

City of Sarasota Utilities Department 2018 WATER QUALITY REPORT

The City of Sarasota wants you to know that your drinking water meets all health and safety standards. Our constant goal is to provide you with a safe and dependable supply of drinking water. Details may be found in this report, which is an annual information service required by federal and state regulations.

Your drinking water comes from 51 deep-water wells tapping the Upper Floridan aquifer. Pumping locations include the Verna Wellfield, which is 15 miles east of the City of Sarasota; the Downtown Wellfield in the northwest area of the City of Sarasota and Bobby Jones Wellfield at the city owned Bobby Jones golf course. The raw groundwater feeds two separate treatment processes- reverse osmosis and ion exchange softening. The water is then chlorinated for disinfection purposes, degasified, and the pH is adjusted for corrosion control. These resources meet all the City of Sarasota's water needs and will for years to come.

ORIGINS OF CONTAMINANTS FOUND IN ALL DRINKING WATERS

The sources of drinking water (both tap 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 the 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 results 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 station, urban stormwater runoff and septic systems.
- Radioactive contaminants, which can be naturally occurring or be the result of an oil and gas production and mining activities.

To ensure that tap water is safe to drink, the EPA prescribes regulations, which limit the number of certain contaminants in water provided by the 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.

The public is encouraged to participate in decisions that may affect your water quality. Regular Commission Meetings are scheduled for the first and third Monday of each month, or Tuesday if Monday is a holiday. The meeting begins at 1:30 pm, recesses at 4:30 pm, and reconvenes at 6:00 pm. Public input is welcomed. Regularly schedule Commission meetings are broadcast live on the City's website or are available on Comcast channel 19 and Verizon FiOS channel 32, if you have any questions or concerns about Sarasota's drinking water, please contact Peter Perez at 941-263-6216 between 7 a.m. and 3:30 p.m. on weekdays.

DRINKING WATER REPORT FOR 2018

The City of Sarasota routinely monitors for contaminants in your drinking water according to federal and state regulations. Except where indicated otherwise, this report is based on the results of our monitoring for the period of January 1 to December 31, 2018. Data obtained before January 1, 2018 and presented in this report is from the most recent testing done in accordance with the laws, rules, and regulations. The concentration of these contaminants does not vary significantly from year to year.

In 2018, the Florida Department of Environmental Protection (FDEP) 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. The assessment results are available on the FDEP Source Water Assessment and Protection Program website www.dep.state.fl.us/swapp.

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 material and components associated with service lines and home plumbing.

The City of Sarasota 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 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>

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STAGE 1 AND STAGE 2 DISINFECTANTS AND DISINFECTION BY-PRODUCTS

Disinfectant or Contaminant And unit of measurement	Dates of Sampling (mo./yr.)	MCL Violation Y/N	Level Detected	Range of Results	MRDLG	MCL OR MRDL	<u>Likely source Contamination</u>
Chlorine (ppm)	1/18-12/18	NO	1.3	0.7-2.2	MRDLG=4	MRDL=4	Water additive used to control microbes
Haloacetic Acids [HAA5] (ppb)	1/18-12/18	NO	10.9	6.4-14.5	NA	MCL=60	By-product of drinking water disinfection
Total Trihalomethanes [TTHM] (ppb)	1/18-12/18	NO	53.6	31.9-58.7	NA	MCL=8	By-product of drinking water disinfection

For Chlorine, Haloacetic Acids or TTHM, the level detected is the highest average of the quarterly averages of all sampling points, Range of results is the range of individual sample results (lowest to highest) for all monitoring locations and for all sampling periods.

INORGANIC CONTAMINANTS

Contaminant and Unit of Measurement	Dates of Sampling (mo./yr.)	MCL Violation Y/N	Level Detected	Range of Results	MCLG	MCL	<u>Likely source Contamination</u>
Fluoride (ppm)	5/17	NO	0.58	0.58	4	4	Erosion of natural deposits; promotes strong teeth when at the optimum level of 0.7ppm
Sodium (ppm)	5/17	NO	98.6	98.6	NA	160	Saltwater intrusion, leaching from soil
Nitrate (ppm)	2/18	NO	0.065	0.065	10	10	Erosion of natural deposits

Results in the Level Detected column for inorganic contaminants are the highest detected level at any sampling point

LEAD AND COPPER (TAP WATER)

Contaminant and Unit of Measurement	Dates of sampling (mo./yr.)	AL Violation Y/N	90 TH percentile results	No. of sampling sites exceeding AL	AL	<u>Likely source Contamination</u>
Copper (Tap water) (ppm)	6/16	NO	0.07	0	1.3	Corrosion of Household plumbing systems; erosion of natural deposits
Lead (Tap water) (ppm)	6/16	NO	1.3	0	15	Corrosion of household plumbing systems; erosion of natural deposits

Samples for copper and lead were taken in customer's home after sitting in contact with copper pipes with tin-lead solder for 6-8 hours

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/Center for Disease Control (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 (1-800-426-4791)

Si tiene alguna pregunta concerniente a este reporte o a la calidad del agua por favor llamenos Peter Perez 941-263-6216. Asistencia en español esta disponible Lunes a Viernes de 7 a.m. a 3:30 p.m. If you have any questions regarding this report or your drinking water, please call 941-263-6216. Assistance in Spanish is available Monday through Friday 7a.m. to 3:30pm.

Definitions:

AL (ACTION LEVEL)- the concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.

HAA5s (Haloacetic Acids)- a group of chlorinated chemicals that include Monochloroacetic Acid, Dichloroacetic Acid, Trichloroacetic Acid, Monobromoacetic Acid and Dibromoacetic Acid.

MCLG (MAXIMUM CONTAMINANT LEVEL GOAL)- the level of contaminant in drinking water below which there is no known or expected risk to health, MCLG's allow for a margin of safety.

MCL (MAXIMUM CONTAMINANT LEVEL)- the highest level of a contaminant that is allowed in drinking water. MCL's are set as close to the MCLG's as feasible using the best available treatment technology.

MRDL (MAXIMUM RESIDUAL DISINFECTION LEVEL)- 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.

MRDLG (MAXIMUM RESIDUAL DISINFECTION LEVEL GOAL)- the level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLG's do not reflect the benefits of the use of disinfectants to control microbial contaminant.

NA- NOT APPLICABLE

ppb (parts per billion) or micrograms per liter (Qg/L)- one part by weight of analyte to 1 billion parts by weight of the water sample. A part per billion is like one minute in 2000 years or a single penny in \$10 million.

ppm (parts per million) or milligrams per liter (mg/l)- one part by weight of analyte to 1 million parts by weight of the water sample. A part per million is like one minute in two years or a single penny in \$10,000

TTHMs (Total Trihalomethanes)- a group of chlorinated organic chemicals that include Chloroform, Bromoform, Bromodichloromethane and Dibromochloromethane.

90th percentile- the analytical result that is greater than or equal to 90% of the results.

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