



# Water Quality Report

2023

City of Port St. Lucie  
Utility Systems Department

1001 SE Prineville St., Port St. Lucie, FL 34983

[utility.cityofpsl.com](http://utility.cityofpsl.com)

772-873-6400



# A Message from the Director

I am pleased to provide you an opportunity to review our Consumer Confidence Report (CCR), which offers details about the quality of the potable water distributed by the City of Port St. Lucie's Utility Systems Department (Utility). This report is published in compliance with Federal and State legislation and, for the most part, reflects results of the sampling and testing conducted between January 1, 2023 and December 31, 2023.

Port St. Lucie has become one of the most desirable places to live in the United States. Its affordability and economic development are attracting new residents from throughout the state and across the country. The projected population boom and increase in Utility Systems customers has fast-tracked the design of a fourth water treatment facility located near Rangeline Road in the westernmost part of the City, where much development is occurring.

This new reverse osmosis water treatment facility, estimated to be completed by early 2030, will have the capacity to produce up to 10 million gallons of water per day, which will increase our treated water capacity to 51.65 million gallons per day, which is more than enough to meet the needs of our future residents. The source water for this facility will come from multiple Floridan aquifer wells, the largest freshwater resource in Florida. The St. Lucie River/C-23 Water Quality Project, located off of Rangeline Rd., will eventually provide additional alternative water for a second treatment plant in the future at this same site.

Being a Port St. Lucie Utility Systems customer means not having to worry about the quality of your drinking water. In addition to meeting treatment standards and adhering to testing requirements, we also actively monitor any proposed changes from regulatory agencies to prepare ourselves if the changes are adopted. With the population growth and new facility, our nearly 1,300-mile water distribution system will benefit, as more water will flow through our system and allow us to constantly provide fresh water to your tap.

Be assured that we aren't just planning construction of future water treatment facilities, we're also striving to make our water even better and looking for new ways to do so. Millions of dollars are currently being invested into maintaining and upgrading our existing facilities and field infrastructure with innovative, emerging and state-of-the-art technologies in order to provide you the most efficient and cost effective service.

For nearly 30 years, we have employed industry experts who work 24 hours a day to provide clean and great-tasting drinking water to our now more than 94,000 customers, and that number is growing daily. However, the most important message in this document is that the drinking water provided by the Port St. Lucie Utility Systems Department continues to meet all Federal and State requirements!

If you need more information about this report or our services, please call 772-873-6400.

