

1. Project Title

Aquatic herbicide control of water chestnut in Finger Lakes PRISM Region.

2. Project Description

In summer, the certified commercial pesticide applicator (defined herein as the “Contractor”) will perform herbicide treatment of water chestnut in Red Creek, located in Wolcott, NY (approx. 7 acres) and Seneca River/Barge Canal adjacent to Howland Island Wildlife Management Area, Conquest, NY (approx. 45 acres).

3. Project Term

Start June 25, 2018 End October 31, 2018

4. Project Location

Red Creek, Wolcott, Wayne County and Seneca River/Barge Canal, Conquest, Port Byron, and Savannah, Cayuga County. See maps attached.

5. Qualifications and Experience Needed

Contractor must be certified as a commercial pesticide applicator in New York State pursuant to Part 325 of Title 6 of New York Code of Rules and Regulations (6 NYCRR Part 325). The Contractor must comply with all obligations pursuant to 6 NY CRR Part 325 during the Project Term. Previous experience with water chestnut control is desired.

Contractor will generate and submit the Article 15 Title 3 of the Environmental Conservation Law Part 327 of 6 NYCRR permit application, and Article 24 Freshwater Wetlands Part 663 Title 23 of Article 71 Environmental Conservation Law permit application for the project. Contractor also will evaluate and apply for, if deemed necessary, coverage under the General Permit for Point Source Discharges to Surface Waters of New York State from Pesticide Applications. Contractor shall comply with all permits obtained for the Project.

6. Project Need/Background

Water chestnut (*Trapa natans*) is a highly prolific invasive species from Eurasia that is invading waterbodies in select locations of the Finger Lakes and Great Lakes region. An annual plant, water chestnut seed must be removed before it drops in a given year. Removing the plants and seeds reduces the population potential in subsequent years given the exponential growth rate for the plant. Unfortunately, seeds from long-standing infestations have the potential to remain viable for up to ten years. Due to the magnitude of water chestnut populations at the two sites listed in (4) above, hand-pulling is not feasible.

Hobart and William Smith Colleges intends to contract with a certified aquatic herbicide applicator (i.e., Contractor) to conduct control of water chestnut in Red Creek and Seneca

River/Barge Canal using an approved aquatic herbicide, specifically Weedar 64 or equivalent herbicide with 2,4-D as the active ingredient.

The Contractor shall be responsible for the purchase, transport and use of Weedar 64 or equivalent herbicide with 2,4-D as the active ingredient for the Project in compliance with all applicable laws and regulations. This shall include, but is not limited to the quantity, dosage, rate and location of its application.

Native plant species in the treatment area in Red Creek include: *Lemna minor*, *Lemna trisulca*, *Spirodela polyrrhiza*, and *Ceratophyllum demersum*.

Native plant species in the treatment area in Seneca River/Barge Canal include: *Lemna minor*, *Lemna trisulca*, *Spirodela polyrrhiza*, *Nymphaea odorata*, *Potamogeton zosteriformis*, *Stuckenia pectinata*, and *Ceratophyllum demersum*.

These plants species are threatened by the spread of water chestnut that can outcompete them for light and nutrients. If left untreated, water chestnut growth can negatively impact or even eliminate populations of native plants from the area.

The infestations were delineated in Red Creek and in the Seneca River/Barge Canal in the summer of 2016 by the FLI Water Chestnut Strike Team. Red Creek flows into Lake Ontario while the Seneca River flows to the Oswego River and then proceeds to Lake Ontario. Connected waterways are especially susceptible to water chestnut infestation.

7. Project Methodology/Technical Approach

- Contractor will file the Article 15 Title 3 of the Environmental Conservation Law Part 327 of 6 NYCRR permit application, Article 24 Freshwater Wetlands Part 663 Title 23 of Article 71 Environmental Conservation Law permit application, and apply for coverage under the General Permit for Point Source Discharges to Surface Waters of New York State from Pesticide Applications, if necessary, for the project.

- Contractor must be a certified commercial pesticide applicator in New York State pursuant to Part 325 of Title 6 of New York Code of Rules and Regulations (6 NYCRR Part 325) prior to the start of the Project.

- Contractor will purchase Weedar 64 or equivalent herbicide with 2,4-D as the active ingredient and arrange for its proper handling, transport and delivery to the sites. Contractor will properly secure the product from tampering or theft.

