

PROJECT APPLICANT: NYS Center of Clean Water Technology at SBU

PROJECT TITLE: Development and Implementation of a Sustainable and Comprehensive Watershed Management and Remediation Plan for Mecox Bay

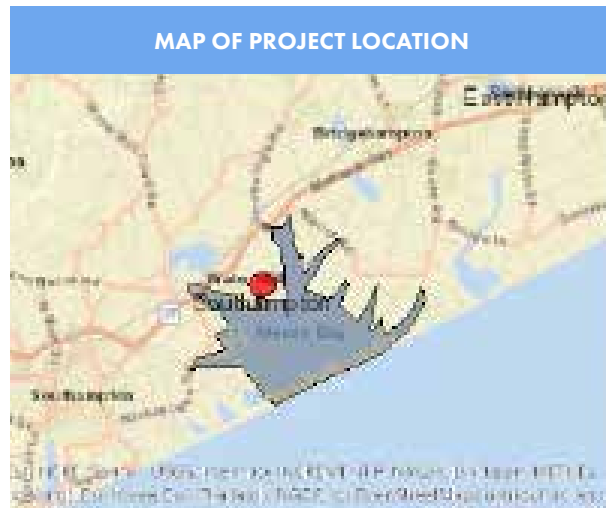
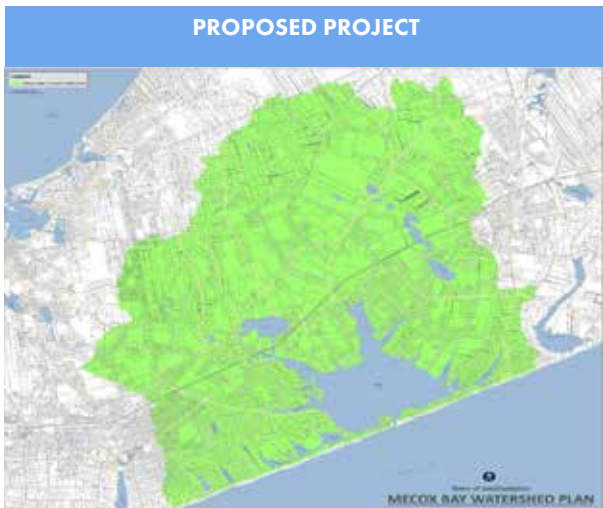
PROJECT TYPE: Wastewater Treatment Projects

SCALE: Neighborhood/Watershed

APPROACH: Reduction, Remediation

DESCRIPTION:

The NYS Center for Clean Water Technology (CCWT) will team up with Stony Brook’s School of Atmospheric Science (SOMAS) and the Mecox Bay Conservancy (MBC) to undertake a program to determine where the main source(s) of nitrogen contamination in Mecox Bay originate. A detailed watershed characterization of all nitrogen inputs into the Mecox Bay surface water system is lacking, but is an important tool to determine where corrective actions should be focused. This would also be important for informing future funding decisions related to proposed mitigation. The watershed-wide Mecox Bay study would evaluate bay water, groundwater, and stormwater run-off samples for concentrations of various contaminants, as well as model the contributions of wastewater, residential fertilizer, agricultural fertilizer, and other sources, pinpointing the relative contribution of all sources of the contamination. The study would be combined with outreach aimed at reducing known and potential sources of contamination. A watershed manager will focus on homes with the largest impact on the Bay who have yet to convert their sanitary systems to nitrogen reducing I/A systems. The team will also evaluate current and past I/A sanitary system installations and evaluate additional measures needed to increase participation. Another objective is to identify opportunities for shoreline-based mitigation approaches and develop a stakeholder-supported watershed management plan that identifies the most effective and actionable remediation approaches. This collective approach will begin to mitigate nitrogen loads from septic systems and other sources in the Mecox Bay area.



REQUESTED AMOUNT: \$ 284,405.00