



2019 Water Quality Updates Maine Healthy Beaches Casco Bay Monitoring Network

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Maine Healthy Beaches Program

MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION

Protecting Maine's Air, Land and Water

Monitoring, Assessment & Notification

Beach Management
Areas: **63**

Towns/Parks: **29**

Casco Bay

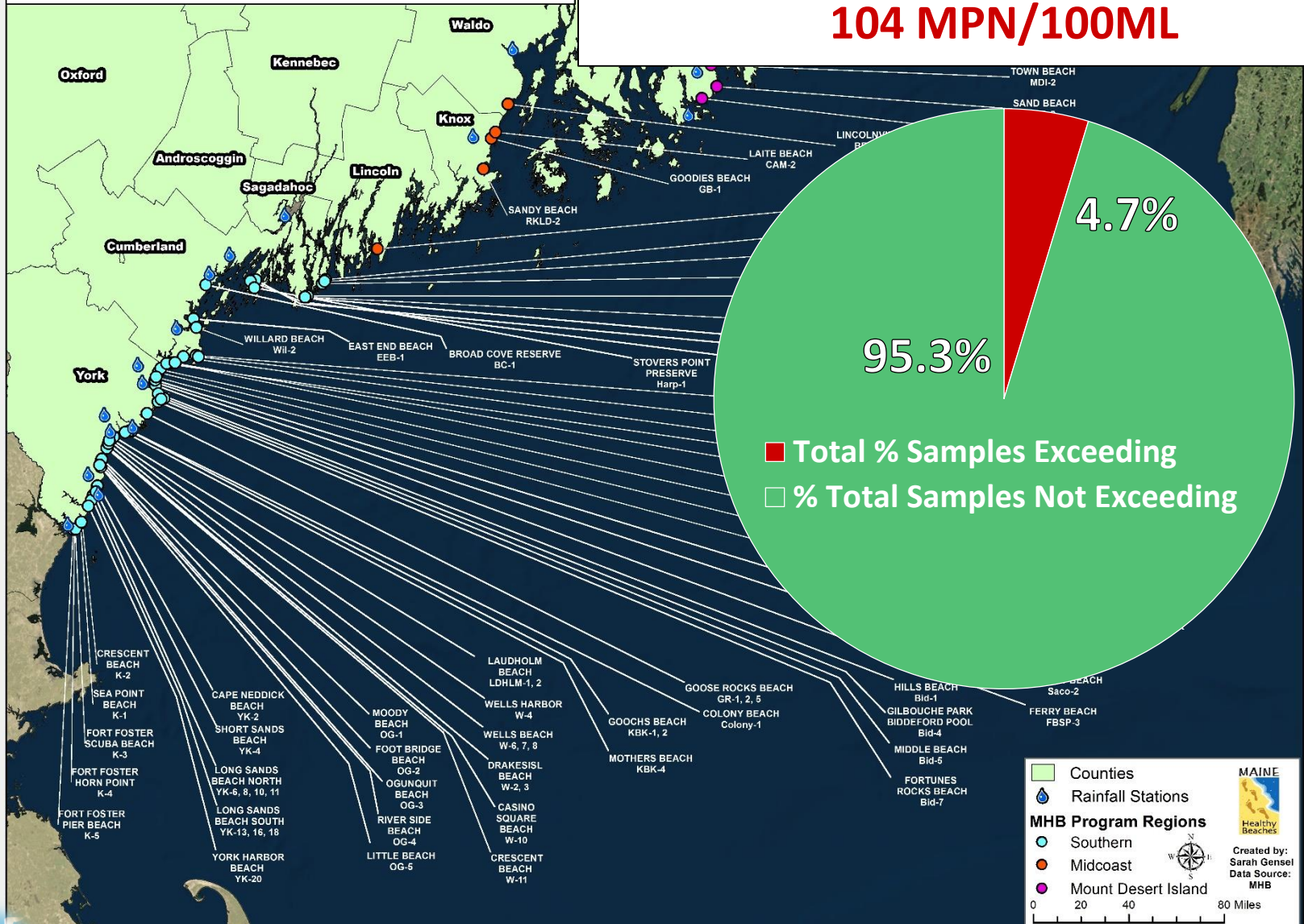
- South Portland – **1 (Willard)**
- Portland – **1 (East End)**
- Cumberland – **1 (Broad Cove)**
- Harpswell – **3 (Mitchell Field, Stover's Point, Mackerel Cove)**



Maine Healthy Beaches - 2019 Participating Beaches & Rainfall Stations

Maine's Single Sample Safety Threshold

104 MPN/100ML



Casco Bay – 6 Participating Beaches

Broad Cove Reserve = 0%

0 exceedances/13 events

BC-1 (Broad Cove Reserve)

East End Beach = 11.1%

3 exceedances/29 events

EEB-01 (East End Beach)

Portland

WIL-02 (Willard Beach)

Willard Beach = 0%

3 exceedances/29 events

Harpwell

HARP-2 (Mitchell Field Beach)

HARP-1 (Stover's Point Preserve)

HARP-3 (Mackerel Cove)

Mitchell Field Beach = 7.1%

1 exceedance/14 events

Stover's Point Preserve = 0%

0 exceedances/13 events

Mackerel Cove = 0%

0 exceedances/13 events

Overall Program Exceedance Rate

4.7%

Enhanced Monitoring Activities

Willard Beach **Goosefare Brook** **Goose Rocks Beach** **Kennebunk River**
(South Portland) (Saco/OOB) (Kennebunkport) (Kennebunk, Lyman, Arundel)

Parameter	Method	Source Target	Cost/Expertise
Enterococci (ENT)	Grab sample, Enterolert	Warm blooded animals	Low/Low
Optical brighteners (OB)	Grab sample, Fluorometry	Human	Low/Low
Pharmaceuticals and personal care products (PPCP)	Grab sample, metabolite analysis	Human	High/High
Canine detection	Grab sample in tandem with canines	Human	Low/Med
Microbial source tracking (MST)	Grab sample, DNA extraction	Variety of human and non-human sources	High/High

In partnership with US EPA:

Pharmaceuticals and Personal Care Products
Microbial Source Tracking

Screening toolkit
(ammonia, surfactants, chlorine)



MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION

www.maine.gov/dep

Program Updates & 2020 Plans

Updates

- **Upgraded program database**
 - Improved access for public and program partners
 - Advisory alerts now available to the public/partners via public interface
- **New program staff**
 - Joe Taft (Maine Conservation Corps - Environmental Steward)

2020 Season Plans

- Decisions on future monitoring plans will be re-assessed on or after May 1st.
- Awaiting guidance from EPA for beaches specific monitoring (if approval to monitor received from DEP).
- Moving forward with annual meetings and 2020 monitoring season preparations.





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