FPUA
COMMUNITY PROUD

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Water Testing Performed in 2020

ANNUAL Water Quality REPORT

PARA LOS CLIENTES HISPANOS

Este es un reporte importante sobre la calidad de su agua. Si usted no cuenta con alguien que pueda traducirle este reporte, llame el Departmento de Servicio al Cliente de Fort Pierce Utilities Authority al (772) 466-1600 y con mucho gusto le asistiremos.

QUALITY FIRST

Fort Pierce Utilities Authority (FPUA) is committed to providing safe, high quality water to your tap every day. We are vigilant in meeting the challenges of new regulations, source water protection, water conservation, community outreach, and education. Thank you for allowing us to continue providing you and your family with quality drinking water. This report is furnished to you pursuant to the EPA Safe Drinking Water Act (SDWA). Since 1999, all community water systems are required to provide customers with an annual water quality report.

We are proud to report the water provided by FPUA meets the State of Florida and the United States Environmental Protection Agency's (EPA) regulations. FPUA tests for a variety of regulated and unregulated compounds to determine if your drinking water meets the SDWA requirements. Review of the tables contained in this report will show your drinking water is of excellent quality. The data presented is from 2020 or the most recent testing done in accordance with regulations for sampling required less frequently.

Please share with us your thoughts about the information in this report. Well-informed customers are our best allies. Additionally, please note we encourage community participation. You are welcome to attend our Board meetings held on the first and third Tuesday of each month at 4:00 p.m. at 100 N. U.S. 1 (City Hall), Fort Pierce, Florida. Contact FPUA by calling (772)-466-1600.

OUR WATER SOURCE

FPUA obtains water from two groundwater sources, the Surficial Aquifer and the Floridan Aquifer. Water is pumped from these aquifers to FPUA's Henry Gahn Water Treatment Plant. Water pumped from the Surficial Aquifer, approximately 100 feet below the surface, is treated by conventional lime softening, aeration and sand filtration. Water pumped from the Floridan Aquifer, approximately 1000 feet below the surface, is treated by reverse osmosis. After treatment, the water is chlorinated for disinfection, fluoride is added to aid in dental health, and the two waters are blended before storage.

In 2020, the Florida Department of Environmental Protection (FDEP) performed a Source Water Assessment on our system to provide information about any potential sources of contamination in the vicinity of our wells. There are 36 potential sources of contamination identified for this system with a low to 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 by calling FPUA's Customer Service Department at (772) 466-1600. Additionally, FPUA has built treatment systems as a result of those potential sources of contamination.

WATER QUALITY DATA TABLE

In order to ensure tap water is safe to drink, EPA prescribes regulations which limit the amount of contaminants in water provided by public water systems. The table below lists all of the drinking water contaminants we detected during the calendar year of this report. Although many more contaminants were tested, only those substances listed below were found in your water. All sources of drinking water contain some naturally occurring contaminants. At low levels, these substances are generally not harmful in our drinking water. Removing all contaminants would be extremely expensive, and in most cases, would not provide increased protection of public health. A few naturally occurring minerals may actually improve the taste of drinking water and have nutritional value at low levels. Unless otherwise noted, the data presented in this table is from testing done in the calendar year of the report. The EPA or the State requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not vary significantly from year to year, or the system is not considered vulnerable to this type of contamination. As such, some of our data, though representative, may be more than one year old. In this table you will find terms and abbreviations that might not be familiar to you. To help you better understand these terms, we have provided the definitions to the right of the table.

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)	04/2020	N	0.0026	0.0025 - 0.0026	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits.
Fluoride (ppm)	01/2020 - 12/2020	N	0.54	0.14 - 0.83	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories.
Nitrate (ppm)	04/2020	N	0.044	0.043 - 0.044	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits.
Sodium (ppm)	04/2020	N	50.4	50.1 - 50.4	N/A	160	Salt water intrusion; leaching from soil.

Results for Inorganics in the Level Detected column are the highest average detected at any of the sampling points or the highest detected level at any sampling point, depending on the sampling frequency.

