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Barnstable Town Council

Water Resources Management Update Embayment Monitoring Program

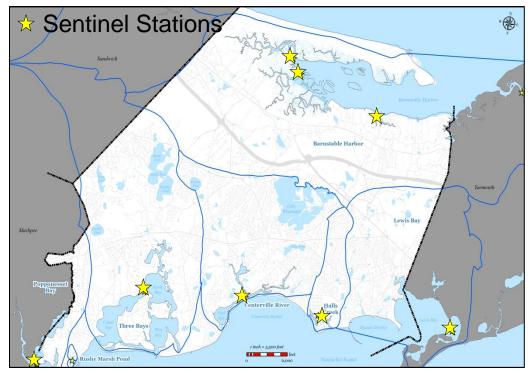
Department of Public Works October 20, 2022



Embayment Monitoring Program Overview



- General
 - Annual monitoring program
 - Data collected from 70 stations
 - Initiated in 2002
 - Collaborative effort involving:
 - Town staff
 - citizen volunteers
 - Barnstable Clean Water
 Coalition
 - adjacent Towns, and
 - SMAST





Embayment Monitoring Program Field Sampling



- Annual training for roughly 25-30 samplers divided among ~15 teams
- Sampling occurs during a mid-ebb tide between 6-9AM from July – Sept
- Field data collected for water clarity, dissolved oxygen, and temperature.
- ~ 300 samples are collected each year over four sampling events
- Samples are delivered to SMAST for sample processing



