses ozone treatment at its eight water treatment plants to produce high quality, great tasting tap water, proudly dubbed H2OUC. Ozone is the strongest disinfectant available and reduces the amount of chlorine that must be added. The result is clean, fresh-tasting water with a sparkling appearance. Since 1995, OUC has converted five of its water plants to ozone treatment and built three new ozone plants. As required by law, we still add chlorine to our water to maintain the high quality as it flows through pipes to customer taps. Fluoride is added to promote healthy teeth. We also add sodium hydroxide

for generations to come

to prevent copper and lead from leaching into the drinking water from customers' own plumbing, the primary source of these elements in our area.

Securing our water facilities

All OUC water plants are equipped with state-of-the-art security systems that include intrusion-detection systems, alarms, cameras and security fences around the perimeter of the properties. Armed security guards and law enforcement officers regularly patrol the facilities. You can be assured that OUC remains vigilant in monitoring and protecting our water facilities. The safety of your water is our highest priority.

About OUC-The Reliable One

OUC is a municipal utility owned by the citizens of Orlando and governed by a board of commissioners. The utility provides electric and water services to more than 200,000 customers in Orlando, St. Cloud and parts of unincorporated Orange and Osceola counties. OUC is the second largest water utility in the state.



This year our Water Quality Report features artwork from local public school students who participated in the OUC-sponsored Water Color Project.

Protecting our resources through conservation

As Central Florida continues to grow, so does the demand for clean, safe water from the Floridan Aquifer. To prepare for our region's future needs, OUC has taken a leadership role in the search for innovative, reliable solutions while still providing clean, great-tasting water for our customers today.

One solution is the development of alternative water supplies to meet future drinking water demands. In addition, OUC is focusing on reclaimed water, highly treated wastewater safe for human contact, to supply anticipated landscape and lawn irrigation needs.

Through regional partnerships with the City of Orlando and other Central Florida water utilities, OUC is actively developing these alternative water sources.

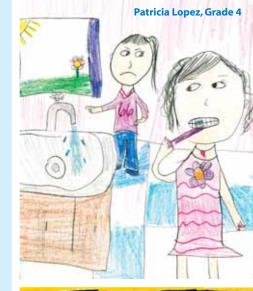
We also want to highlight the value of water conservation through customer education. There are easy steps you and your family can take in your own home or business to lower your monthly utility bill while helping to preserve our water supply.

By following these simple water conservation tips, you can save thousands of gallons of water each year:

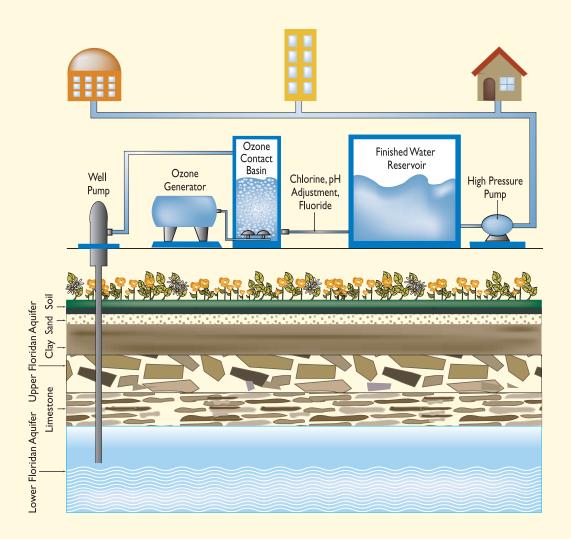
- Water your lawn only before 10 a.m. or after 4 p.m. to minimize the amount of water lost to evaporation
- Water just once a week in the cooler months and twice a week in the warmer months to maintain healthy, green grass with a strong root system
- Irrigation for oddnumbered addresses is allowed Wednesdays and Saturdays

- Irrigation for evennumbered or no addresses is allowed Thursdays and Sundays
- Water your lawn for just 30-45 minutes per session
- Repair leaking faucets and toilets and install watersaver flush valves in toilets
- Install water-saver shower heads and take shorter showers

For more ways to save water, visit www.conservefloridawater.org







Where your water comes from

Well pumps at **OUC's** water treatment plants draw water from a natural underground reservoir called the Lower **Shaina Bombasi** Floridan Grade 4 Aguifer. After being sent through ozone treatment basins. the water is treated with chlorine and fluoride. The water is then pumped to a finished water reservoir, where it waits for distribution to residential, commercial and industrial customers. Each year OUC delivers nearly 30 billion gallons of water to customers across a 200-square-mile territory.

Water quality test results

All test results well below allowable levels

As shown in the following tables, the water that OUC delivers to your tap surpasses all federal and state requirements for safe drinking water. Of the more than 135 regulated and unregulated substances for which we test annually, only several have been detected, and the detection levels were well below allowable levels. Except where otherwise noted, the following results are from tests conducted between January 1 and December 31, 2007 (the most recent available in accordance with DEP regulations.)

