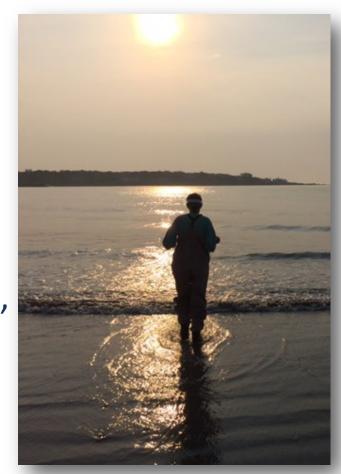


2023 Coastal Beach Water Quality Monitoring Efforts in Casco Bay

Sarah Gensel Program Specialist Maine Healthy Beaches Program

Coastal Water Quality Monitoring

- Area of focus: Coastal, saltwater beaches; intersection of freshwater and marine environments
- Participants: municipalities, state parks, volunteers
- Partners: state and federal agencies, universities, conservation districts, consultants, conservation commissions, etc.





MHB Purpose

Implement a coastal, marine beach monitoring and public notification program. Monitoring **Assessment Public Notification** OF ENVIRONMENTAL PROTECTION www.maine.gov/dep

MHB Program Staff

VacantMHB Program
Coordinator

Sarah Gensel MHB Program Specialist

Robbie Denegre
Maine Conservation Corps
Environmental Steward

Meagan Sims
WQS Coordinator
& Unit Leader

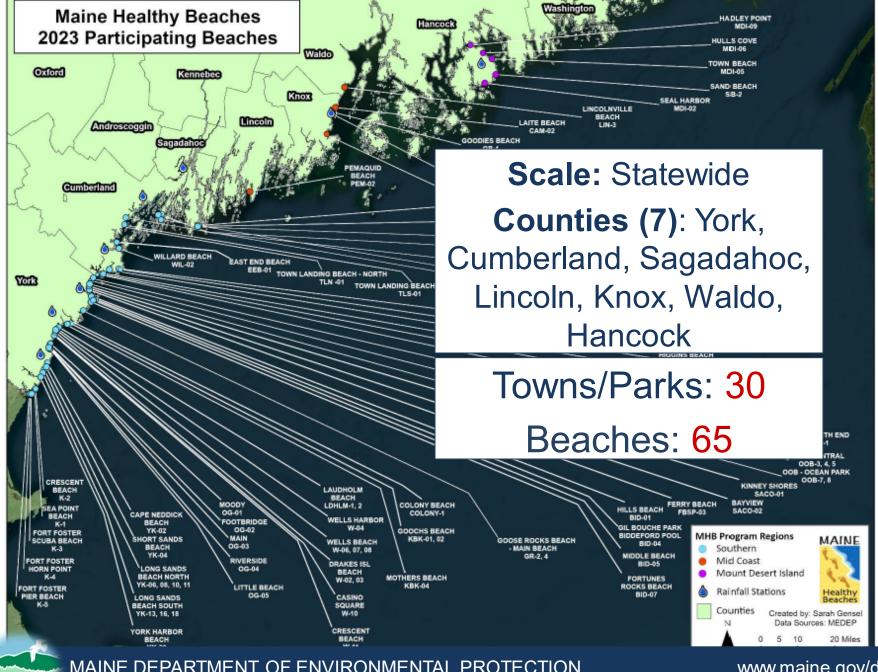






Monitoring

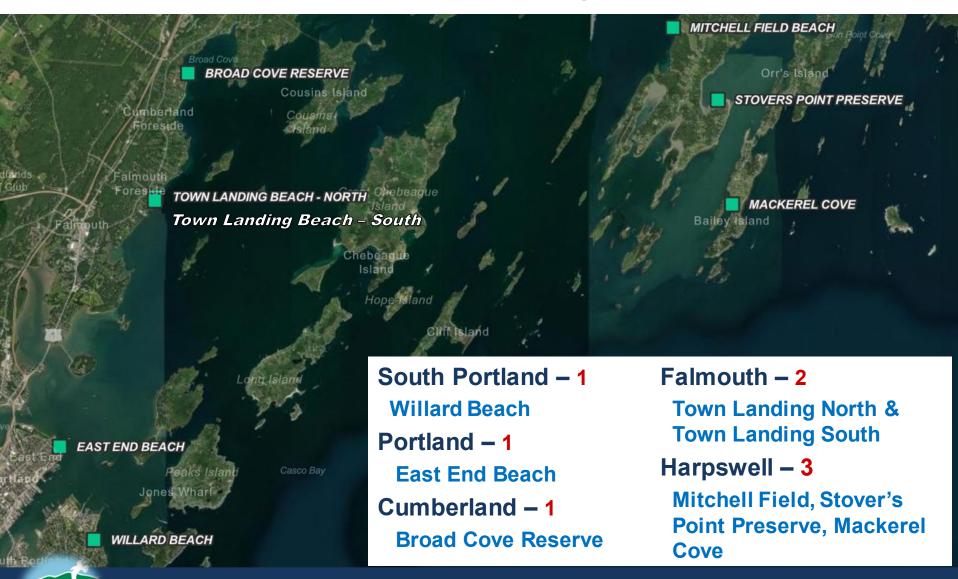




MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION

www.maine.gov/dep

Casco Bay



MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION

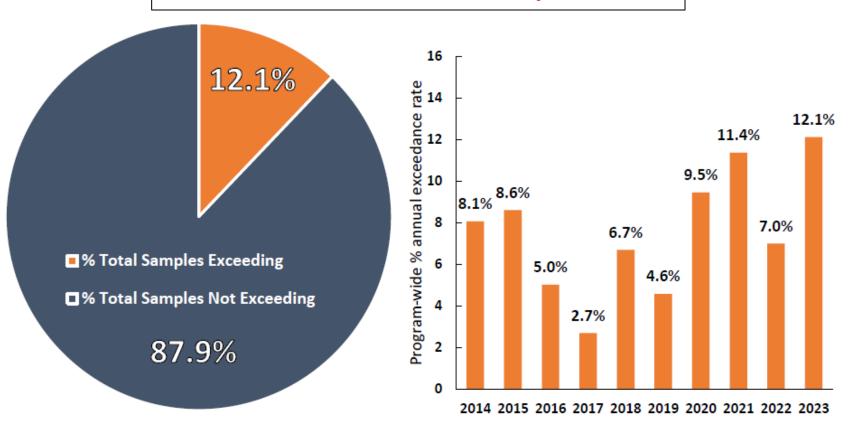
www.maine.gov/dep

Assessment



Assessment – Program Wide

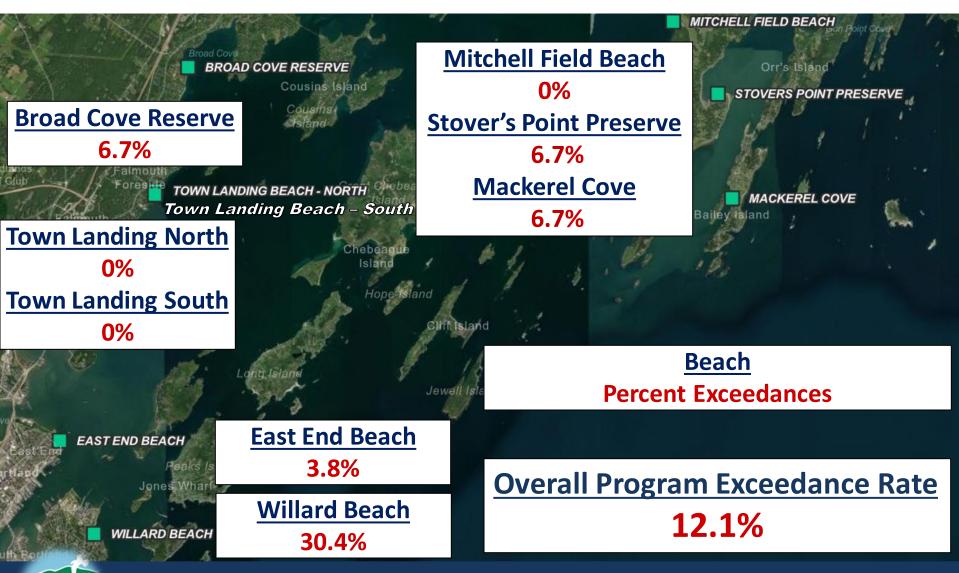
Maine's Single Sample Safety Threshold for Enterococci = 104 MPN/100ML