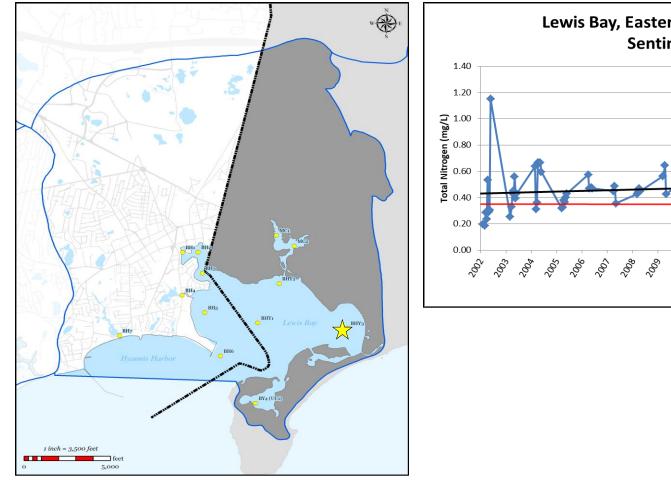


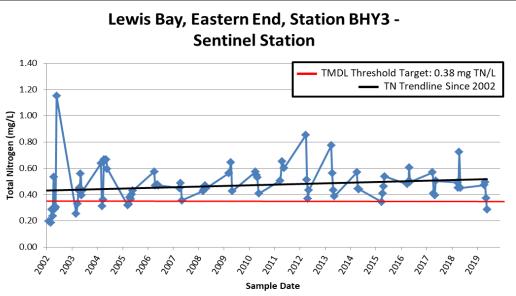






• Lewis Bay

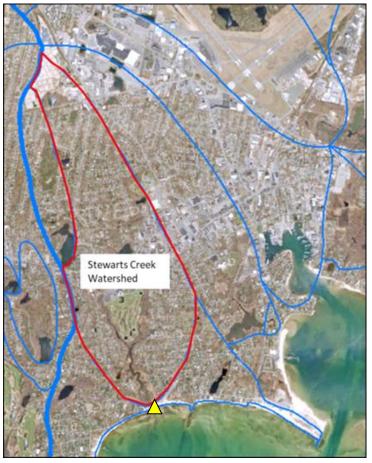


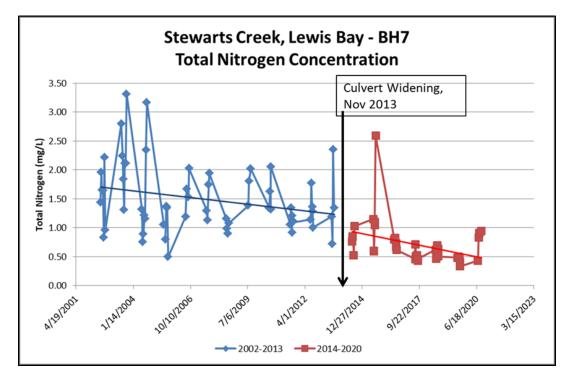






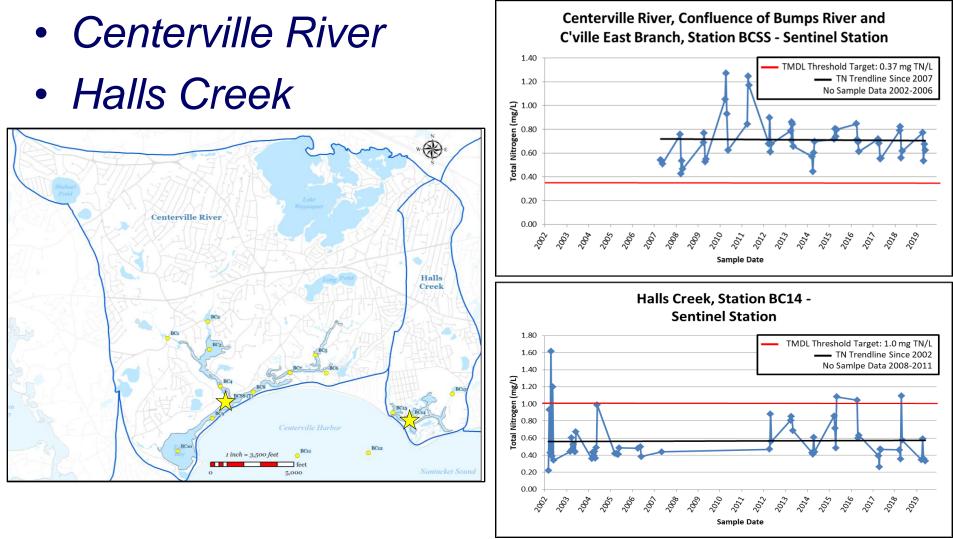
Stewarts Creek





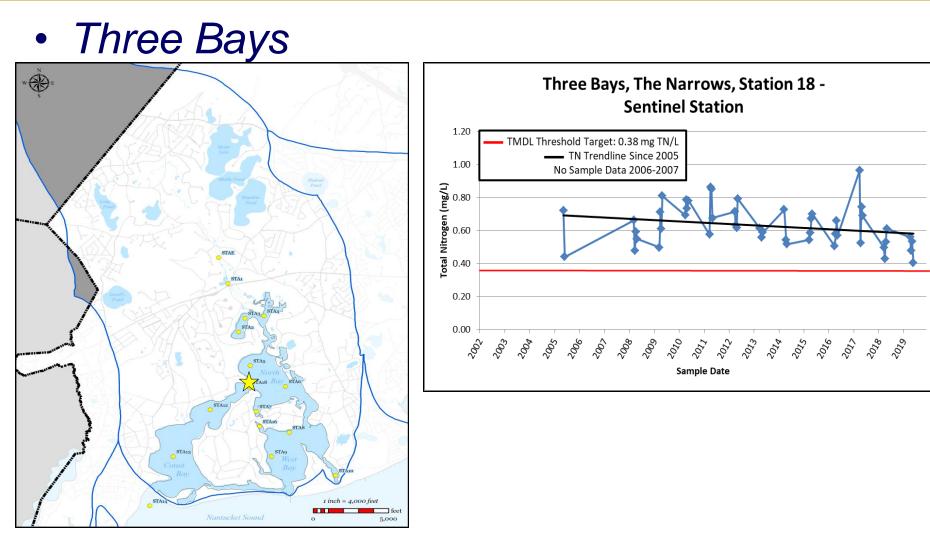










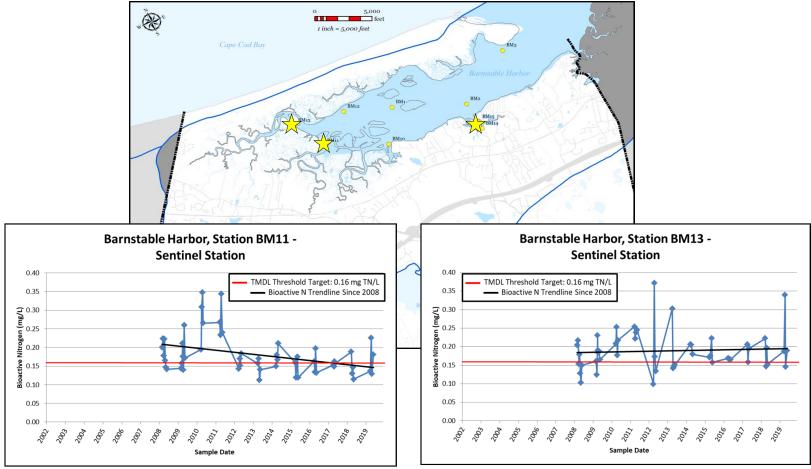


Town of Barnstable, Department of Public Works