Primary Regulated Substances	Date of Sampling	MCL/AL Violation	Range Detected	Highest Detected	MCL	MCLG	Possible Sources
Barium (ppm)	6/06-7/06	No	0.017-0.063	0.063	2	2	Erosion of natural deposits
Fluoride (ppm)	6/06-7/06	No	0.61-0.86	0.86	4	4	Erosion of natural deposits; water additive that promotes strong teeth
Lead (ppb)	6/06-7/06	No	ND-3	3	AL(15)	0	Erosion of natural deposits
Nitrate (ppm)	6/06-7/07	No	ND	ND	10	10	Runoff from fertilizer; erosion of natural deposits
Sodium (ppm)	6/06-7/06	No	8.64-14.4	14.4	160	N/A	Salt water intrusion; leaching from soil
Radiological Contaminants	Date of Sampling	MCL/AL Violation	Range De- tected	Highest Detected	MCL	MCLG	Possible Sources
Radiological Gross Alpha (pCi/L) (2002)	10/02	No	ND-1.1	1.1	15	0	Erosion of natural deposits





TTHMs and Stage I Disinfectant/Disinfection By-Product (D/DBP) Parameters							
Disinfection By-products	Date of Sampling	MCL/AL Violation	Range Detected	Highest Detected	MCL	MCLG	Possible Sources
Bromate (ppb)	Monthly 2007	No	ND-11	11* (annual average 5)	10	0	By-product of drinking water disinfection
HAA5 (ppb) Haloacetic Acids	Quarterly 2007	No	7-37	37* (annual average 21)	60	N/A	By-product of drinking water chlorination
TTHMs (ppb) Trihalomethanes	Quarterly 2007	No	29-96	96* (annual average 52)	80	N/A	By-product of drinking water chlorination
Chlorine (ppm)	1/07-12/07	No	0.2-2.2	2.2* (annual average 1.2)	(MRDLG=4)	(MRDL=4)	Water additive used to control microbes

^{*} Compliance levels are based on running annual averages

Microbiological Contaminants

The following results are from tests conducted between January 1 and December 31, 2007 (the most recent available in accordance with DEP regulations).

Contaminant	MCLG	MCL	Level Detected	Violation	Likely Sources
Total Coliform Bacteria	0	Presence of Coliform Bacteria in more than 5% of monthly samples	OUC's highest monthly per- centage of positive samples was 1.2%, in Jan. & Mar. 2007	No	Naturally present in the environment

During 2007, a minimum of 248 water samples per month was collected throughout OUC's water distribution system and analyzed for Total Coliform Bacteria.

For a complete list of abbreviation and definitions used on this and following pages, please see page 8.

Results of copper and lead sampling at customer taps

The following results are from tests conducted between June 1 and September 30, 2005 (the most recent available in accordance with DEP regulations). The tests confirm that the levels of lead and copper in tap water sampled in homes were below the Action Level (AL) except where noted.

Contaminant and Unit of Measure	MCL Violation	Level Detected	AL	MCLG	Likely Source of Contamination
Copper (tap water) (ppm)	No	0.77 (90th percentile)*	AL=1.3 (One site exceeded AL)	1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead (tap water) (ppb)	No	2 (90th percentile)*	AL=15 (One site exceeded AL)	0 (Zero ppb)	Corrosion of household plumbing systems; erosion of natural deposits

Jones High School

More about lead and copper

The primary source of lead and copper in tap water is customers' plumbing. These elements can possibly leach into the water from a building's plumbing through corrosion if the water has been standing in the pipes for several hours. To prevent corrosion from occurring, OUC has effectively implemented system-wide corrosion-control treatment. At the treatment plants, sodium hydroxide is added to the water to increase

the water's pH and thus prevent corrosion of water pipes.

Buildings at risk for lead or copper in the water are those that have lead services or that have lead solder in copper pipes.

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. OUC 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

^{*} In 90 percent of the homes sampled, the level of copper was 0.77 ppm or less and the level of lead was 2 ppb or less.

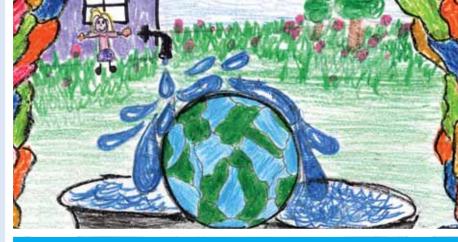
have your water tested. Information on lead in drinking water, testing methods and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline at 1.800.426.4791 or online at www.epa.gov/safewater/lead.

Constantly Testing Your Water

After an on-site assessment by the Florida Department of Health and successful completion of the latest round of proficiency testing, chemists at OUC's state-of-the-art Water Quality Laboratory perform more than 20,000 chemical and bacteriological tests annually to ensure the quality and safety of OUC's drinking water. Customers can continue to enjoy OUC's award-winning water with confidence, knowing that the water is tested regularly and surpasses the highest quality standards. For more information about OUC's drinking water, call our Water Quality Laboratory at 407.244.8779 to talk to a water quality professional. Information also is available online at www.ouc.com.

Source Water Assessment

A source water assessment has been completed and the report is available online to the public at **www.dep.state.fl.us/swapp.**



Rayssa Guedes, Grade 4

Keys to abbreviations

MCL: Maximum Contaminant Level.

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.

MCLG: Maximum Contaminant Level Goal.

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.

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

ppm: Parts per million.
One part per million corresponds to 1 cent in \$10.000.

ppb: Parts per billion.
One part per billion
corresponds to 1 cent in
\$10 million.

pCi/L: *Picocuries per liter.* A measure of the radioactivity in water.

N/A: Not applicable.

ND: Not detected. Indicates that the substance was not found by laboratory analysis.

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

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.

EPA statement about water resources, contaminants

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:

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

- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production and also can come from gas stations, urban stormwater runoff and septic systems.
- 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 that limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water, which must provide the same protection for public health.

All 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 U.S. Environmental Protection Agency's Safe Drinking Water Hotline at 1.800.426.4791.





Orlando Utilities Commission 500 South Orange Avenue Orlando, Florida 32801

www.ouc.com



The artwork featured in this year's report was created by local public school students as part of a water conservation-themed art partnership between OUC and Orange County Utilities Water Division. **The Water Color Project** featured paintings and drawings by elementary school students and rainwater collection barrels painted by high school art classes. The artwork was highlighted in a 2008 calendar designed to encourage water conservation in our community. For more information on how your child or class can participate, visit **www.ouc.com/watercolor**.

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