

Town of Sudbury

Community Preservation Committee

<http://www.sudbury.ma.us>
email: cpc@sudbury.ma.us

PROJECT SUBMISSION FORM

Submitter: Jeff Winston

Submission Date: 10/10/2019

Group or Committee Affiliation (if any): Hop Brook Protection Association Inc.

Submitter's address :

Box 707, Sudbury, MA 01776

Purpose (please select all that apply):

- Open Space
- Community Housing
- Historic
- Recreation

Submitter's email & phone number:

jeff@hopbrook.org C: 508-864-1330/H: 443-2589

Project Manager's email & phone number: As submitter.

Project Name: Project Water Chestnut Remediation

Project Description: Remediation of Water Chestnuts from Hop Brook Pond System

Costs:

Fiscal Year	Total Project Cost	CPC Funds Requested	Other Funding Sources (amount and source)
2021	\$60,000	\$60,000	
2022	\$60,000	\$60,000	
2023	\$60,000	\$60,000	
2024	\$60,000	\$60,000	
2025	\$60,000	\$60,000	
Total	\$300,000	\$300,000	

How does this project meet the General Criteria and Category Specific Criteria for CPC projects (see attached)?

See attached

Does this project fall within the jurisdiction or interest of other Town Boards, Committees or Departments? If so, please list the boards, committees or departments, whether applications and/or presentations have been made, and what input or recommendations have been given.

Approvals from the Conservation Commission and Board of Selectmen will be obtained.

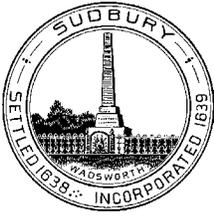
For Community Preservation Committee Use:

Form received on: _____

Project presented to CPC on: _____

Reviewed by: _____

Determination: _____



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Submitter's email & phone number:

Project Manager's email & phone number:

Project Name:

Project Description:

Costs:

Fiscal Year	Total Project Cost	CPC Funds Requested	Other Funding Sources (amount and source)
2021			
2022			
2023			
2024			
2025			
Total			

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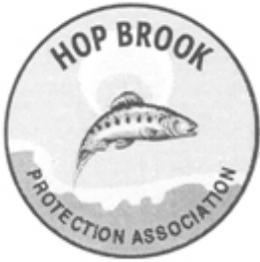
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Determination: _____



HOP BROOK PROTECTION ASSOCIATION

Restoring and Preserving Sudbury's Ponds

Box 707, Sudbury, MA 01776

Attachment to CPC Project Submission Form 10/10/2019

The Sudbury portion of the Hop Brook pond system is a series of three connected ponds with a history of environmental degradation. As a result of prior phosphorus loading, uncontrolled vegetative overgrowth, and stagnation, these lakes have become highly eutrophic. However, the upstream phosphorus source is now controlled, and our most pressing concern is the compounding proliferation of invasive water chestnut. Untreated, this invasive species will effectively kill all indigenous native plants in the ponds in only a few more years. One acre of water chestnut can produce enough seeds to cover 100 acres the following year, and produces over 40 cubic yards of additional undesirable biomass each year.

We previously received a 3-year CPC grant (FY 2019 – FY 2021) to control the water chestnut through harvesting. However, like many other nearby towns, we have concluded that harvesting by itself is ineffective and impractical, and may actually spread other invasives (such as Eurasian milfoil). Further, what beneficial effect it has typically lasts no more than several weeks.

Alternately, we have found that a very effective method of controlling water chestnut is use of environmentally-friendly, rapidly-decaying chemical treatment, applied multiple times annually, in decreasing amounts over a number of years. This is being used successfully in Framingham, Wayland, Concord, Acton, and elsewhere. This treatment would be a key component of a comprehensive multi-modal pond management plan (still being developed) that could restore the ponds to class B recreational standards over time. We are seeking funding for this practical, feasible, proven approach, which *must* be initiated in 2020, or the water chestnut wins.

