

**PROJECT APPLICANT:** **Stony Brook University**

**PROJECT TITLE:** **St John’s Episcopal Church  
Constructed Wetland Treatment System**

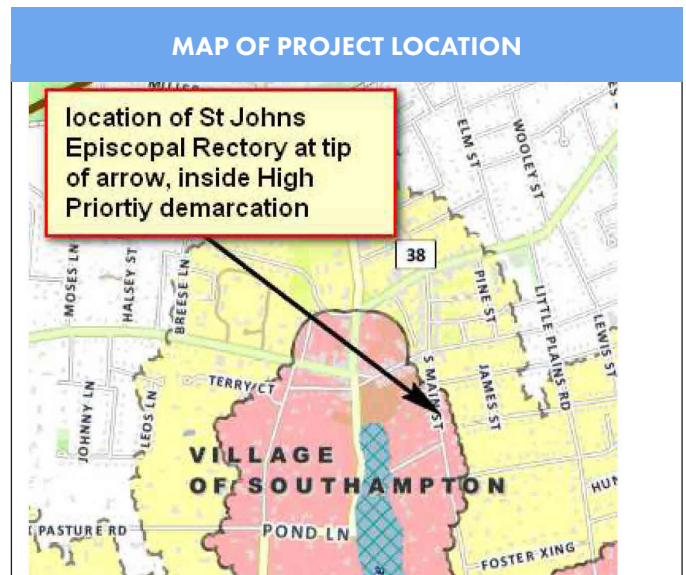
**PROJECT TYPE:** **Wastewater Treatment Improvement Project**

**SCALE:** Neighborhood/Watershed

**APPROACH:** Reduction

**DESCRIPTION:**

The St. John’s Episcopal Church in Southampton is seeking funding to replace an old cesspool for their Church and Parish Hall with a new Constructed Wetland Treatment System (CWTS). CWTS consist of a septic tank, a recirculating wetland underlain by a gravel bed, and a denitrifying sand/ woodchip biofilter. The Site is within 250 yards of the highly impaired Lake Agawam and looks to reduce the total nitrogen entering the watershed. CWTS have demonstrated the ability to reduce total nitrogen in wastewater from 45-65mg/L to effluent levels of 6-8 mg/L. They are able to handle 2-3 gallons of wastewater per square foot and are perfect for absorbing wastewater flows with large surges of urine which are characteristic of churches and schools. For this project, it is estimated that the amount of nitrogen entering the watershed will be reduced by about 135 pounds/year. The system will be monitored for 2 years post installation to further research and demonstrate the advantages of this type of system.



**REQUESTED AMOUNT: \$ 135,075.00**