BSC GROUP

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Nature-Based Solutions Implementation Resource Guide

Nature-based Solution (NbS): Aquatic Algae/Invasive Treatment

Project Number per matrix: **18**

PREREQUISITES

- Obtain approval from Town or City Conservation Commission, landowners/water rights.
- Obtain appropriate permits.
- Test water for contaminants.
- Hire a Licensed Site Professional (LSP) to be available for unexpected hazards.

RECOMMENDED IMPLEMENTATION STEPS

- **Project Planning and Administration**
  - Assess potential water quality and ecological impacts.
  - Plan and fund sustained maintenance approach.
  - Maintain stability through critical mass and coordinated invasive control.
  - Assess bordering threats such as the proximity of established invasive sources.
- **NbS Installation**
  - Evaluate water source and contributing factors, including groundwater monitoring well(s).
  - Control of contributing factors to the extent feasible. These may include a review of Title 5 septic systems. Combined storm sewers and untreated surface drainage from paved areas.
  - Manage information and enforcement of transfer of species between waterways by boats.
  - Treat aquatic invasive plants through species management, aeration, harvesting, or herbicide.
  - Conduct mechanical algae harvesting or chemical management executed by treatment specialists.
  - Introduce compatible control species.
- **Maintenance**
  - Annual follow-up or “as needed” treatments may be required.

NATURE-BASED SOLUTION SPECS

- Typical project size: 1 acre pond.

BUDGET ESTIMATE

- Typical project budget (order of magnitude): N/A
- Use the BSC Group Nature-based Solutions budget tool to develop more detailed concept budgets.

SCHEDULE ESTIMATE

- Pre-construction monitoring of water quality for baseline condition (minimum 1 growing season, preferably multiple growing seasons).
- Treatment time varies.