

Water Quality Report Card

Bacteria TMDL for San Francisco Bay Beaches

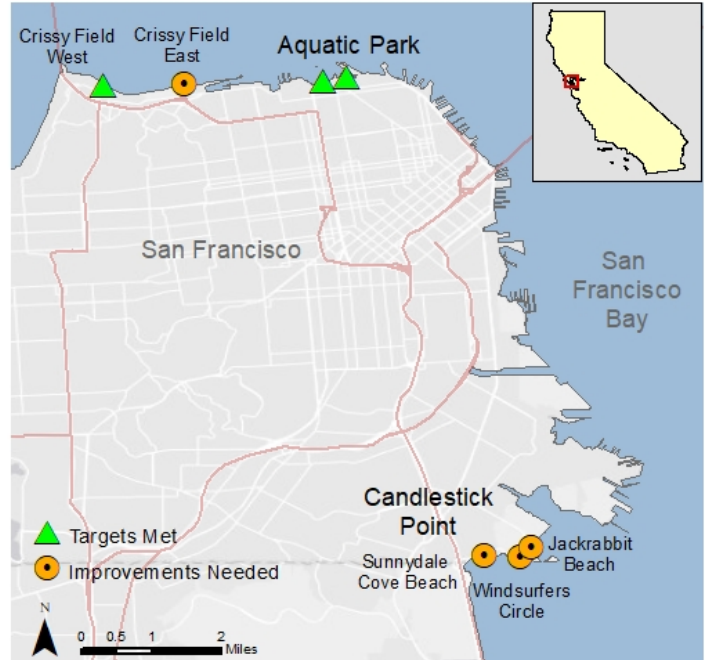
Regional Water Board:	San Francisco Bay, Region 2
Beneficial Uses Affected:	REC-1, REC-2
Implemented Through:	13267 Order, Municipal Storm Water Permit, Stakeholder Actions
Effective Date:	December 2016
Attainment Date:	Ongoing

STATUS	Conditions Improving
Pollutant Type:	Point Sources
Pollutant Source:	Urban Stormwater Runoff Wastewater Discharges Sanitary Sewer Overflows

Water Quality Improvement Strategy

In April 2016 the Water Board adopted a bacteria [Total Daily Maximum Load \(TMDL\)](#) and implementation plan for beaches in San Francisco Bay east of the Golden Gate Bridge including China Camp and McNears Beach, just north of the map extent, and the beaches in Aquatic Park, Crissy Field, and Candlestick Point. The bacteria densities at these beaches were above levels considered safe for water contact recreation (REC-1) such as swimming, wading, or surfing. While China Camp and McNears Beach achieved the REC-1 targets at the adoption of the TMDL, other beaches, in particular those at Candlestick Point showed high level of exceedances. These beaches are in urban watersheds in San Francisco and have similar bacteria sources, including sanitary sewer overflows and urban runoff, with some contributions from controllable nuisance wildlife. Implementation actions target the areas of San Francisco Bay waterfront which drain directly to the beaches and focus on enhanced inspection and maintenance of stormwater and sewer systems, and prevention of illicit discharges to the beaches.

Beaches in San Francisco Bay Bacteria TMDL



TMDL Waste Load Allocations

Pollutant Source Category	Enterococcus (MPN/100mL)
Sanitary Sewer Collection Systems	0
Urban Runoff	Geometric mean ^a < 35 No sample ^b > 104

- a. Based on a minimum of five consecutive samples equally spaced over a 30-day period.
- b. No more than 10% of total samples during any 30-day period may exceed this number.

Water Quality Outcomes

- *Enterococcus data for 2015 – 2020 show noticeable reduction in the number of geometric mean exceedances at all beaches.*
- *Beaches in Aquatic Park and Crissy Field have already achieved the REC-1 target with the geometric mean exceedance rate below five percent. All beaches have good water quality during the dry season (April – Sep).*
- *Enhanced best management practices to prevent bacteria discharges during wet weather are still needed.*

Reduced Number of Exceedances for *Enterococcus* Found at All Beaches