Kevin Matyjaszek

Director of Utility Systems

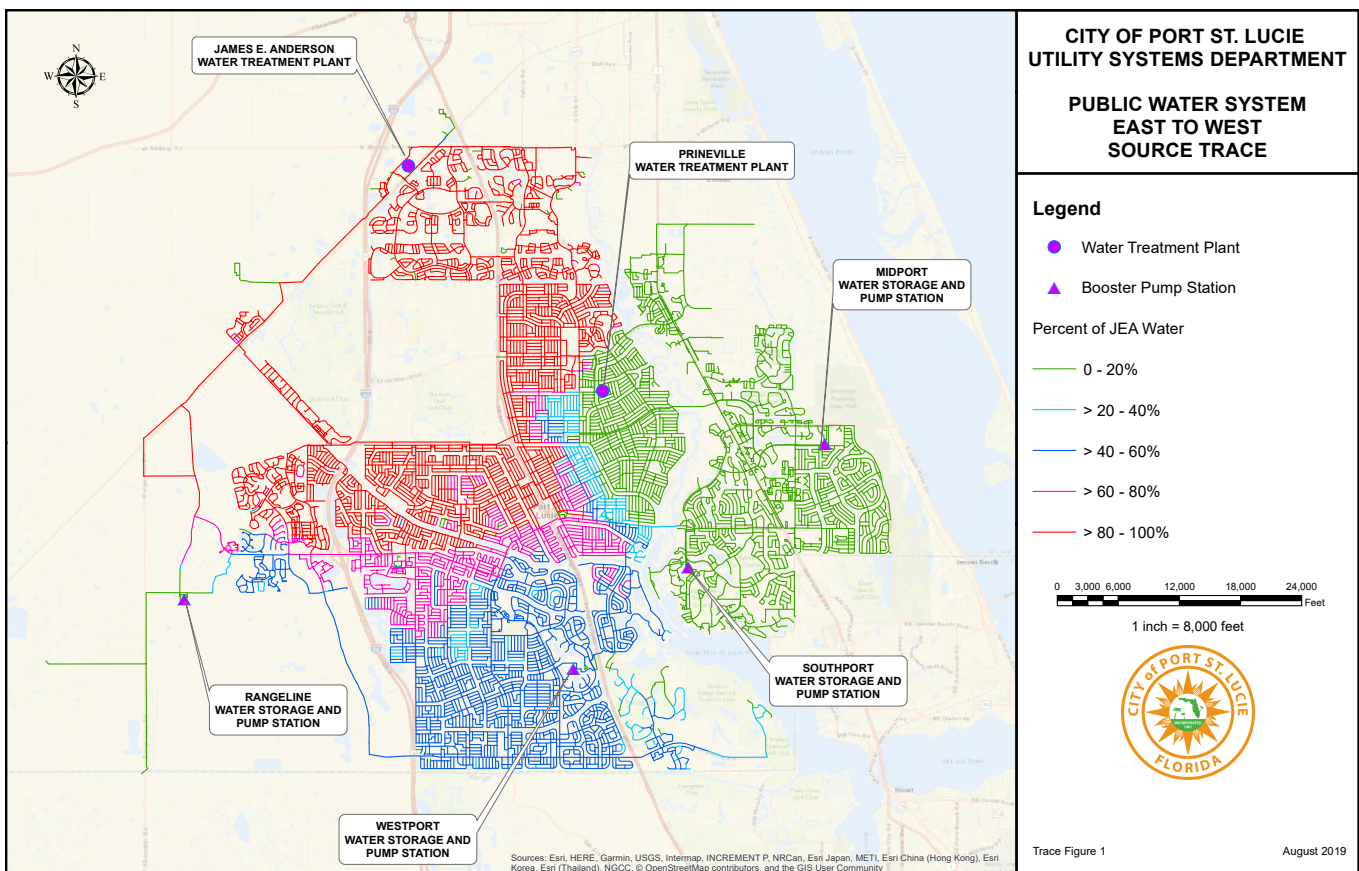
# Where does your water come from?

The City’s water supply comes from two independent sources, the shallow aquifer and the deeper Floridan aquifer. Raw water from the shallow aquifer, which is about 100 feet deep, is treated by an 8.0 million gallon per day lime softening facility. This process is a combination of pH adjustments with lime, coagulation with a polymer, multi-media filtration, and disinfection with chloramines. The deeper Floridan aquifer, which is about 1350 feet deep, is treated by an 11.15 million gallon per day and a 22.5 million gallon per day reverse osmosis facilities. Both finished waters are blended, pH adjusted, disinfected, and fluoride is added.

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 the source water include:

1. Microbiological contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
2. 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.
3. Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.
4. 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.
5. Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities.



# How safe is our water?

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 U.S. 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.

In addition, 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. The City of Port St. Lucie Utility Systems Department 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 two 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>.

Some people may be more vulnerable to contaminants in drinking water than the general population.

Immuno-compromised 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. U.S. Environmental Protection Agency/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 at 1-800-426-4791.

In 2023 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. There are eight potential sources of contamination identified for this system with a low susceptibility level. It should be noted that the potential sources of contamination identified by this assessment are just that: potential sources. All of Port St. Lucie's water supply facilities are regulated, and operate under stringent construction and maintenance standards to protect both human health and the environment. The assessment results are available on the DEP Source Water Assessment and Protection Program (SWAPP) website at <https://prodapps.dep.state.fl.us/swapp/>.

## Cross Connection Control: Protecting our Water

There are over 94,000 connections to our water distribution system. When connections are properly installed and maintained, the risks of contamination are very minimal. However, unapproved and improper piping changes or connections can adversely affect not only the availability, but also the quality of the water. A cross connection may let polluted water or even chemicals mingle into the water supply system when not properly protected. This not only compromises the water quality but can also affect your health.