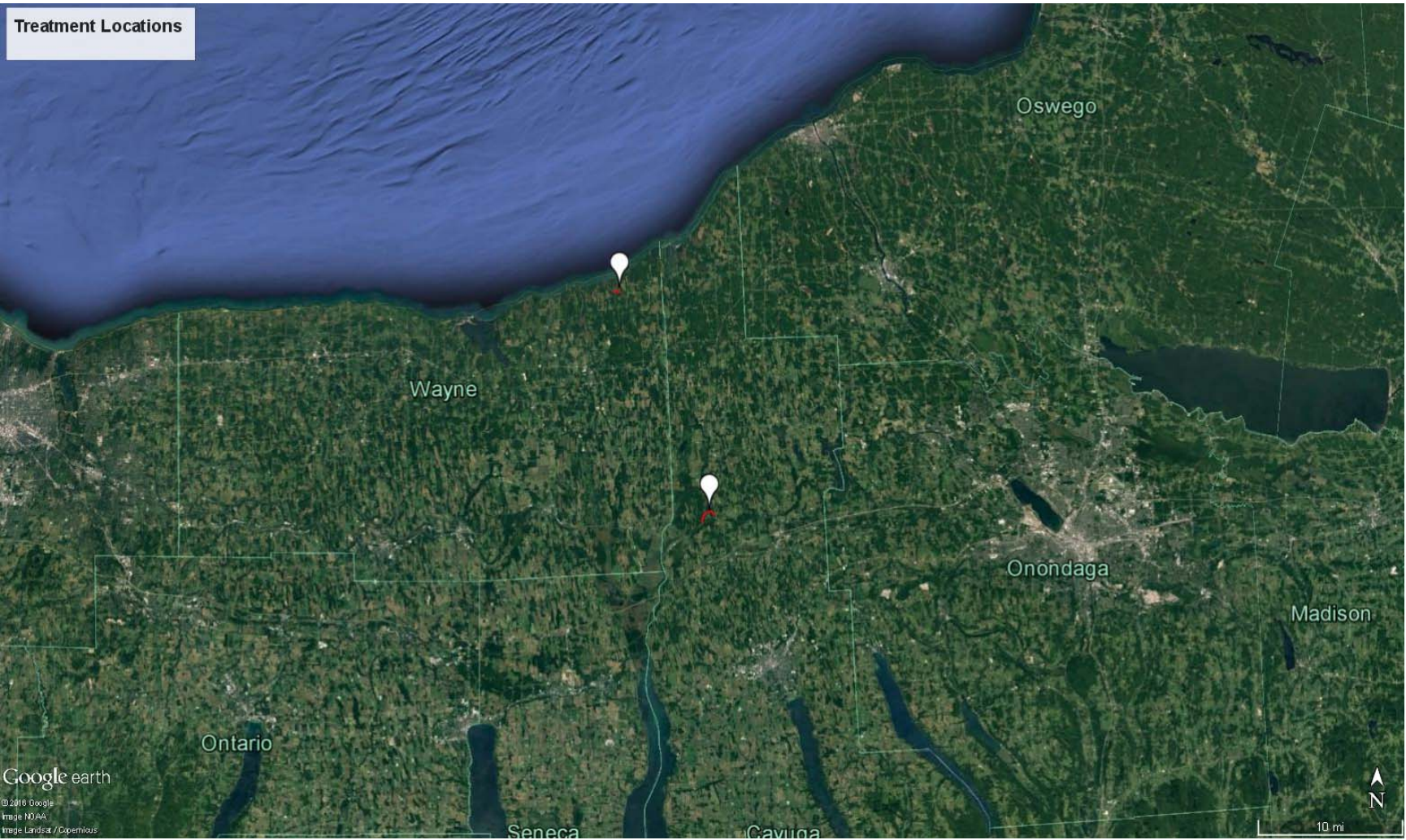
- During summer the contractor will provide all required equipment for the boom-mounted spray method to apply the herbicide Weedar 64 or equivalent herbicide with 2,4-D as the active ingredient onto water chestnut mats at both sites. Prior to herbicide release, all adjacent landowners will be contacted by personnel from the FLI regarding

the treatment and signage posted as required under Article 15 Part 327. Contractor will confirm all notices have been provided prior to its application of the herbicide. The application dosage must be in accordance with the herbicide label in New York State.

- Contractor will properly remove from the sites any herbicide that was not used for the Project.

-To prevent contamination by and spread of invasive and undesirable species, ALL equipment or vehicles to be used at the sites will be cleaned of all visible soil or plant matter before it is brought to the site and prior to leaving the site.

- The contractor will submit a final report including all data from the herbicide treatment by October 31, 2018 with an invoice for work conducted.



Request for Bids: *Herbicide Control of Water Chestnut in Finger Lakes PRISM Region*
Scope of Work