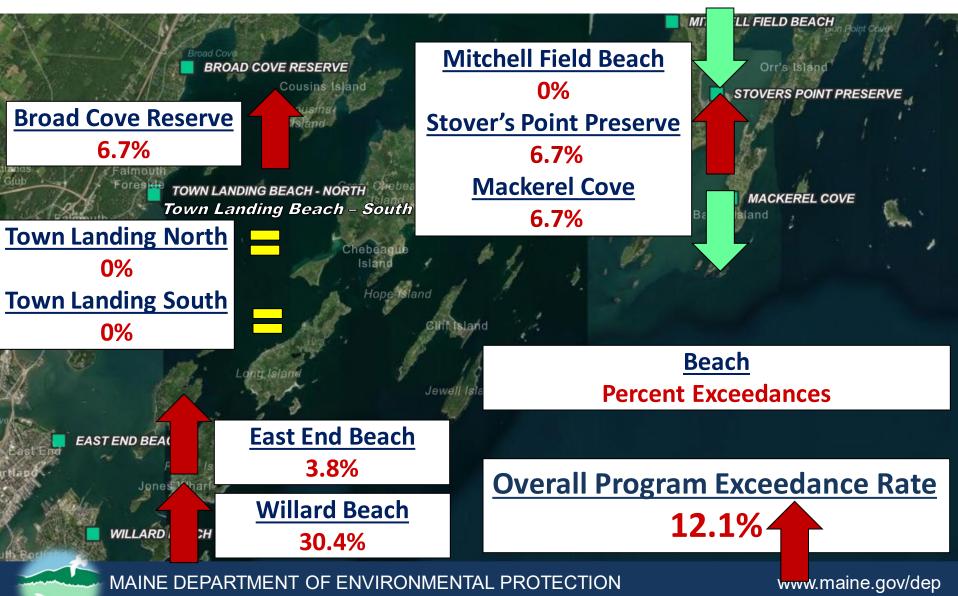
Figures 2-3. The 2023 total % annual exceedance rate of Maine's BAV (104 MPN/100mL) and MHB's program-wide annual exceedance rate for the past ten monitoring seasons (2014-2023).



Assessment – Casco Bay



Assessment – Casco Bay



Prioritization of Resources

Maine's Integrated Report

Impaired beaches prioritized

Environmental Justice

- Future considerations
- Monitoring & assessment for beaches serving disadvantaged communities

Local Interest or Existing Project

Need local support

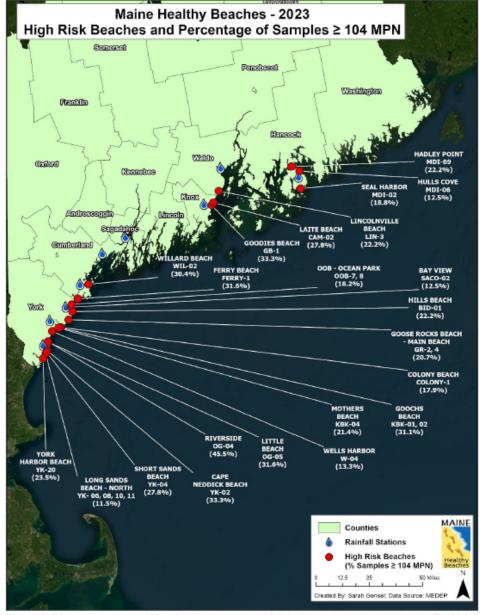


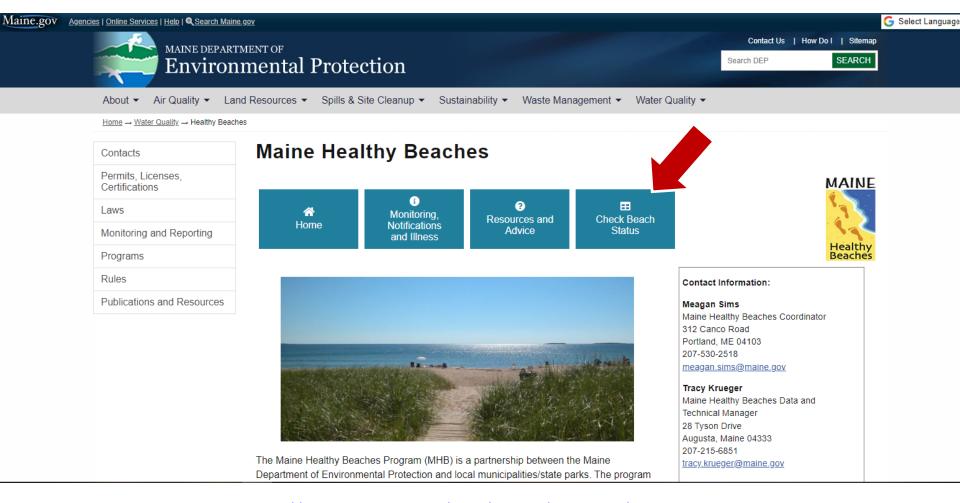
Figure 7. BMAs for which ≥10% of samples exceeded Maine's single sample maximum BAV for enterococci in marine waters (104 MPN/100mL) in 2023.