So, what can you do? Do not make or allow improper connections at your home. An unprotected garden hose lying in a puddle is a cross connection. The unprotected lawn sprinkler system is also a cross connection. In addition, residents in neighborhoods utilizing reclaimed water for irrigation must take precautions to prevent cross connections. Reclaimed water is not suitable for potable use and must not be connected to household plumbing. When the cross connection is allowed to exist at your home it will affect you and your family first. If you would like to learn more about helping to protect the quality of drinking water, call us at 1-772-873-6400 for further information about ways you can help.

# Water Conservation Tips

Conserving water not only helps you save money, but it also helps preserve our water resources for the use of generations to come. The power to conserve water continues to rest with each of us, young and old alike, so please share the following tips with your family members, friends, and neighbors.

- Avoid unnecessary toilet flushes. Dispose of tissues, insects, and other waste in the trash.
- Take a shower instead of a bath. You could save up to 25 gallons when taking a 10-min. shower with a low-flow shower head.
- Become a leak detective! Regularly check faucets, toilets, hose bibs and sprinklers for leaks and make necessary repairs. A slow drip can waste 20 or more gallons of water per day.
- Turn off the water while shaving, brushing your teeth, or washing your hands
- Soak dirty pots and pans instead of letting the water run while you scrape them.
- Get the most for your money and only run your automatic dishwasher when it's full. Dishwashers use about 15 gallons of water during every cycle, regardless of how many dishes and glasses are loaded into it.
- Use mulch in plant beds to retain moisture, reduce evaporation, and discourage weeds that compete with plants for water.
- Always follow the Water Use Restrictions imposed by South Florida Water Management District for landscape irrigation days and times.



Additional water conservation tips and information about the importance of water conservation can be found at the following sites: [www.cityofpsl.com](http://www.cityofpsl.com), <http://my.sfwmd.gov>, or <http://www.epa.gov/watersense>.

## Definitions

### 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.

### Action Level (AL):

The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.

### Maximum residual disinfectant level (MRDL):

The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of 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.

### “ND”

Not Detected and indicates that the substance was not found by laboratory analysis.

### Locational Running Annual Average (LRAA):

The average of sample analytical results for samples taken at a particular monitoring location during the previous four calendar quarters.

### Parts per billion (ppb) or Micrograms per liter (ug/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.

### Picocurie per liter (pCi/L):

Measure of the radioactivity in water.

### Lead and Copper Results

These results are for the entire distribution system

Contaminant and Unit of Measurement	Dates of Sampling (mo./yr.)	AL Violation Y/N	90th Percentile Result	# of sites Exceeding the AL	MCLG	AL (action level)	Likely Source of Contamination
Copper (tap water) (ppm)	6-8/2023	N	0.11	0	1.3	1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead (tap water) (ppb)	6-8/2023	N	4.6	1	0	15	Corrosion of household plumbing systems; erosion of natural deposits;

### Disinfectants and Disinfection By-Products

These results are for the entire distribution system

Contaminant and Unit of Measurement	Dates of Sampling (mo./yr.)	MCL Violation Y/N	Level Detected*	Range of Results	MCLG or MRDLG	MCL or MRDL	Likely Source of Contamination
Chloramines (ppm)	1-12/2023	N	3.11	2.7-3.6	MRDLG = 4	MRDL = 4.0	Water additive used to control microbes
Haloacetic Acids (HAA5) (ppb)	2,5,8,11 2023	N	24.3 (highest LRAA at site 5) @ 3049 SE Darien Road	1.4-29.3	N/A	MCL = 60	By-product of drinking water disinfection
TTHM (Total trihalo-methanes) (ppb)	2,5,8,11 2023	N	40.8 (highest LRAA at site 1) @ 1062 SE Prineville St	ND-43.9	N/A	MCL = 80	By-product of drinking water disinfection

\* Results in the Level Detected column for radiological contaminants, inorganic contaminants, synthetic organic contaminants including pesticides and herbicides, and volatile organic contaminants are the highest average at any of the sampling points or the highest detected level at any sampling point, depending on the sampling frequency. For THM's and HAA's, the "level detected" is the highest locational running annual average for the year.