Stage 1 Disinfectants and Disinfection By-Products

Contaminant and Unit Of Measurement	Dates of Sampling (mo/yr)	MCL Violation Y/N	Level Detected	Range of Results	MRDLG	MRDL	Likely Source of Contamination
Chloramines (ppm)	1/2020 - 12/2020	N	3.5	0.6 - 4.5	4	4.0	Water additive used to control microbes.

Results for Chloramines in the Level Detected column is the highest running annual average (RAA), computed quarterly, of the 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.

Stage 2 Disinfectants and Disinfection By-Products

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
Total Trihalomethanes (TTHM) (ppb)	1/2020 - 12/2020	N	37.6	24.6 - 39.8	N/A	80	By-product of drinking water disinfection.
Haloacetic Acids Five (HAA5) (ppb)	1/2020 - 12/2020	N	28.9	17.4 - 26.2	N/A	60	By-product of drinking water disinfection.

Results for Total Trihalomethanes (TTHM) and Haloacetic Acids (HAA5) in the Level Detected column is the highest locational running annual average (LRAA), computed quarterly of all samples collected. The range of results is the range of individual sample results during 2020 for all compliance monitoring locations.

Lead and Copper

Contaminant and Unit Of Measurement	Dates of Sampling (mo/yr)	AL Exceeded Y/N	90th Percentile Result	Number of sampling sites exceeding AL	MCLG	AL (Action Level)	Likely Source of Contamination
Copper (tap water) (ppm)	07/2020 - 08/2020	N	0.097	0	1.3	1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives.
Lead (tap water) (ppb)	07/2020 - 08/2020	N	0.7	0	0	15	Corrosion of household plumbing systems; erosion of natural deposits.

Unregulated Contaminants (UCMR4)

Contaminant and Unit Of Measurement	Dates of Sampling (mo/yr)	Level Detected (average)	Range of Results	Likely Source of Contamination
Haloacetic Acids Five (HAA5) (ppb)	4/2/2020	17.98	17.50 - 18.60	By-product of drinking water disinfection.
Haloacetic Acids Six Bromide (HAA6Br) (ppb)	4/2/2020	8.25	6.52 - 10.75	By-product of drinking water disinfection.
Haloacetic Acids Nine (HAA9) (ppb)	4/2/2020	24.78	22.92 - 26.35	By-product of drinking water disinfection.
Manganese (ppb)	4/2/2020	0.295	0.27 - 0.32	Natural occurance from soil leaching.

EPA Fourth Unregulated Contaminant Monitoring Rule: The 1996 Safe Drinking Water Act (SDWA) amendments require that once every five years EPA issue a new list of no more than 30 unregulated contaminants to be monitored by public water systems. The fourth Unregulated Contaminant Monitoring Rule (UCMR4) was published in the Federal Register on December 20, 2016. UCMR4 requires monitoring for 30 chemical contaminants over the course of one year between 2018 and 2020. This monitoring provides a basis for future regulatory actions to protect public health. At present, no health standards (for example, maximum contaminant levels) have been established for unregulated contaminants. However, we are required to publish the analytical results of our unregulated contaminant monitoring in our annual water quality report. If you would like more information on the EPA's Unregulated Contaminant Monitoring Rule, please call the Safe Drinking Water Hotline at (800) 426-4791.

TERMS, ABBREVIATIONS AND DEFINITIONS

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

Maximum Contaminant Level (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 (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 (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 (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.

N/A:
Not applicable.

Running Annual Average (RAA):
The average of all samples collected from all sample locations within a calendar year.

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.

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.

ADDITIONAL INFORMATION FOR LEAD

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. Fort Pierce Utilities Authority 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

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:

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 (800) 426-4791.

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IMPORTANT HEALTH INFORMATION

Some people may be more susceptible 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. The EPA/CDC (Centers for Disease Control and Prevention) guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Drinking Water Hotline at (800) 426-4791 or http://water.epa.gov/drink/hotline.