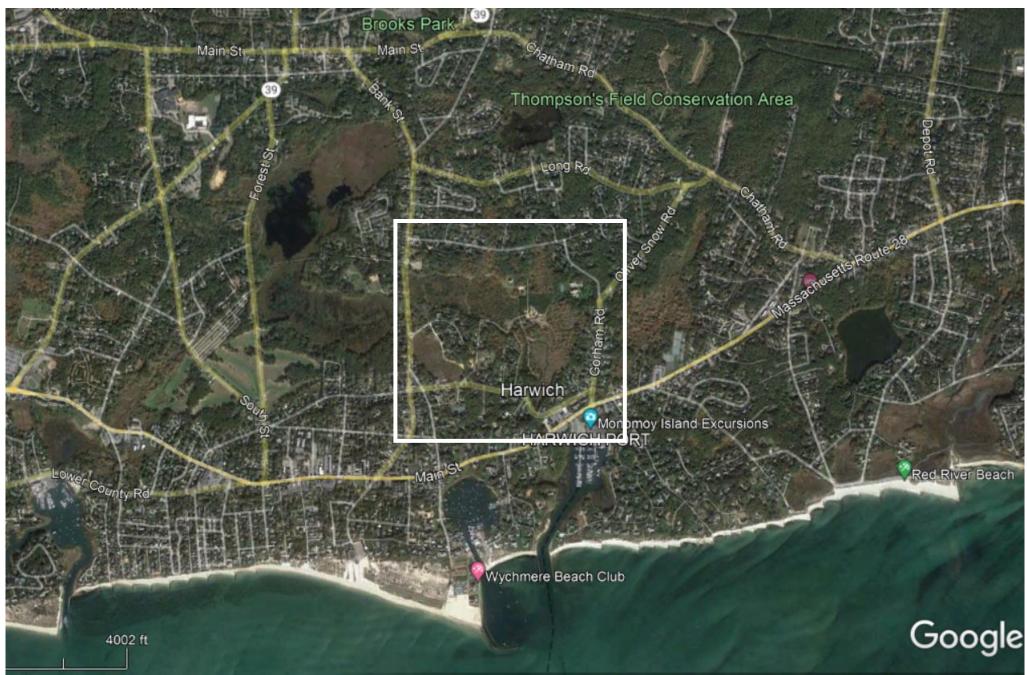


2019 Air Photo and Project Site Location





Project Team

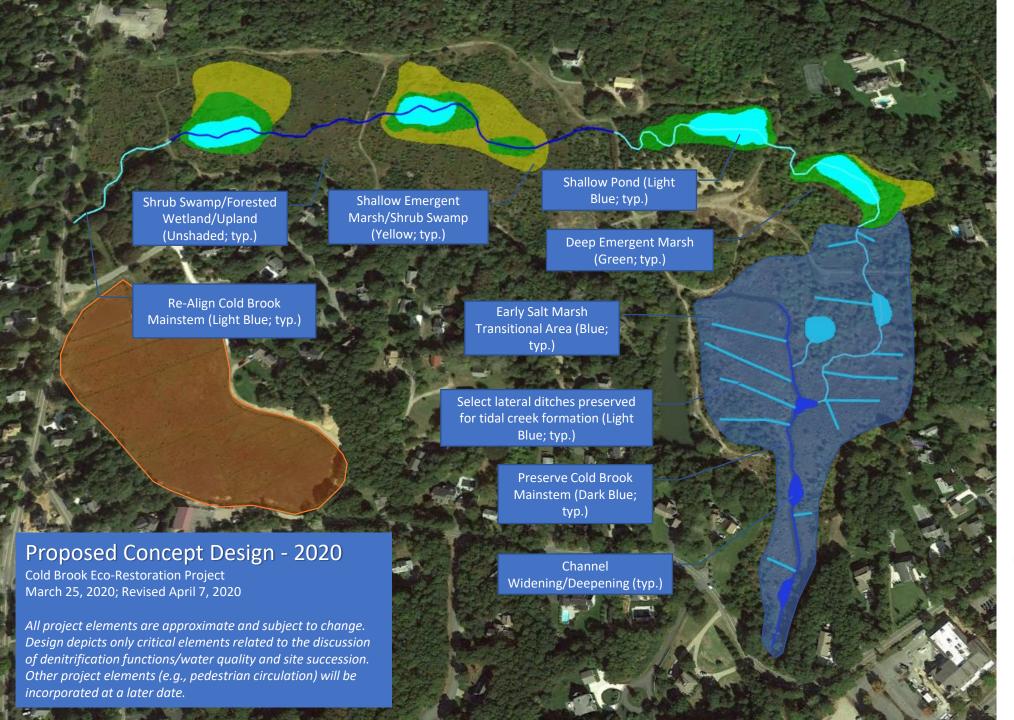
- Town of Harwich
- Harwich Conservation Trust (HCT)
- CDM Smith with TMDL Solutions and UMass Dartmouth School of Marine Science and Technology (SMAST)
- Massachusetts Department of Fish and Game, Division of Ecological Restoration (DER) with Inter-Fluve.
- Others

Town's Goal:

Increase nitrogen removal in the Saquatucket Harbor Watershed system via denitrification in a series of open water ponds and nitrogen uptake in a naturally transitioning marshland system.