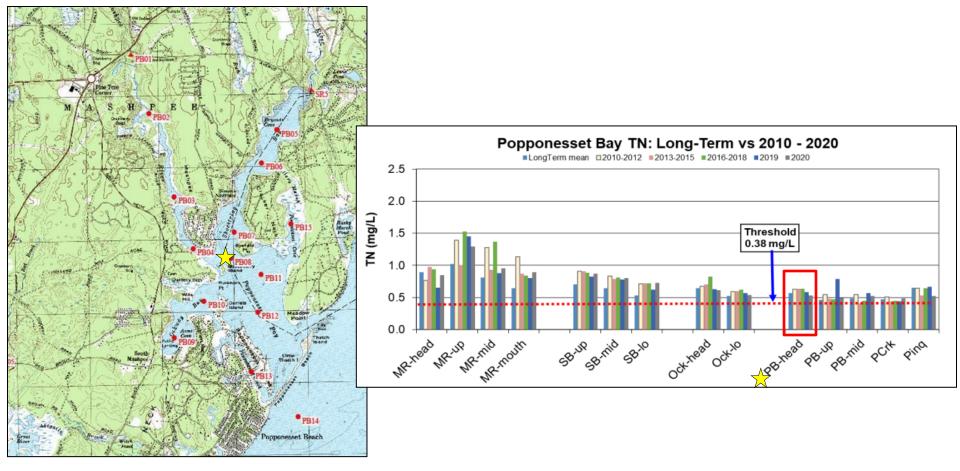
• Barnstable Harbor, Great Marshes







• Popponessett Bay (Shoestring Bay)

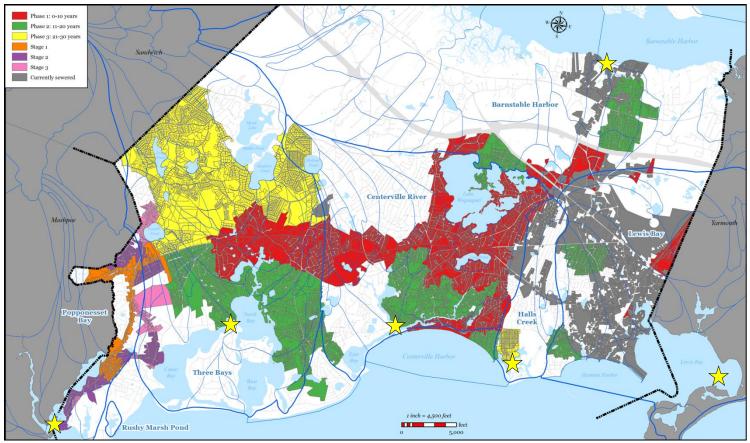




Embayment Monitoring Program Looking Forward



• This monitoring program provides the baseline data for our estuaries and the ability to track nitrogen improvements as we implement our CWMP



Town of Barnstable, Department of Public Works