We can provide documentation of experience in nearby towns when we meet with you. Further, our investigations have found no effective alternatives to treatment. Other approaches (vacuuming, ultrasound) are in only experimental phases, or cannot be scaled up to meet our needs.

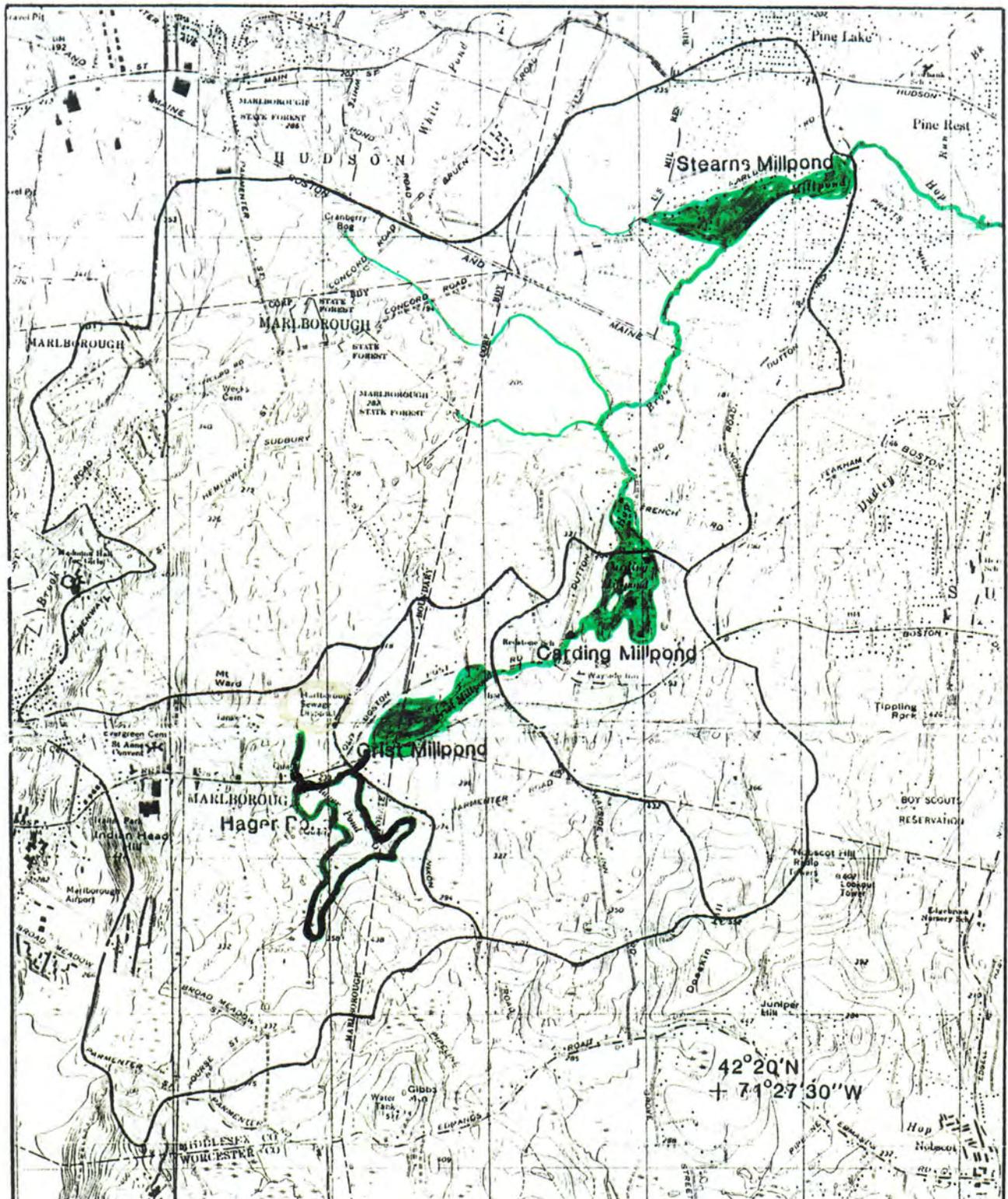
We only recently made the decision to take this approach, and have had very preliminary and informal discussions with the ConComm Coordinator, and a Selectperson, both of whom were supportive. We agreed with the ConComm that more thorough investigation and documentation relative to safety and effectiveness is required before they could consider approval, but they understand the dearth of alternatives and will seriously consider our request. That investigation is our primary focus at this time, and we feel confident that we will address their concerns.

