

Ecological Restoration Master Contract

Coastal Resource Assessment, Modeling, Engineering, and Design

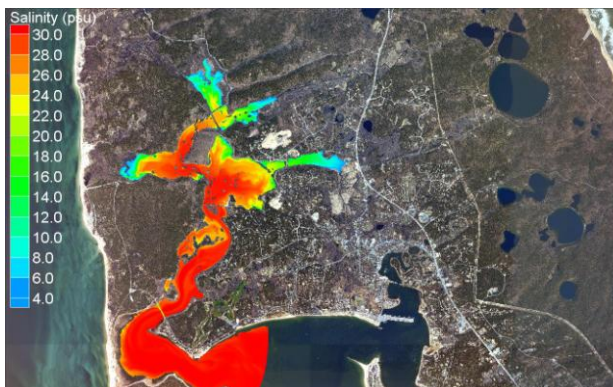
Project Characteristics:

- *Data collection and analysis (water surface elevation/tide, salinity, bathymetry, RTK-GPS marsh surveys)*
- *Analytical and numerical modeling (hydrodynamic, salinity, water quality, sediment transport)*
- *Literature and modeling peer reviews*
- *Evaluation of engineering alternatives, including complex flow control structures*
- *Engineering design support*
- *Post-restoration monitoring and adaptive management*



Woods Hole Group has been a contractor to the Massachusetts Division of Ecological Restoration (DER), previously MWRP, since 2007. As a Specialty Contractor, the Company provides a range of services, including data collection and analysis, multidisciplinary physical, chemical and biological evaluations, analytical and numerical model applications, and design work to restore the form and function of ecological habitats.

Project assignments often are focused on restoring salt water tidal flow to wetlands restricted over time by human interferences. Woods Hole Group applies the most appropriate tools for each site, including commercially-available models, shareware, and techniques developed in-house. Unique capabilities are offered to simulate the potential effectiveness of flow control structures (e.g., weirs, tide gates, duckbills, etc.). Evaluations include estuary/wetland hydrodynamics, along with coastal process involving waves, sediment transport, and shoreline/geomorphic change.



10-082 DER MSA

Representative projects supported include:

- Town Neck Creek marsh restoration and flood improvements
- Castle Neck River drainage improvements
- Dermarest Lloyd Park/Georges Pond tidal restoration
- Freemans Pond culvert improvements
- Mayo Creek flow control structure modifications
- Sagamore Marsh hydraulic study
- Ballard Street Marsh restoration and flood management design
- Herring River restoration and dike design

Woods Hole Group also often works cooperatively with DER staff on projects involving multiple stakeholders, such as National Park Service, US Fish & Wildlife Service, NOAA, and local municipalities. Donations also have been made by Woods Hole Group on Corporate Wetland Restoration Partnership (CWRP) projects in collaboration with DER, including the Crescent Marsh restoration project in Saugus, MA.

Location: Massachusetts
 Client: Division of Ecological Restoration
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