

WATER

QUALITY REPORT



OVER 25 YEARS: LEAD AND COPPER MONITORING

GRU routinely monitors your drinking water in accordance with federal and state laws. While lead and copper are not in our source water, they can enter tap water through old, corroding household plumbing materials. We tested a selection of older homes with copper and lead plumbing components, and results for every home met lead and copper drinking water standards, continuing GRU's 25-year history of lead testing with great results.

CHAMPION OF WATER: RICK DAVIS

Did you know Rick Davis turned the first water valve at the Murphree Water Treatment Plant in 1976? Rick has focused on water quality, security, and safety at GRU for over 47 years! **Thank you for your outstanding service, Rick.**



IMPROVEMENTS AT MURPHREE

GRU's Murphree Water Treatment Plant will receive an \$11 million electric system upgrade. These improvements will provide more reliable power to our equipment and enhance our ability to supply great tasting, high-quality drinking water.



 **WE ARE PLEASED TO REPORT THAT OUR DRINKING WATER CONTINUES TO MEET ALL FEDERAL AND STATE REQUIREMENTS!**

GRU routinely monitors for contaminants in your drinking water in accordance with federal and state laws, rules and regulations.

WATER IN THE COMMUNITY

Volunteers drink high-quality GRU water from the Florida Section of the American Water Works Association's Quench Buggy at **The Annual Great Invader Raider Rally**, a one-day, volunteer-powered work party removing trash and invasive plant species growing within our city parks.



GRU's **Annual "Drop Savers" Poster Contest** helps students in grades K-12 understand the importance of water conservation. GRU believes the best opportunity to conserve water is through education and awareness programs beginning with our community's youth.

THE TREATMENT PROCESS

GRU treats water pumped from the Floridan aquifer. The treatment process includes oxidation, lime softening, recarbonation, filtration, fluoridation and disinfection. This water quality report is submitted to customers as required by the United States Environmental Protection Agency and the Florida Department of Environmental Protection in accordance with the Safe Drinking Water Act.

Except where indicated otherwise, this report is based on the results of GRU's monitoring for the period of January 1 through December 31, 2016. Data obtained before January 1, 2016, and presented in this report, are from the most recent testing done in accordance with the laws, rules and regulations. The state allows GRU to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Therefore, some data, though representative, may be more than one year old.

GRU is a municipally-owned utility, governed by the Gainesville City Commission. The commission meets at City Hall, 200 East University Avenue, Gainesville, FL, on the first and third Thursday of every month.

SOURCE WATER ASSESSMENT

The Florida Department of Environmental Protection performed Source Water Assessments on GRU's system in 2015. The assessments were conducted to provide information about any potential sources of contamination within a five-year ground water travel time around each well. No potential sources of contamination were identified. The assessment results are available on the FDEP Source Water Assessment and Protection Program Web site at www.dep.state.fl.us/swapp.

Additional information is available at www.gru.com.

Service & Billing Questions: 352-334-3434
Water/Wastewater Repairs: 352-334-2711
Water Testing Requests: 352-393-6501

WATER QUALITY TEST RESULTS

Listed below are nine parameters detected in GRU's water during the reporting period. All are below maximum contaminant levels allowed. Not listed are many others we test for, but were not detected.

A list of measured parameters is listed in Appendix A. **As you can see by the tables, our system had no violations.** We're proud that your drinking water meets or exceeds all Federal and State requirements!

MICROBIOLOGICAL CONTAMINANTS

Contaminant and Unit of Measurement	Dates of Sampling (Mo/Yr)	MCL Violation Y/N	Highest Monthly Percentage	MCLG	MCL	Likely Source of Contamination
Total Coliform Bacteria (positive samples)	1/16-12/16	N	0.78	0	Presence of coliform bacteria in > 5% of monthly samples	Naturally present in the environment

INORGANIC CONTAMINANTS

Contaminant and Unit of Measurement	Dates of Sampling (Mo/Yr)	MCL Violation Y/N	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination
Barium (ppm)	6/14	N	0.0091		2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Fluoride (ppm)	1/16–12/16	N	0.65	0.23–0.81	4	4.0	Water additive which promotes strong teeth when at the optimum level of 0.7 ppm
Sodium (ppm)	6/14	N	11.1		N/A	160	Salt water intrusion, leaching from soil

DISINFECTANTS AND DISINFECTION BY-PRODUCTS

For chlorine, the level detected is the highest running annual average (RAA), computed quarterly, of monthly averages of all samples collected. The range of results is the range of results of all the individual samples collected during the past year.

For haloacetic acids or TTHM, the level detected is the highest LRAA, computed quarterly, of quarterly averages of all samples collected from a location 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.

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)	1/16–12/16	N	0.71	0.44 – 1.09	MRDLG = 4	MRDL = 4.0	Water additive used to control microbes
Haloacetic Acids (five) (HAA5) (ppb)	1/16–12/16	N	10.41	2.90 – 14.10	N/A	MCL = 60	By-product of drinking water disinfection
TTHM [Total trihalomethanes] (ppb)	1/16–12/16	N	54.68	30.90 – 77.70	N/A	MCL = 80	By-product of drinking water disinfection

LEAD AND COPPER (TAP WATER)

Contaminant and Unit of Measurement	Dates of Sampling (Mo/Yr)	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)	6/16–8/16	N	0.016	0	1.3	1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead (tap water) (ppb)	6/16–8/16	N	1.40	0	0	15	Corrosion of household plumbing systems; erosion of natural deposits

Due to administrative oversight, GRU did not distribute last year's report to customers by July 1st as required under the Safe Drinking Water Act. This violation has no impact on the quality of the water our customers received, and it posed no risk to public health. We have changed the report management process to ensure that all reporting requirements are met in the future.

