

Cayuga Lake, Aurora, NY Hydrilla Control Demonstration Project

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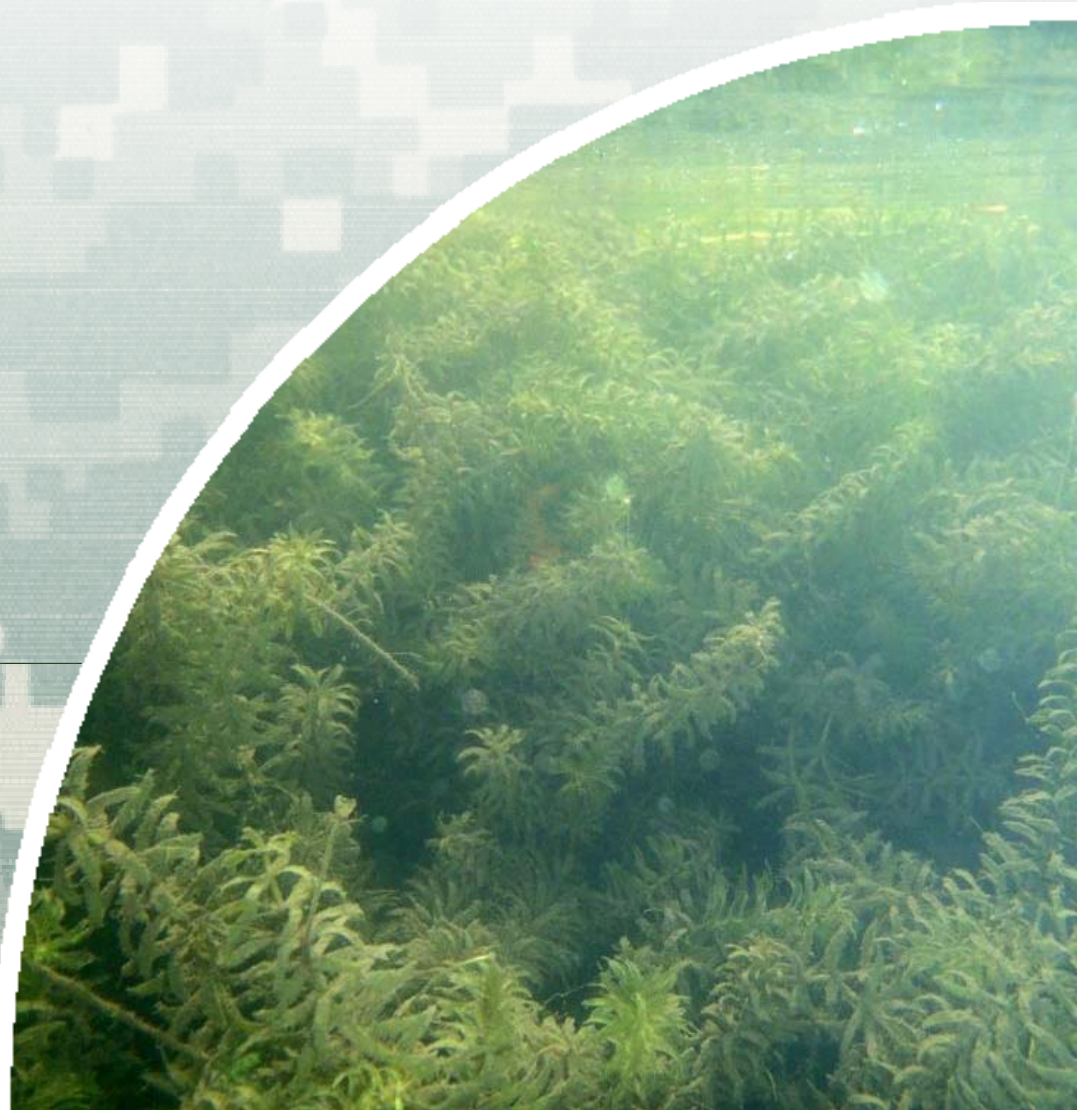
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US Army Corps of Engineers
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Agenda

- What is hydrilla
- Project area
- Proposed plan
- Water use restrictions
- Next steps
- Questions and comments



