



Riviera Beach **Annual** **WATER** **QUALITY** **REPORT**

Reporting Year 2024

Presented By
City of Riviera Beach

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PWS ID#: FL4501229

City of Riviera Beach

2024 Annual Drinking Water

Quality Report

PWS ID # 4501229

We are pleased to provide you with this year's Annual Water Quality Report. We want to keep you informed about the quality water and services we have delivered to you over the past year. Our goal is to provide you with a dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. If you have any questions or concerns about the information provided in this report, please feel free to call any of the numbers listed.

This report shows our water quality results and what they mean.

Where Your Water Comes From

Our water source consists of twenty-eight ground water wells drawing from the East Coast Surficial Aquifer. The utility operates a lime-softening treatment plant. Raw water from the well field is air-stripped to eliminate volatile organic compounds. The water is treated with lime & polymer and disinfected with chlorine and ammonia. The water is then filtered to remove turbidity and pumped to our consumers.

How to Reach Us

If you have any questions about this report or concerning your water utility, please contact the City of Riviera Beach Utility Special District at (561) 845-4185. We encourage our valued customers to be informed about their water utility.

How We Ensure Your Drinking Water is Safe

We routinely monitor for contaminants in your drinking water according to Federal and State laws, rules, and regulations. Except where indicated otherwise, this report is based on the results of our monitoring for the period of January 1 to December 31, 2024. Data obtained before January 1, 2024 and presented in this report are from the most recent testing done in accordance with the laws, rules, and regulations.

As authorized and approved by the Environmental Protection Agency, the State has reduced monitoring requirements for certain contaminants to less often than once per year because the concentrations of these contaminants are not expected to vary significantly from one year to another. As a result, some of our data is more than one year old.

For Customers with Special Health Concerns

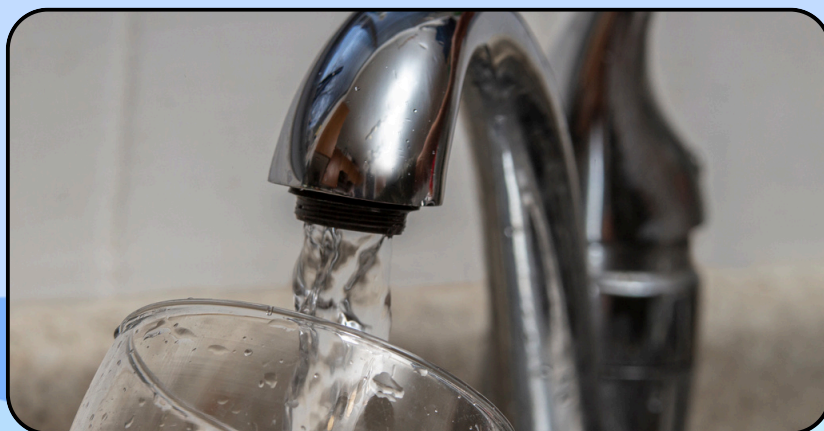
Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. Environmental Protection Agency/ Centers for Disease Control 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).

Source Water Assessment Plan

In 2024, the Department of Environmental Protection performed a Source Water Assessment on our system and a search of the data sources indicated thirty-four potential sources of contamination with a low to moderate susceptibility level. The assessment results are available on the FDEP Source Water Assessment and Protection Program website at <https://prodapps.dep.state.fl.us/swapp/>

About 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. The City of Riviera Beach USD 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 Hotline or at <http://www.epa.gov/safewater/lead>.



CITY OF RIVIERA BEACH

2024 ANNUAL DRINKING WATER QUALITY REPORT

PWS ID # 4501229

RADIOACTIVE 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
Radium 226 + 228 (pCi/L)	12/2020	N	N	N	N	N	Erosion of natural deposits
INORGANIC CONTAMINANTS							
Barium (ppm)	5/2023	N	0.0051	N/A	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Fluoride (ppm)	5/2023	N	0.15	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 (as Nitrogen) (ppm)	6/2024	N	0.61	N/A	10	10	Runoff from fertilizer use; leaching from septic tanks; sewage; erosion of natural deposits
Nitrite (as Nitrogen) (ppm)	6/2024	N	0.038	N/A	1	1	Runoff from fertilizer use; leaching from septic tanks; sewage; erosion of natural deposits
Sodium (ppm)	5/2023	N	25.6	N/A	N/A	160	Saltwater intrusion; leaching from soil

stage 1 disinfectants									
Disinfectant or Contaminant and Unit of	Dates of sampling (mo./yr.)	MCL or MRDL Violation	Level Detected	Range of Results	MCLG or MRDLG	MCL or MRDL	Likely Source of Contamination		
Chlorine (ppm)	Monthly 2024	N	2.9	0.27 – 4.27	MRDLG = 4	MRDL =4	Water additive used to control microbes		
stage 2 disinfection by-products									
Total trihalomethanes (TTHM) (ppb)	Quarterly 2024	N	16.45	7.9 – 28.0	N/A	MCL = 80	By-product of drinking water disinfection		
Haloacetic Acids (HAA5) (ppb)	Quarterly 2024	N	16.76	4.6 – 26.2	N/A	MCL = 60	By-product of drinking water disinfection		
LEAD AND COPPER									
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)	8/2023	N	0.101	0	1.3	1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives		
Lead (tap water) (ppb)	8/2023	N	2.4	0	0	15	Corrosion of household plumbing systems; erosion of natural dep		

How to Read the Table?

In the table, you may find unfamiliar terms and abbreviations. To help you better understand these terms we've provided the following definitions.

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

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.

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.

ND: Means not detected and indicates that the substance was not found by laboratory analysis.

ppm: parts per million or milligrams per liter is one part by weight of analyte to one million parts by weight of the water sample. **ppb:** parts per billion or micrograms per liter is one part by weight of analyte to one billion parts by weight of the water sample. **pCi/l:** picocurie per liter is a measure of the radioactivity in water.

Table Notes:

1. Results in the Level Detected column for radioactive contaminants and inorganic contaminants are the highest detected level at any sampling point.
2. 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 disinfection by-products, the level detected is the highest RRA computed quarterly, of quarterly averages of all samples collected 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 samples (lowest to highest) for all monitoring locations.

Riviera Beach WATER TREATMENT MODERNIZATION PROGRAM

Transforming the City's Water Future
- Enhancing Quality, Reliability, and Sustainability -



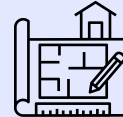
Best-In-Class
Treatment
Technology



Funding
Secured



Wellfield
Construction
Underway



WTP Design
Near
Completion



Remaining
Construction
Contracts by
Oct 2025

PROJECTED CONSTRUCTION TIMELINE Fall 2025 to Spring 2029



The Riviera Beach Water Treatment Modernization Program will transform the quality, reliability and sustainability of the City's water supply

1. Utilizes best available
2. Funding has been secured
3. Wellfield construction
4. WTP design is nearing
5. Remaining construction procured through October
6. Anticipated Plant Construction
 - a. Start – Fall 2025
 - b. Substantial completion





Riviera Beach

see what's beneath the surface