We have also had initial discussions with our most likely vendor (Solitude), who was able to give us good estimates of the cost. The \$60K/year is comparable in price/acre to what we have seen in other towns. Over the years of the grant, the price per acre will rise, but the amount of required treatment should fall. We are soliciting multiple quotes.

The Hop Brook Pond system is an essential part of Sudbury's character and a valuable town asset. Without control and eventual eradication of this invasive species, 80 acres of ponds and wetlands currently used for recreation and wildlife would be turned into a stagnant and unattractive bog.

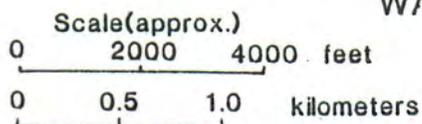
Please give our application serious consideration. We are working on this daily and will have more thorough information about safety, effectiveness, usage and experience in neighboring towns, etc., as well as our pond management plan, when we meet with you. In the meantime, please don't hesitate to contact us if you have any questions.

Note: Like the one we are requesting, the purpose of our existing grant was control and eradication of water chestnuts. However, it is not clear to us whether the prior application (attached) was written broadly enough to cover chemical treatment. If the prior grant is still usable, you may reduce our first year request in this grant by \$32K. If not, we consent to reverting the remaining funds from our prior grant, as we have no plans for further harvesting. We defer to the CPC for direction here.



HOP BROCK POND STUDY

WATERSHED AREAS



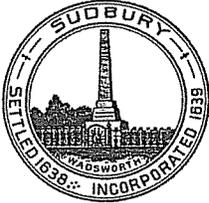
Source: USGS 7.5' Topoquads
 (Framingham, Hudson, Marlboro, Maynard)

BEFORE
TREATMENT



SEVERAL MONTHS
AFTER TREATMENT





Town of Sudbury

Community Preservation Committee

RECEIVED
NOV 06 2017

BY: _____
<http://www.sudbury.ma.us>
email: cpc@sudbury.ma.us

PROJECT SUBMISSION FORM

Submitter: Ursula Lyons

Submission Date: Nov. 6, 2017

Group or Committee Affiliation (if any):

V-Pres. Hop Brook Protection Assn.

Submitter's address and phone number:

157 Wayside Inn Rd
Sudbury, MA 01776

Purpose (please select all that apply):

Open Space

Community Housing

Historic

Recreation / Preservation
of Hop Brook
Ponds +
Streams

Submitter's email address:

ulyons@yahoo.com

Project Name:

Pond Harvesting

Project Description:

Removal of Water Chestnuts
from Hop Brook Ponds: (Grist Mill, Carding
Mill, Stearns Mill)
Ponds

Costs:

Fiscal Year	Total Project Cost	CPC Funds Requested	Other Funding Sources (amount and source)
2019	\$45,000 for 3 years	\$15,000	HBPA Funds - (variable)
2020		\$15,000	
2021		\$15,000	
2022			
2023			
Total			

How does this project meet the General Criteria and Category Specific Criteria for CPC projects (see attached)?

It is a Renewal of Applications
for Funding for Harvesting Ponds'
invasive weeds

Does this project fall within the jurisdiction or interest of other Town Boards, Committees or Departments? If so, please list the boards, committees or departments, whether applications and/or presentations have been made, and what input or recommendations have been given.

This project has been previously approved
by Conservation Commission & Town Meetings,

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Reviewed by: _____

Determination: _____