Notification



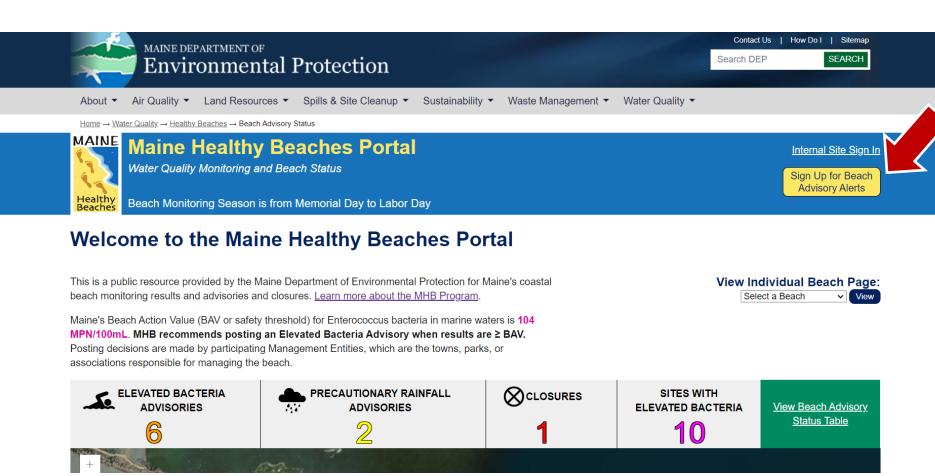
New MHB Program Database



https://www.maine.gov/dep/water/beaches/index.html



New MHB Program Website



www.mainehealthybeaches.org





Maine Healthy Beaches Portal

Water Quality Monitoring and Beach Status

Beach Monitoring Season is from Memorial Day to Labor Day

Return to Map Homepage

View Beach Status Table

Water Quality Monitoring Data

Cresent Beach (Wells)

– Filter –––		
Site Select a Site ➤	Date Collected Start Date	Date Collected End Date
Filter Clear Fi	<u>Iters</u>	

Maine's Beach Action Value (BAV or safety threshold) for Enterococcus bacteria in marine waters is 104 MPN/100mL.

Show 25 ✔ entries

Site Name \$	Date Collected	Enterococcus (MPN/100mL)
W-11	06/28/2022	10
W-11	06/21/2022	10
W-11	06/14/2022	10
W-11	06/07/2022	10
W-11	05/31/2022	10

Showing 1 to 5 of 5 entries

Previous 1

Next

Download Data: Water quality data are available for download using the buttons below. This download will include date collected, Enterococcus, salinity, water temperature, and air temperature.

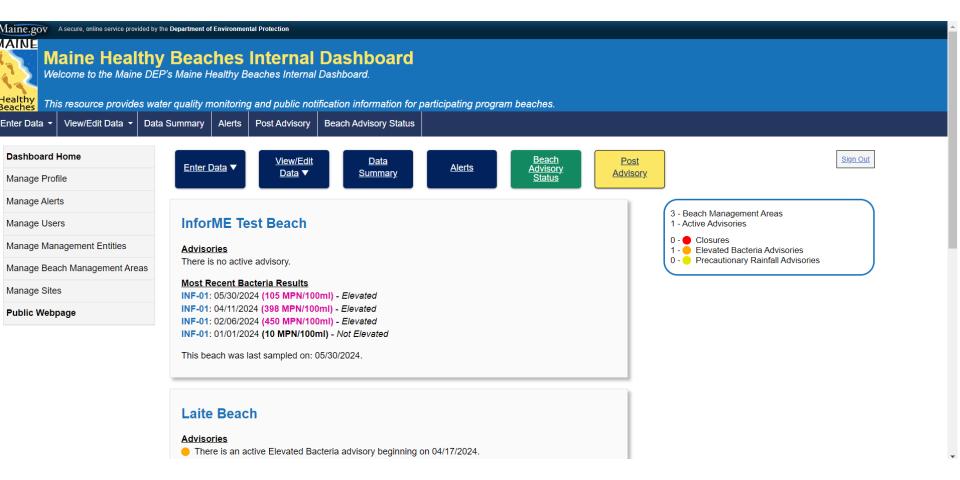


Download CSV

Download XML



New MHB Program Database



www.mainehealthybeaches.org



Maine Healthy Beaches Program



Welcome! We monitor bacteria levels routinely at this beach for your safety and health.



Water quality can change unexpectedly. Rainfall can increase bacteria levels. Swim, surf, and wade at your own risk.

For beach status updates, visit MaineHealthyBeaches.org



Maine Healthy Beaches Program



Bacteria levels are routinely monitored at this beach.