HCT Goals:

- Nitrogen attenuation
- Ecosystem restoration/recovery
- Recreational opportunities



Community Type Acreage

Salt Marsh: 9.5± ac

Shallow Pond: 2.2± ac

Deep Emergent Marsh: 3.2± ac

Shallow Emergent

Marsh/Shrub Swamp: 3.5± ac

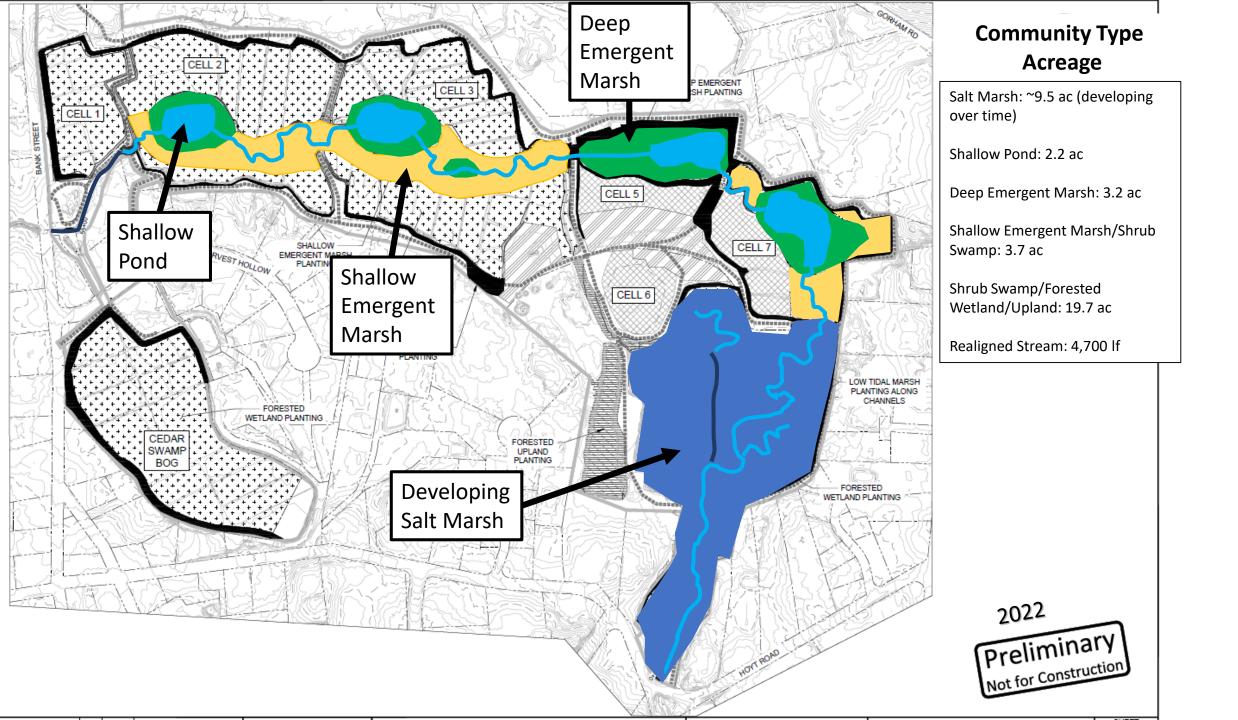
Shrub Swamp/Forested Wetland/Upland: 15± ac

Realigned Stream: 2,700± If









Proposed Community Types

	2020 Concepts	2022 Preliminary Designs
Salt Marsh (acres)	9.5	9.5
Shallow Pond (acres)	2.2	2.2
Deep Emergent Marsh (acres)	3.2	3.2
Shallow Emergent Marsh (acres)	3.5	3.7
Shrub Swamp/Forested Wetland/Upland (acres)	15	19.7
Realigned Stream (linear feet)	2,700	4,700

Proposed Schedule (updated Aug. 2023)

- DER
- Complete final design and permitting Spring 2023
- Bid project for construction Summer 2023
- Construction completion Summer 2024
- Town of Harwich
- Updated baseline monitoring 2020 thru 2022
- Post construction monitoring 2024 thru 2026
- Compliance monitoring report Fall 2026