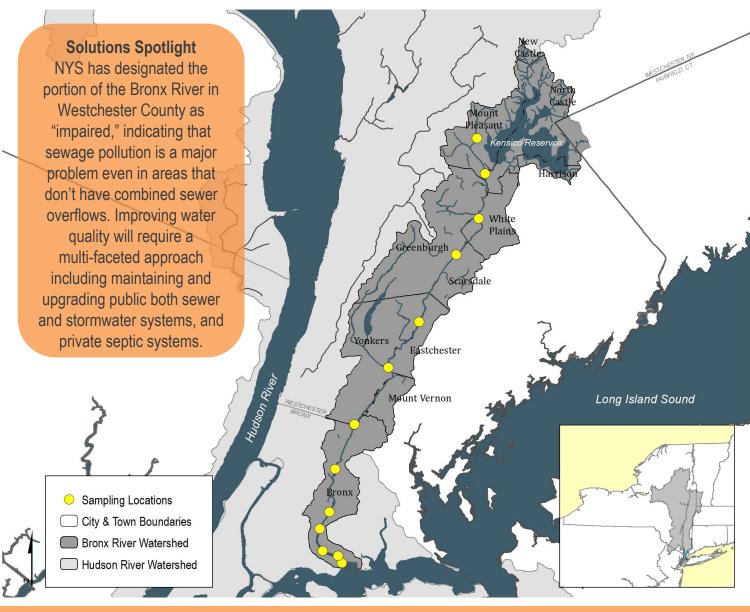
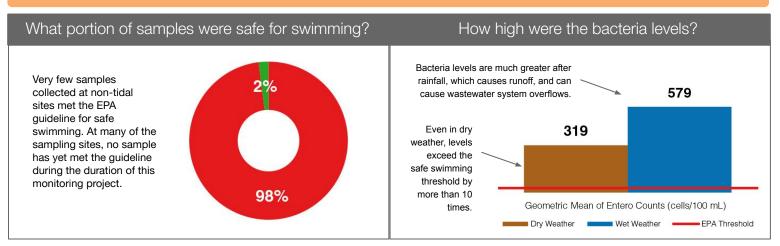
BRONX RIVER

Community Water Quality Monitoring Results

2017-2019



What the Data Show



More: Explore a watershed map, data from each sampling site, year-to-year patterns and other info at riverkeeper.org/water-quality/citizen-data/bronx-river.

Learn about the Bronx River Alliance at bronxriver.org

Community Science

The water quality data presented here are based on an analysis of 318 samples collected since 2017 by community scientists. Samples were collected once or twice per month from May to October and processed by the Sarah Lawrence College Center for the Urban River at Beczak. This work is supported by Patagonia and Westchester Community Foundation. To get involved, contact Christian Murphy at christian.murphy@bronxriver.org.

Why We Measure Bacteria

Fecal indicator bacteria such as Enterococcus ("Entero") usually do not make us sick. But because they live in the guts of warm-blooded animals, when these bacteria are present in water, pathogens that can make us sick may also be present.

Sources of fecal bacteria may include sewer overflows and failures, inade-

quate sewage treatment, urban or farm runoff, septic system failures, wildlife and contaminated sediment.

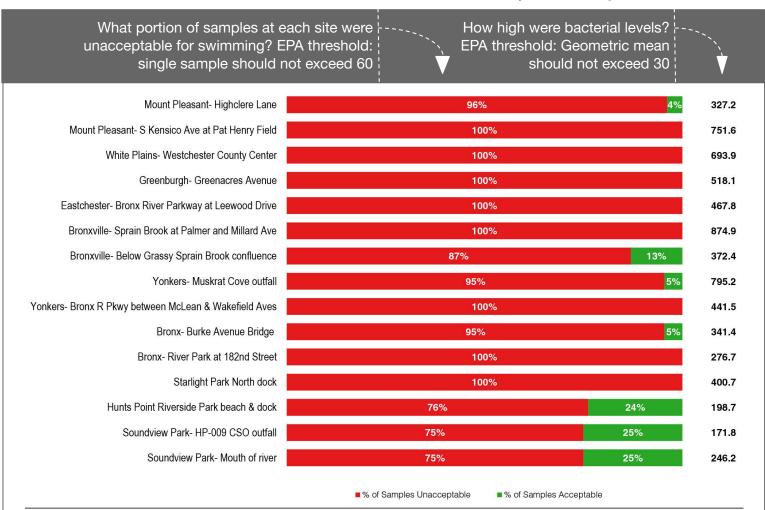
While research continues, the EPA has set thresholds to define if water is safe for swimming based on decades of science relying on measurements of these bacteria. Data are shown in Entero cells per 100 mL.

A Little About the Bronx River

The Bronx River travels 23 miles from suburban Westchester to the Bronx, where it empties into the East River. It is the only major waterway of New York City that is not entirely tidal.

Signs of Progress

Due to the high levels of fecal indicator bacteria in the Bronx River that are not attributable to combined sewer overflows (CSOs), the Bronx River Alliance has partnered with USGS to conduct a microbial source tracking study. This study will help to identify non-CSO sources of fecal indicator bacteria and pathogens in order to develop plans to mitigate them.



^{*}The geometric mean is a weighted long-term average.





