

PROJECT APPLICANT: Village of Southampton

PROJECT TITLE: Lake Agawam Injection Well

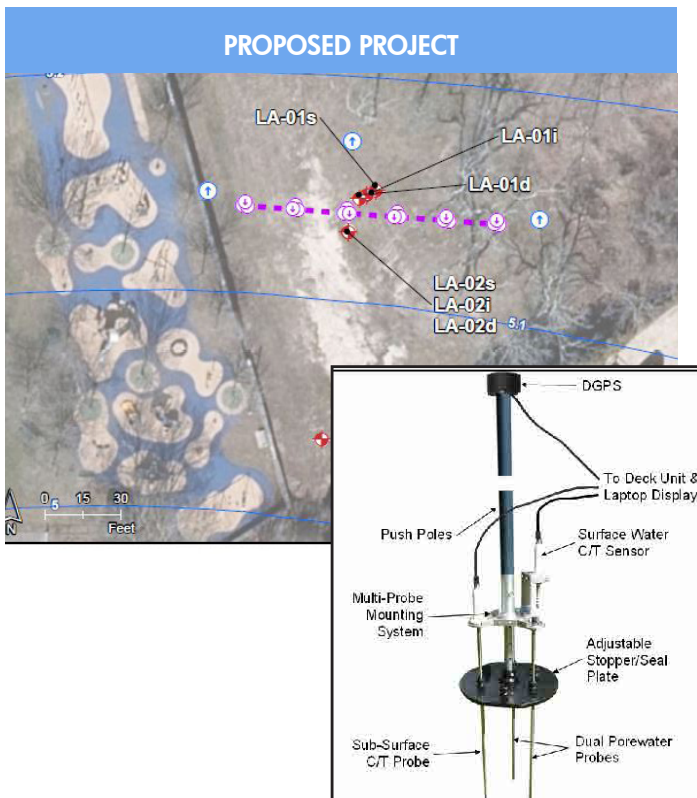
PROJECT TYPE: Non-Point Source Abatement

SCALE: Neighborhood/Watershed

APPROACH: Reduction

DESCRIPTION:

The proposed project is for the installation of a pilot-scale injected permeable reactive barrier (PRB) on the north end of the Lake, to denitrify nitrate in groundwater before it enters Lake Agawam with ongoing 5-year monitoring. A three-phase assessment study by CDM Smith identified a plume of high nitrate emanating from the downtown area. The study proposed the injection well rather than a deep-trenched woodchip barrier as the best approach for mitigation. The injection well results in cost savings and is less disruptive at the ground surface. The injection well is proposed to reduce excess nitrogen that is making its way into Lake Agawam, which is listed as a 303(d) impaired water body which experiences toxic blue-green algae blooms, causing serious public health concerns. Mitigation of nitrogen entering Lake Agawam was identified as the highest priority activity by the NYS DEC Harmful Algal Bloom Action Plan for Lake Agawam.



REQUESTED AMOUNT: \$396,459.00