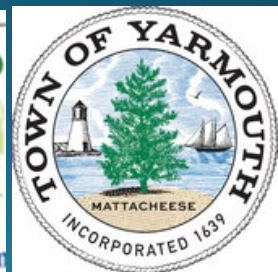


# Chase Brook Park

*(A Once in a Generation Opportunity For Yarmouth!)*



Nathan L. Whetten, P.E., C.G.,  
Yarmouth Department of Public Works



# Chase Brook Park



## Town Partners

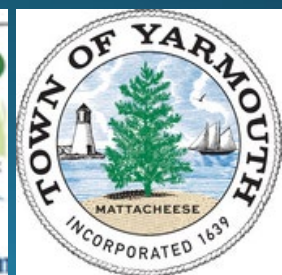
Yarmouth Community Development  
Yarmouth Open Space Committee  
Yarmouth Community Preservation

## Funding

The SNEP Network (SWIG'24 grant)  
Yarmouth Community Preservation Act  
Yarmouth Capital Improvement

## Design Partners:

Tighe & Bond  
Crawford Land Management



# Why is stormwater a problem?

**nutrients**

**trash**

**bacteria &  
pathogens**

**pesticides**

**metals**

**thermal  
stress**

**oil**

**emerging  
contaminants**

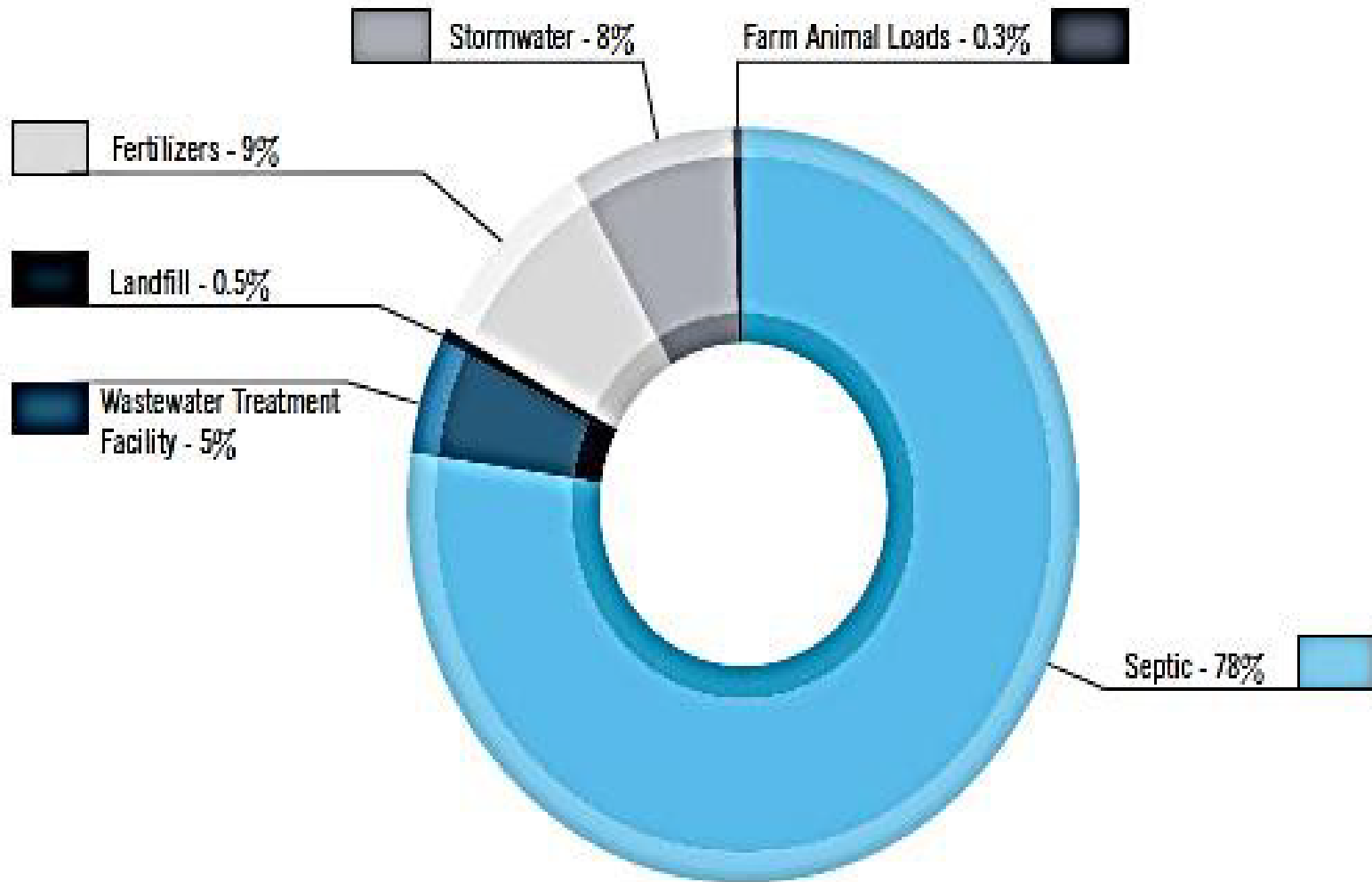
**sediment**

**salts**



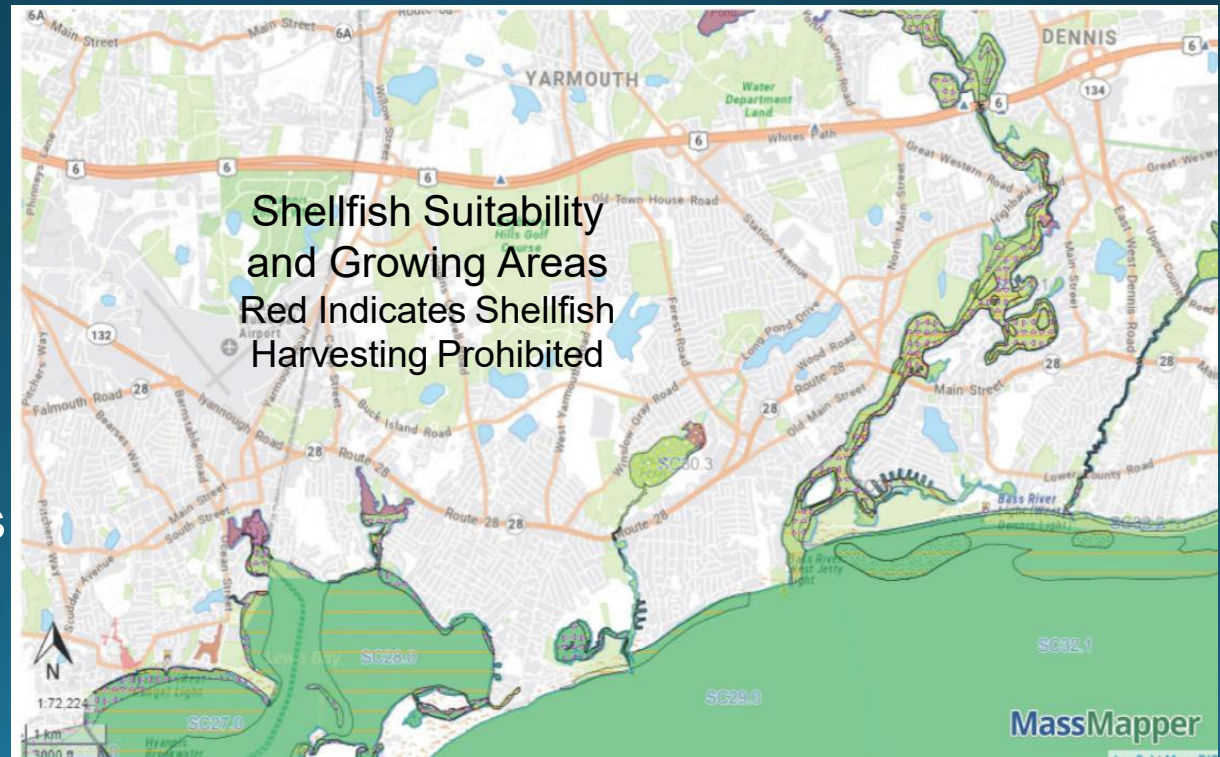
**Source: APCC**

# Nitrogen and Stormwater

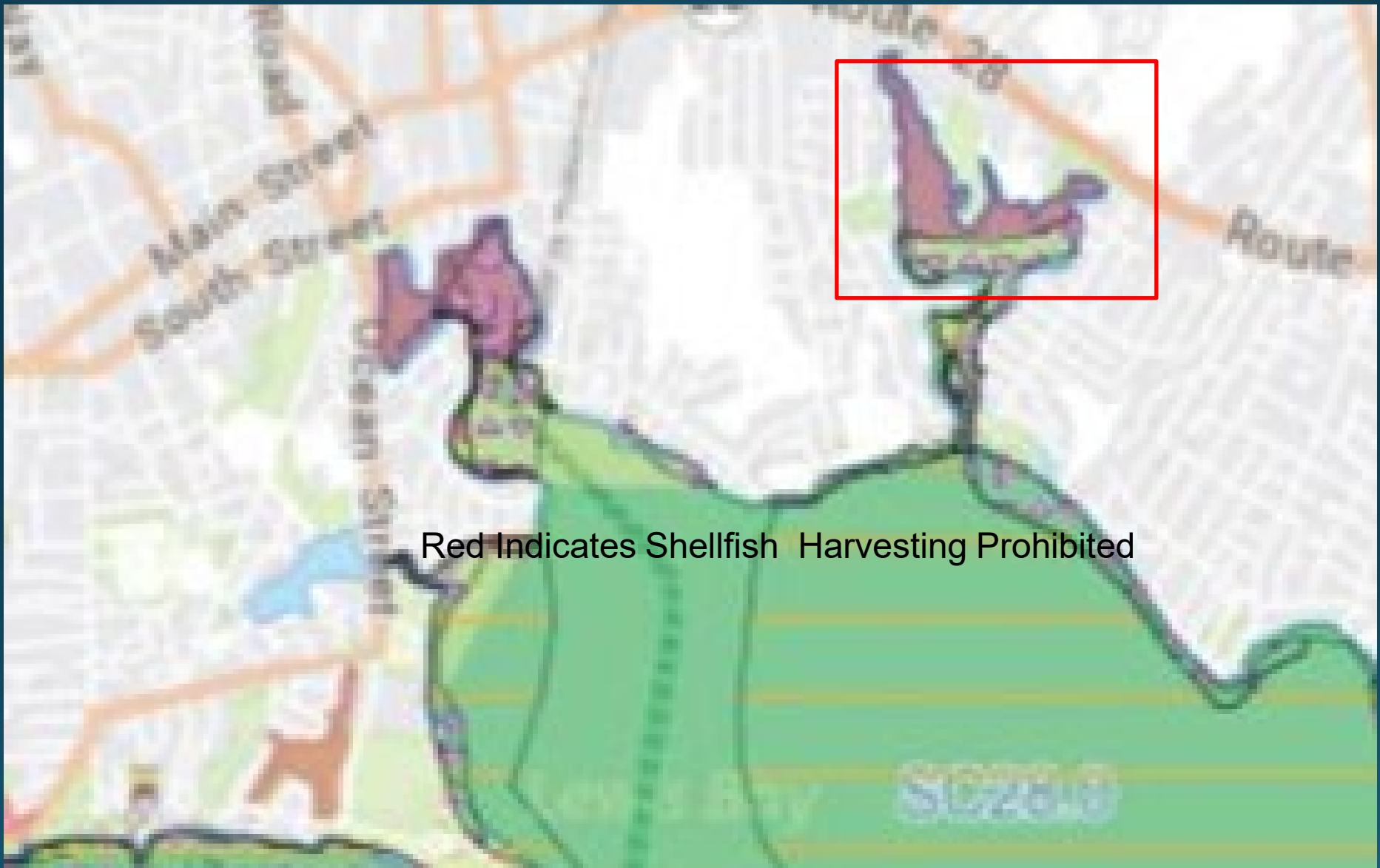


# Negative Effects on the Community

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



Source: APCC



Red Indicates Shellfish Harvesting Prohibited

*“In 2023 Mill Creek's water quality data had such drastic unfavorable pollutants that the State implemented restrictions on the harvest of shellfish”.*