No Water Quality Advisory At This Time



For beach status updates and water quality data visit mainehealthybeaches.org









No Water Quality Advisory Elevated Bacteria Advisory Precautionary Rainfall Advisory Beach Closed

Water quality can change unexpectedly.
Rainfall can increase bacteria levels.
Swim, surf, and wade at your own risk.





Maine Healthy Beaches Program



Bacteria levels are routinely monitored at this beach.



No Water Quality Advisory At This Time



For beach status updates and water quality data visit mainehealthybeaches.org









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Maine Healthy Beaches Program



Bacteria levels are routinely monitored at this beach.



ELEVATED BACTERIA ADVISORY

Bacteria levels may be unsafe. Water contact is not advised.



For beach status updates and water quality data visit mainehealthybeaches.org









No Water Quality Advisory Elevated Bacteria Advisory Precautionary Rainfall Advisory Beach Closed

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Maine Healthy Beaches Program



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Maine Healthy Beaches Program



Bacteria levels are routinely monitored at this beach.



PRECAUTIONARY RAINFALL ADVISORY

Rainfall can increase bacteria levels. Water contact is not advised.



For beach status updates and water quality data visit mainehealthybeaches.org









No Water Quality Advisory Elevated Bacteria Advisory Precautionary Rainfall Advisory

Beach Closed

Water quality can change unexpectedly.
Rainfall can increase bacteria levels.
Swim, surf, and wade at your own risk.





CONTAMINATION ADVISORY

Bacteria
levels may
be unsafe.
Water
contact is
not advised.





ELEVATED BACTERIA ADVISORY

Bacteria levels may be unsafe. Water contact is not advised.



For beach status updates and water quality data visit

mainehealthybeaches.org

RAINFALL ADVISORY

Rainfall can increase bacteria levels. Water contact is not advised.



PRECAUTIONARY RAINFALL ADVISORY

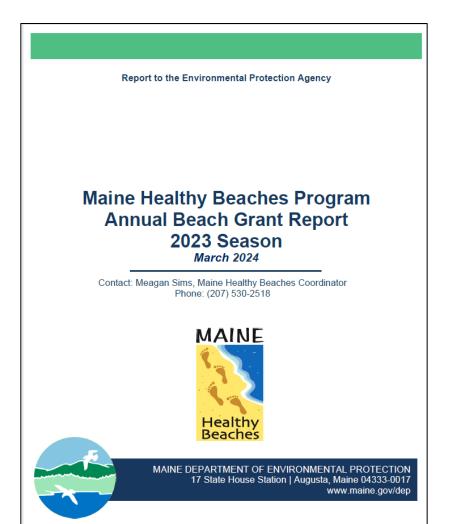
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2023 Final Report to EPA



www.mainehealthybeaches.org



Program Documents

- EPA Grant Report
- Risk Assessment Matrix
- Program Brochure
- Boating Brochure
- MHB Program Advisory Fact Sheet
- MHB Program Quick Facts
- MHB Poster
- Think Healthy Swim Healthy Act Healthy Poster



Contact:

Meagan Sims meagan.sims@maine.gov 207-530-2518

www.maine.gov/dep



Integrated Report

Coastal Designated Beaches

- 68 beaches assessed (2018-2022)
- % of monitoring season a beach is under recommended contamination notification

Categories Assigned

Category 2 — No threatened use

Category 3 — Some uses may not be attained. Insufficient data.

Category 5 — Impaired or threatened for 1 or more designated use.

Final Draft State of Maine

Department of Environmental Protection



Minney Shores, Saco

2018 / 2020 / 2022 Integrated Water Quality Monitoring and Assessment Report

March 30, 2022



MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION 17 State House Station | Augusta, Maine 04333-0017



Integrated Report

Coastal Designated Beaches

- 65 beaches assessed (2018-2022)
- % of monitoring season a beach is under recommended notification

Categories Assigned

Category 2 – 59 beaches

Category 3 – 5 beaches

Category 5 — 4 beaches

Final Draft State of Maine

Department of Environmental Protection



Kinney Shores, Slaco-

2018 / 2020 / 2022 Integrated Water Quality Monitoring and Assessment Report

March 30, 2022



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Integrated Report

Category 5: 4 Beaches

- Willard Beach (South Portland)
- Goose Rocks Beach Little River (Kennebunkport)
- Goose Rocks Beach Batson River (Kennebunkport)
- Riverside Beach (Ogunquit)

Category 3: 5 Beaches

- Mackerel Cove (Harpswell)
- Goochs Beach (Kennebunk)
- Little Beach (Ogunquit)
- East End Beach (Portland)
- Lincolnville Beach (Lincolnville)

https://www.maine.gov/dep/water/monitor
ing/305b/

Final Draft

State of Maine

Department of Environmental Protection



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