### UCMR4 Disinfectants and Disinfection By-Products

These results are for the entire distribution system

Contaminant and Unit of Measurement	Dates of Sampling (mo./yr.)	Level Detected (Average)	Range of Results	Likely Source of Contamination
HAA9	3,9/20	22.5	1.7-40.4	By-product of drinking water disinfection
HAA6Br	3,9/20	12.3	1.2-21.7	By-product of drinking water disinfection
HAA5	3,9/20	14.3	1.4-25.7	By-product of drinking water disinfection

### Unregulated Contaminants

For Prineville Water Treatment Plant

Contaminant and Unit of Measurement	Dates of Sampling (mo./yr.)	Level Detected (Average)	Range of Results	Likely Source of Contamination
Source Water (Limeplant)				
Total Organic Carbon (ug/L)	3,9/20	10495	9990-11000	Naturally present in the environment
Bromide (ug/L)	3,9/20	201.5	200-203	Naturally present in the environment
Source Water (RO Plant)				
Total Organic Carbon (ug/L)	3,9/20	1995	1900-2090	Naturally present in the environment
Bromide (ug/L)	4,9/20	4105	4100-4110	Naturally present in the environment

Test Results Table							
For Prineville Water Treatment Plant							
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
Radiological Contaminants							
Radium 226 (pCi/L)	5/17/20	N	0.521	0.521	0	5	Erosion of natural deposits.
Inorganic Contaminants							
Fluoride (ppm)	3/23	N	0.76	N/A	4	4	Erosion of natural deposits; discharge from fertilizer and aluminum factories. Water additive which promotes strong teeth when at the optimum level of 0.7 ppm
Sodium (ppm)	3/23	N	93.2	N/A	N/A	160	Salt water intrusion; leaching from soil
Barium (ppm)	3/23	N	0.0027	N/A	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits.
Nitrate (ppm)	3/23	N	0.036	N/A	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits.
* Results in the Level Detected column for radiological contaminants, inorganic contaminants, synthetic organic contaminants including pesticides and herbicides, and volatile organic contaminants are the highest average at any of the sampling points or the highest detected level at any sampling point, depending on the sampling frequency. For THM's and HAA5's, the "level detected" is the highest location-al running annual average for the year.							

Test Results Table							
For James E. Anderson Water Treatment Plant							
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
Radioactive Contaminants							
Radium 226 (pCi/L)	5/17/20	N	0.69	0.69	0	5	Erosion of natural deposits
Inorganic Contaminants							
Fluoride (ppm)	3/23	N	0.66	N/A	4	4	Erosion of natural deposits; discharge from fertilizer and aluminum factories. Water additive which promotes strong teeth when at the optimum level of 0.7 ppm
Nitrate (ppm)	3/23	N	0.032	N/A	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits.
Sodium (ppm)	3/23	N	92.1	91.2 - 120	N/A	160	Salt water intrusion, leaching from soil.
Barium (ppm)	3/23	N	0.0032	N/A	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits.
* Results in the Level Detected column for radiological contaminants, inorganic contaminants, synthetic organic contaminants including pesticides and herbicides, and volatile organic contaminants are the highest average at any of the sampling points or the highest detected level at any sampling point, depending on the sampling frequency. For THM's and HAA5's, the "level detected" is the highest location-al running annual average for the year.							

Unregulated Contaminants				
For JEA Water Treatment Plant				
Contaminant and Unit of Measurement	Dates of Sampling (mo./yr.)	Level Detected (Average)	Range of Results	Likely Source of Contamination
Source Water				
Total Organic Carbon (ug/L)	3,9/20	1635	1550-1720	Naturally present in the environment
Bromide (ug/L)	4,9/20	7575	7360-7790	Naturally present in the environment



# PORT ST. LUCIE

HEART OF THE TREASURE COAST



City of Port St. Lucie Utility Systems Department  
Kevin Matyjaszek, Utility Systems Director



Mayor  
Shannon Martin



Vice Mayor  
Jolien Caraballo, District 4



Councilwoman  
Stephanie Morgan, District 1



Councilman  
David Pickett, District 2



Councilman  
Anthony Bonna, Sr., District 3



City Manager  
Jesus Merejo