*“Mill Creek is one of our Town' s most diverse coastal ecosystems, providing habitat for a plethora of land and aquatic species as well as recreational enjoyment for residents and visitors”.*

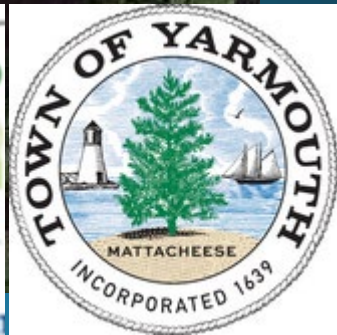
*“Un-development“ (the project) ... will lessen the negative impact on Mill Creek and improve overall water quality and embayment health”.*

(From Yarmouth Natural Resources 6/18/2024 Letter of Support for our SNEP'24 Watershed Implementation Grant application)

# Chase Brook Park

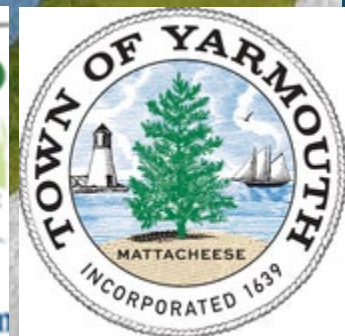
*(A Once in a Generation Opportunity For Yarmouth!)*

Combine Three Town Parcels (261, 275 & 281 Route 28)  
into a Single Cohesive and Integrated Park



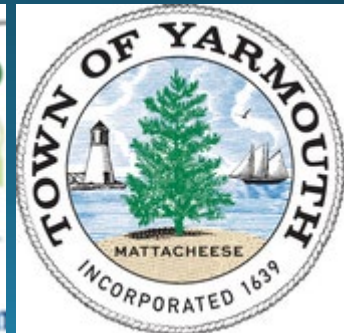


# Let native plants do the work of removing contaminants!



# Integrated Design

- Elements to Remain:
  - Deck Structure, Parking Areas, Existing Drainage
  - Native Trees, Native Shrubs
- Elements Being Renovated:
  - Walking Paths – removed & relocated
  - Selective Removal of Trees at Deck Structure
  - Non-native/invasive trees & shrubs removed
  - New stabilized aggregate paths
  - New plant communities established through seed and planting
  - New Bridge