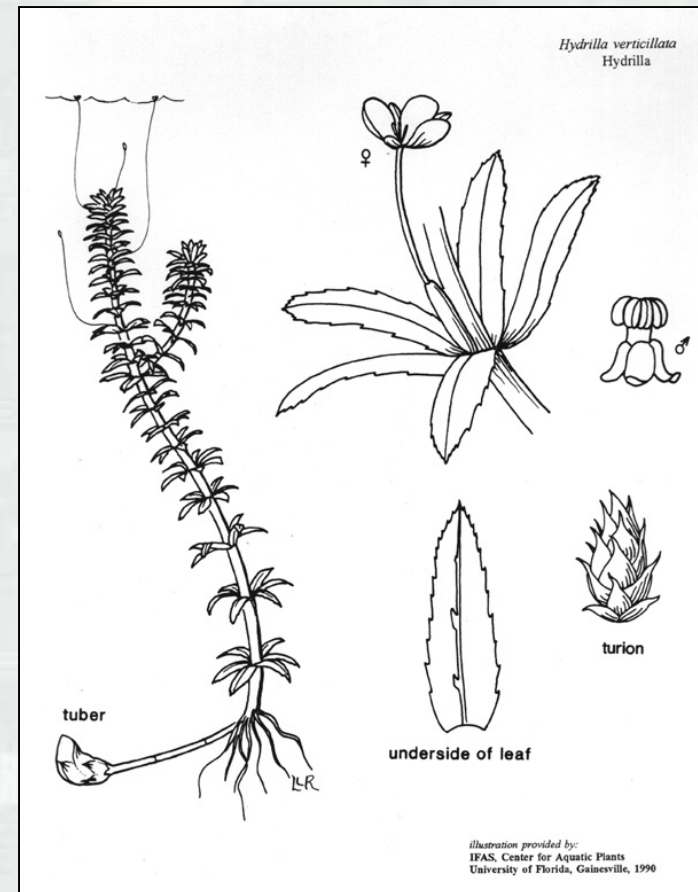
What's Important

1. Public safety – we're proposing responsible use of a well understood herbicides
2. Protect and restore the Great Lakes/Finger Lakes and the associated ecological and economic benefits
3. Significantly reduce the risk of hydrilla spreading from the Aurora site and potentially eradicate it in the project area



Hydrilla verticillata

- Highly invasive plant from SE Asia
- How did it get here?
- Poses ecological and economic threats to infested waterways



