WQIP-PROPOSAL SUMMARY SHEET

ROUND 4 - 2021

REDUCTION

PROJECT APPLICANT: **St John's Episcopal Church**

PROJECT TITLE: **Nitrogen Reducing Biofilter for Rectory at St John's Episcopal Church**

PROJECT TYPE: **Wastewater Treatment Improvement/Pollution prevention**

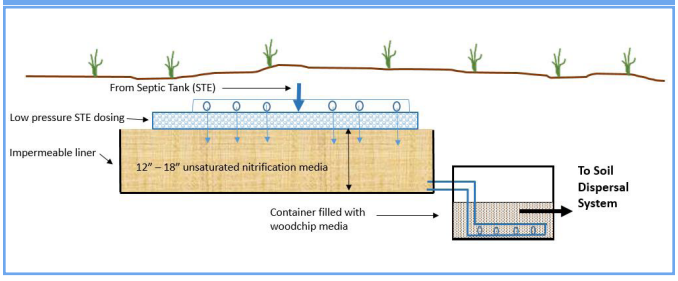
SCALE: Neighborhood/Watershed

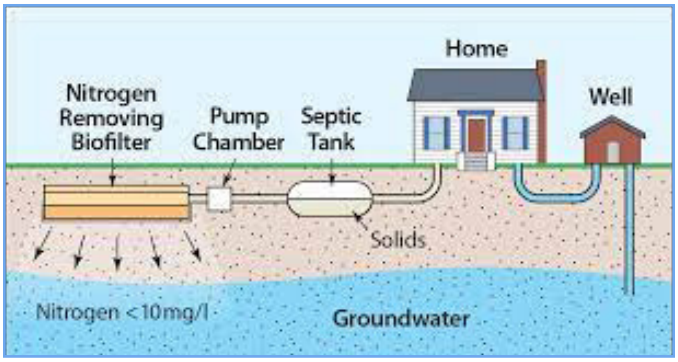
APPROACH: Reduction

DESCRIPTION:

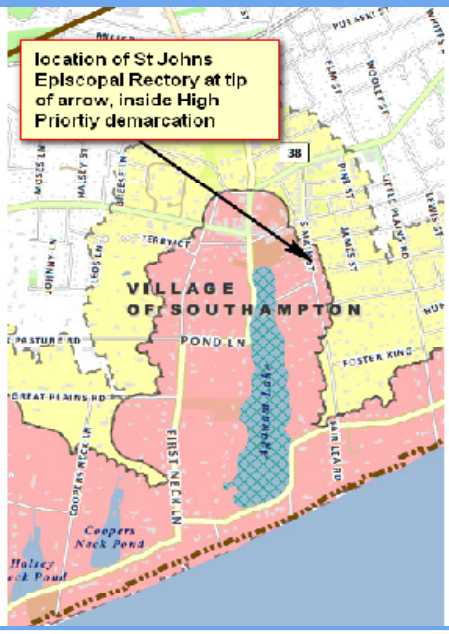
The proposed project is to replace the existing cesspool system at St. John's Episcopal Church rectory with a Nitrogen Reducing Biofilter (NRB) to provide remediation for nitrogen-laden sanitary waste that impacts groundwater flowing into Lake Agawam. The property is located in a High Priority area and this new system is capable of bringing the total nitrogen in the residential wastewater down to 5 mg/L. Lake Agawam is located within the South Shore Estuary Reserve and is on the 2016 NYS Section 303(d) List of Impaired/TMDL waters. Nitrogen loading in this location is predominantly introduced through groundwater contamination from sanitary systems and is the major cause of HABs in the Lake. NRBs, which are undergoing evaluation as an enhancement to Innovative and Alternative Onsite Wastewater Treatment Systems (I/A OWTS), have the capacity to remove 80% of nitrogen from most residential wastewater effluent, which in this case can decrease annual nitrogen leaching into groundwater by 36 lbs. annually.

PROPOSED PROJECT





MAP OF PROJECT LOCATION



REQUESTED AMOUNT: **$ 50,000**