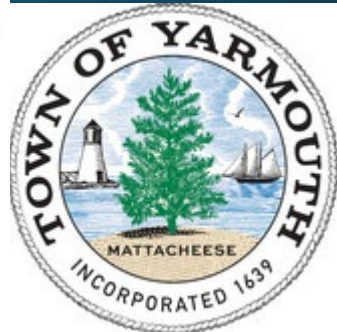
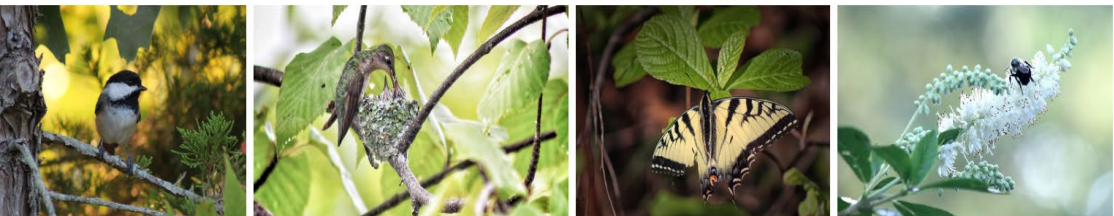
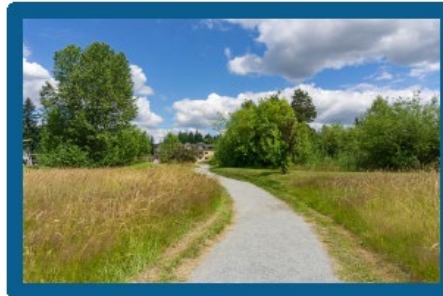


# PROPOSED BIRCH GROVE AND RESTORED NATIVE SHRUB COLONIES

Better erosion control and more wildlife habitat



## Chase Brook Park



## Question:

How long will it take for safe shellfishing to return to the Upper Mill Creek?

# Project Progress


- Design Started - May 2023
- Design Completed – November 2025
- Construction Started - February 2026
- Substantial Completion - Expected Fall 2026
- Invasive Species Management 2026 to 2028 (3 years)



\$434,230 Awarded to Yarmouth!

The Largest SWIG '24 grant awarded



  
Southeast New England Program

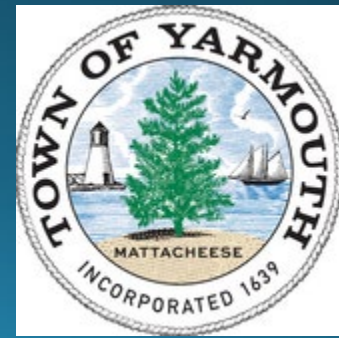
**2024 SNEP WATERSHED IMPLEMENTATION GRANTS**

**Subrecipient Agreement**  
**Between Restore America's Estuaries**  
**and**  
**Town of Yarmouth**

**Date of Signature-Dec. 31, 2026**

**Grant Agreement #SWIG24-9-YARMOUTH**

**Award Amount: \$434,230**



# Chase Brook Park- Construction Has Started!



# Chase Brook Park- Construction

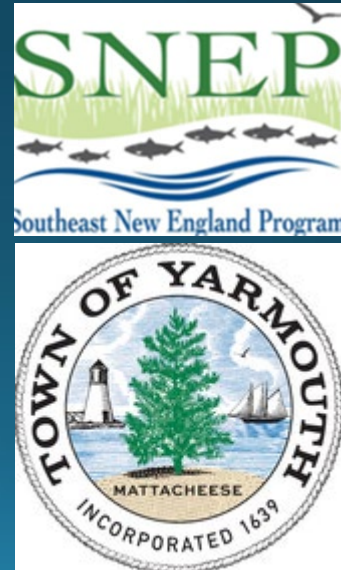


# How long will it take to restore safe shellfishing to Upper Mill Creek?

Answer depends on several factors:

- Permeability – high in sandy soils
  - Vertical flow - up to 2 inches per hour (fast)
  - Horizontal flow - need gradient (sloping water surface)
    - Can be very slow (years?)
- Sewer Construction on Rt 28
  - Est 2030<sub>±</sub> hookups complete
- MADOT Route 28 construction
  - Complete Est 2035<sub>±</sub>
  - Discharge directly to waterways?
- Cranberry Bogs – North side of Route 28 – Fertilizer used?
  - Yes, Cape sands have low nutrient content
  - Nitrogen, Phosphorous, and Potassium typically applied

We Need the Results of Additional Water Quality Tests





# Questions?

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