GLOSSARY

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

Locational Running Annual Average (LRAA): The arithmetic average of analytic results for samples taken at a specific monitoring location during the previous four calendar quarters.

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.

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.

No Detection (ND): Indicates the substance was not found by laboratory analysis.

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.

Parts per billion (ppb) or Micrograms per liter (µg/l): One part by weight of analyte to 1 billion parts by weight of the water sample.

ADDITIONAL INFORMATION ABOUT YOUR WATER

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 wastewater treatment plants, septic systems, agricultural livestock operations, and wildlife.
- Inorganic contaminants, such as salts and metals, which can occur naturally 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 can also come from gas stations, urban stormwater runoff, and septic systems.
- Radioactive contaminants, which can be naturally occurring or the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, the Environmental Protection Agency prescribes regulations that 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 EPA's Safe Drinking Water Hotline at **800-426-4791**.

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 or at www.epa.gov/safewater.

APPENDIX A

None of the following potential contaminants were detected in your water supply: Fecal coliform and E. coli, Beta/photon emitters, Alpha emitters, Radium 226+228 or combined radium, Uranium, Antimony, Arsenic, Asbestos, Beryllium, Cadmium, Chromium, Cyanide, Lead (Leaving our treatment plant), Mercury, Nickel, Selenium, Thallium, 2,4-D, 2,4,5-TP (Silvex), Alachlor, Atrazine, Benzo(a)pyrene (PAH), Carbofuran, Chlordane, Dalapon, Di (2-ethylhexyl) adipate, Di (2-ethylhexyl) phthalate, Dibromochloropropane (DBCP), Dinoseb, Dioxin [2,3,7,8-TCDD], Diquat, Endothall, Endrin, Ethylene dibromide, Glyphosate, Heptachlor, Heptachlor epoxide, Hexachlorobenzene, Hexachlorocyclopentadiene, Lindane, Methoxychlor, Oxamyl [Vydate], PCBs [Polychlorinated biphenyls], Pentachlorophenol, Picloram, Simazine, Toxaphene, Benzene, Carbon Tetrachloride, Chlorobenzene, o-Dichlorobenzene, p-Dichlorobenzene, 1,2-Dichloroethane, 1,1-Dichloroethylene, cis-1,2-Dichloroethylene, trans-1,2-Dichloroethylene, Dichloromethane, 1,2-Dichloropropane, Ethylbenzene, Styrene, Tetrachloroethylene, 1,2,4-Trichlorobenzene, 1,1,1-Trichloroethane, 1,1,2-Trichloroethane, Trichloroethylene, Toluene, Vinyl Chloride, Xylenes, Chlorite, Total organic carbon, Aluminum, Color, Iron, Manganese, Odor, Silver, Zinc, Dimethoate, Terbufos sulfone, BDE-47, BDE-99, 2,4,5-HBB, BDE-153, BDE-100, 1,3-Dinitrobenzene, TNT, RDX, Acetochlor, Metolachlor, Acetochlor ESA, Acetochlor OA, Alachlor ESA, Alachlor OA, Metolachlor ESA, Metolachlor OA, NDBA, NDEA, NDMA, NDPA, NMEA, NPYR

UNREGULATED CONTAMINANTS (UC)

Chemical	Dates of Sampling (Mo/Yr)	Level Detected	Range	Likely Source of Contamination
Chlorate (ppb)	4/13, 10/13	12.35	0.0 – 29.0	Unknown
Chromium (ppb)	4/13, 10/13	0.215	ND – 0.32	Unknown
Chromium-6 (ppb)	4/13, 10/13	0.1425	0.12 – 0.17	Unknown
Strontium (ppb)	4/13, 10/13	495.75	420 - 554	Unknown
Vanadium (ppb)	4/13, 10/13	0.395	0.31 – 0.48	Unknown

GRU monitored for Unregulated Contaminants (UCs) as part of a study to help the U.S. Environmental Protection Agency (EPA) determine the occurrence in drinking water of UCs and whether or not these contaminants need to be regulated. At present, no health standards (for example, maximum contaminant levels) have been established for UCs. However, GRU is required to publish the detected analytical results of our UC monitoring in our annual water quality report. If you would like more information on the EPA's Unregulated Contaminants Monitoring Rule, please call the Safe Drinking Water Hotline at 800-426-4791.

Unregulated contaminants not detected at any of the sampling locations:

Perfluorobutanesulfonic acid, Perfluoroheptanoic acid, Perfluorohexanesulfonic acid, Perfluorononanoic acid (PFOA), Perfluorooctanesulfonic acid (PFOS), 4-Andronstene-3,17-dione, Equiline, 17β-Estradiol, Estrone, 17α-Ethynylestradiol, 16α-Hydroxyestradiol (Estriol), Testosterone, Cobalt, 1,4-Dioxane (p-Dioxane), Bromochloromethane, Bromomethane, 1,3-Butadiene, Chlorodifluoromethane, Chloromethane, 1,2,3-Trichloropropane, 1,1-Dichloroethane