

Yarmouth Stormwater Project Improving Water Quality



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Association to Preserve Cape Cod



Goal of Project

To improve coastal water quality by reducing or eliminating pollution (bacteria and nitrogen in particular) from stormwater runoff



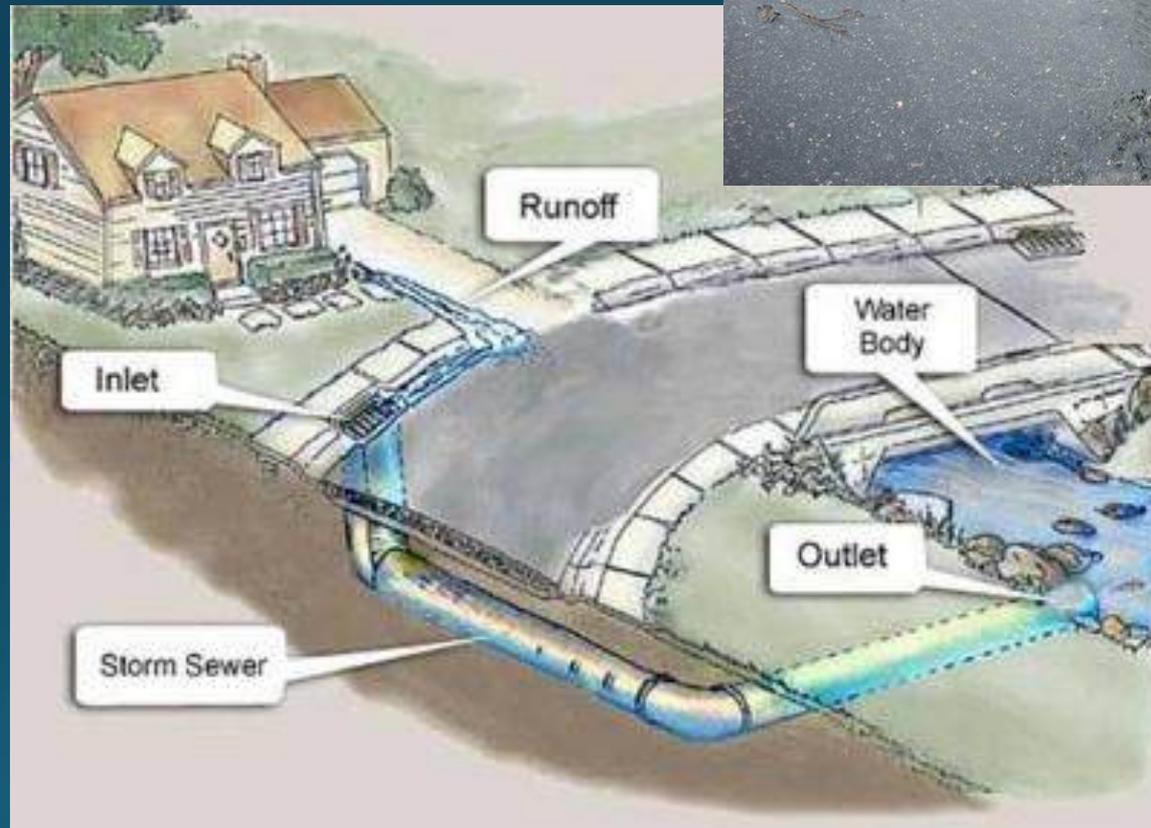
What is stormwater?



rain

impervious

runoff



Why is stormwater a problem?

nutrients

trash

**bacteria &
pathogens**

pesticides

metals

**thermal
stress**



oil

**emerging
contaminants**

sediment

salts

The Water Quality Problem Yarmouth



Negative Effects on the Environment

- Excessive algal growth
- Habitat degradation
- Harm to wildlife



Negative Effects on the Community

- Health hazards
- Beach closures
- Shellfishing closures
- Algal nuisance
- Aesthetics and odor
- Lower property values



What can we do about it?

1. Reduce stormwater volume
2. Reduce pollutants at the source
3. **Install green infrastructure stormwater systems**



Project Overview



- Building of Ongoing Work by the Town to Support Plans for Multi-Year Project
- \$82K FY23 CZM grant
- \$795K FY24 CZM grant
- \$180K NRCS
- Town Matching Funds
- Project: 2022-2025
- Complete Assessment, Prioritization, Design and Installation of Green Infrastructure at Top Priority Sites

Project Timeline to Date



- Year 1: Oct 2022–June 2023 Planning, Prioritization and Conceptual Designs for 28 of 80 Sites Identified
- June 2023: Public Meeting to review top 10 sites
- Fall 2023: Selected Top 5
- Winter 2023: Completed Site Survey and Assessment
- Spring 2023: Developed 25% Concept Designs
- June 2024: Public Meeting to Review

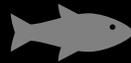
Outcomes



Reduction in bacteria and nitrogen entering coastal embayments



Reduce beach and shellfish closures



Improved habitat for shellfish, fish and wildlife



Restoration of water quality for shellfishing, fishing, boating and swimming



Email awobst@apcc.org or alima@yarmouth.ma.us with questions, comments or to sign up for future emails

Go to www.apcc.org/stormwater for more information on stormwater, rain gardens, and what you can do to help



Natural Resources Conservation Service