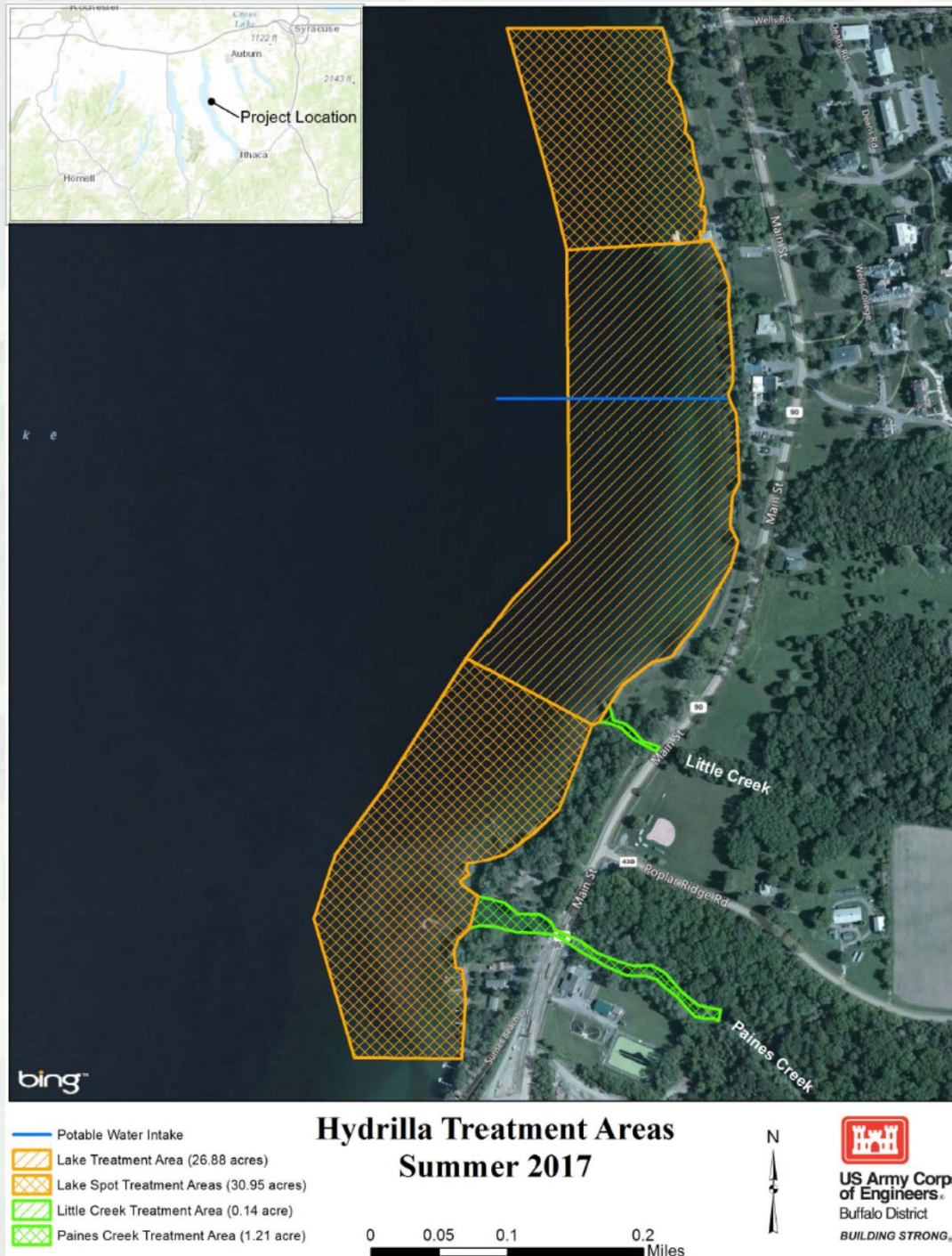


(Erie Canal Website: <http://www.eriecanal.org/index.html>)

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Project Area

- Main lake treatment block
- Adjacent areas for potential spot treatment
- Little and Paines Creeks



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Proposed Plan

- Main lake treatment: 7 treatments of Sonar® H4C (fluridone) at a rate of 20 ppb each, treatments will be 7-14 days apart
- Potential spot treatments in adjacent areas: ½ - 1 acre blocks of Komeen® Crystal (copper) at 1 ppm as needed
- Little and Paines Creeks: 7 treatments of Sonar® H4C (fluridone) at a rate of 20 ppb each, treatments will be 7-14 days apart; 8 hr. drip application or Nautique® (copper) liquid at 1 ppm



Water Monitoring

Drinking Water: daily or near daily raw and finished samples to be coordinated with Cayuga County Health Dept. and water utility for duration of treatment and tested at an accredited lab

Lake Water: monitored at 4 sites, tested weekly for four weeks, and then bi-weekly for duration of treatment



Water Use Restrictions

Product	Irrigation – Row crops, turf, trees or plants	Irrigation – Newly seeded areas, including overseeded golf course greens	Irrigation – Nursery, Greenhouse, Hydroponics	Drinking, culinary or food processing purposes
Nautique	None	None	None	< 200 ppb*
Komeen Crystal	None	None	None	< 200 ppb*
Sonar H4C	7 days	Fastest required	< 1ppb	< 50 ppb*

* Applications of these products will be below the listed thresholds.



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Fluridone (Sonar® H4C) FAQs

- Systemic herbicide that disrupts photosynthesis
- Breaks down from light and microbial action
- No restrictions with respect to drinking water, fishing, swimming, livestock/pet consumption at the application rate that will be used
- Tobacco, tomatoes, peppers and other members of the Solanaceae Family (Nightshade) and newly seeded crops and grasses should not be irrigated if water contains greater than 5 ppb fluridone



Next Steps

- Public and Agency review of Environmental Assessment (NEPA)
- 21 day notification to riparian owners and users
- Additional print media notification of treatment and posting of public access points
- Target date for first herbicide application week of July 10th or 17th
- Plant growth and water monitoring throughout the season



Additional Resources

- New York Invasive Species Information:
<http://www.nyis.info/>, select hydrilla from the aquatic plants tab
- Cornell Cooperative Extension/Tompkins County:
www.stophydrilla.org, includes FAQs regarding fluridone
- Center for Aquatic and Invasive Plants:
<http://plants.ifas.ufl.edu/node/183>
- SOLitude Lake Management:
<http://www.solitudelakemanagement.com/product-labels-new-york-2017>

