

FY 2023: Coastal Habitat and Water Quality (CHWQ) Grant Awards

Public Boat Ramp Stormwater Remediation

Funding: \$95,015

Recipient: Association to Preserve Cape Cod

The Association to Preserve Cape Cod (APCC), in partnership with the towns of Bourne, Brewster, Dennis, Falmouth, Harwich, Mashpee, Orleans, and Yarmouth, completed 25 and 75% designs for three stormwater retrofits at public boat ramps across Cape Cod. Public boat ramps have been identified as a common source of nutrient and bacteria pollution due to the direct discharge of stormwater with little or no treatment to remove pollutants. These designs are informed by water quality sampling conducted along the coast of Cape Cod, specifically, APCC's State of the Waters project as well as initial assessment and design work funded through the EPA's Southeast New England Program Grant. This project resulted in a regional stormwater management plan including stormwater remediation designs at priority public boat ramp sites.

Snow Creek Culvert Replacement Final Design

Funding: \$27,000

Recipient: Town of Barnstable

The town of Barnstable conducted modeling and assessment efforts to replace an undersized culvert impacting the Snows Creek estuary. The 36" diameter pipe located at Ocean Street is currently restricting water flow and impacting water quality in the upstream salt pond. This project provides critical data to inform the culvert replacement and complements plans to improve nitrogen treatment at the wastewater treatment facility, which is currently impacting water quality in Snows Creek. This project was informed by previous data collection and design work conducted by the town and, once constructed, will restore tidal flow and improve water quality and habitat for fish, birds, and shellfish in the estuary.

Talbot Avenue Stormwater Treatment Vault Replacement

Funding: \$800,000

Recipient: Boston Water and Sewer Commission

The Boston Water and Sewer Commission (BWSC), in partnership with the city of Boston, replaced the existing stormwater treatment vault located at Talbot Avenue with a new vault equipped with a stormwater filtration system. The new system treats for total suspended solids (TSS) and phosphorous for a 122-acre watershed entering Canterbury Brook, which contributes to the Charles River. Water quality monitoring was conducted by Northeastern University and UMass Amherst to measure TSS and phosphorous pre- and post-construction. This project continued the efforts of BWSC and the city of Boston to improve water quality in the Charles River and its tributaries.

Jerusalem Road Stormwater Remediation Project

Funding: \$275,000

Recipient: Town of Fairhaven

The town of Fairhaven constructed two stormwater Best Management Practices (BMPs) at Jerusalem Road to treat for nutrients and bacteria in stormwater runoff entering the Outer New Bedford Fairhaven Harbor. Both a soft and hard-edged bioretention basin were constructed to remediate stormwater

impacts to shellfish habitat in the Harbor. This project built off assessment and design work completed by the Buzzards Bay Stormwater Collaborative (BBSC), a network of municipalities in the Buzzards Bay watershed supported by the Buzzards Bay National Estuary Program (NEP) that are working towards improving stormwater treatment in the watershed.

Elm Street BMP Implementation, Jones River, Kingston, MA

Funding: \$665,000

Recipient: Town of Kingston

The town of Kingston constructed stormwater Best Management Practices (BMPs) along Elm Street to treat stormwater runoff for nutrients and bacteria entering the Jones River. These practices will improve water quality for shellfish habitat and recreational use in the Jones River and Kingston Bay. In addition to the BMP implementation, the town developed a habitat restoration plan for the Jones River estuary through data gathering, collection, and stakeholder engagement efforts. The stormwater BMP construction built off assessment and design work previously funded by CZM, and the habitat restoration planning efforts show the town's commitment to improving habitat and water quality in the Jones River and Kingston Bay.

Implementation of multiple, cost-efficient infiltration trenches to address nutrient impairment negatively impacting anadromous fish

Funding: \$100,868

Recipient: City of Melrose

The city of Melrose, in partnership with the Mystic River Watershed Association (MyRWA), constructed 15 stormwater street trenches to treat stormwater runoff entering the Malden River. The Malden River is a tributary to the Mystic River, which provides habitat for one of the largest migratory river herring runs in Massachusetts. This project built off previous efforts by municipalities in this region working with MyRWA to reduce phosphorous pollution entering the Mystic River.

Rock Island Cove Marsh Conservation Planning

Funding: \$44,662

Recipient: City of Quincy

The city of Quincy conducted an assessment of the Rock Island Cove salt marsh complex in order to identify stressors as well as current and future threats to the resiliency and health of the salt marsh habitat. The assessment included tasks such as desktop geospatial analysis, field data collection, and outreach to key stakeholders and land managers to identify threats and opportunities to address these threats. The assessment identified priority projects that will provide the greatest benefit to salt marsh habitat as well as conceptual level restoration plans for multiple projects.

Yarmouth Comprehensive Stormwater Management Assessment

Funding: \$82,257

Recipient: Town of Yarmouth

The town of Yarmouth, in partnership with the Association to Preserve Cape Cod (APCC), completed a comprehensive stormwater assessment of the area of the town south of Route 6 to identify and prioritize potential stormwater retrofit sites. The assessment prioritized areas that will benefit impaired waters, fish, shellfish, recreational areas, and Environmental Justice communities. The assessment

resulted in 10% concept designs for stormwater Best Management Practices (BMPs) in the assessment area. This project complemented work funded by previous CZM grants in the town and continues the town of Yarmouth's commitment to improving water quality through stormwater remediation.