

Coventry Lake

Hydrilla Management Update

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January 31, 2018

NORTHEAST AQUATIC RESEARCH



SOLITUDE
LAKE MANAGEMENT

Restoring Balance. Enhancing Beauty.

Project Timeline

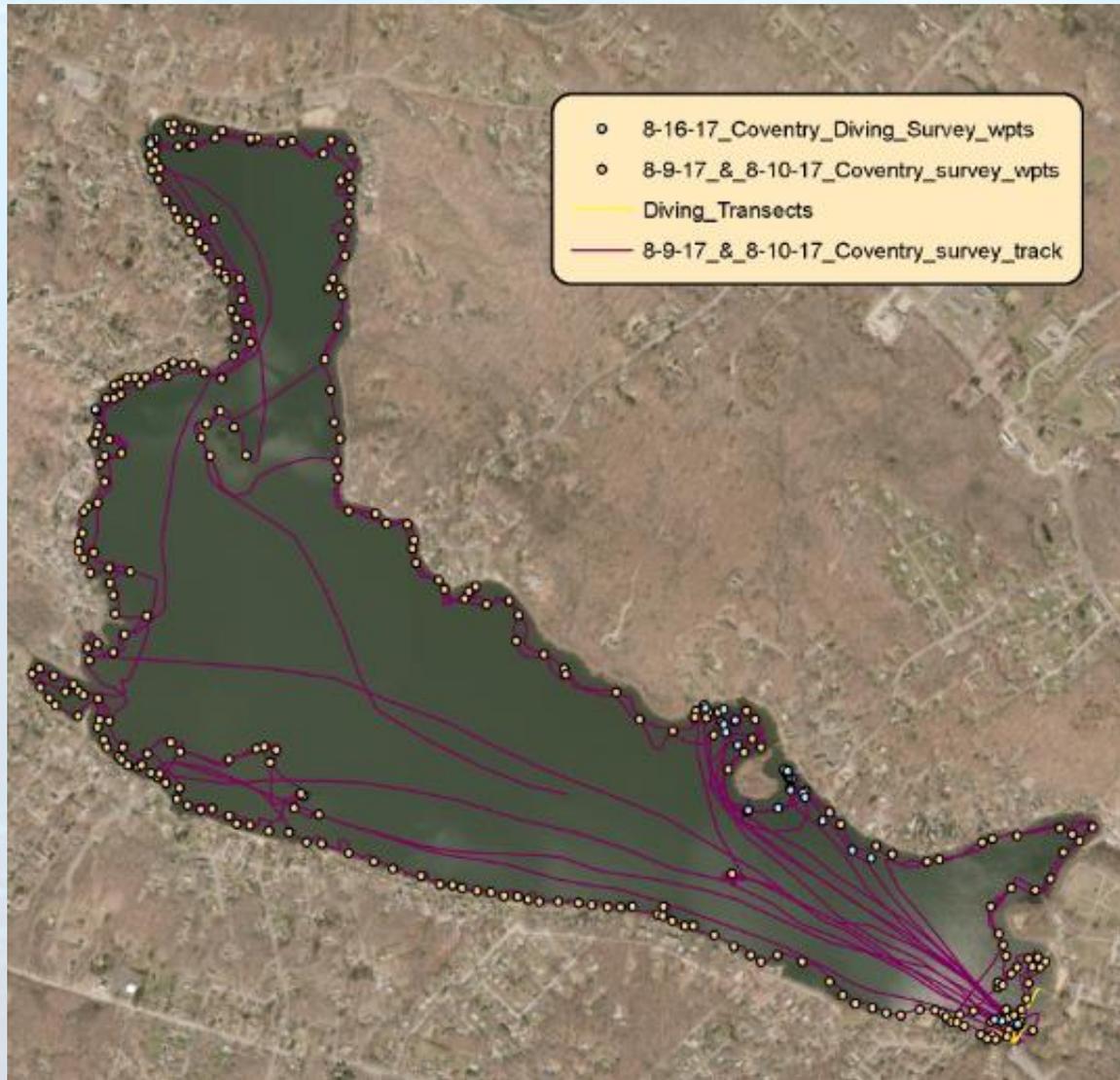
2015/2016

- September 2015 – *Hydrilla* fragments discovered
- October/November 2015 – Detailed survey conducted by NEAR & SOLitude
- February 2016 – Survey & Management Plan Report finalized
- July 2016 – *Hydrilla* Survey conducted by NEAR – no new areas found, but expansion of growth in existing area.
- August 10th & 11th – Treatment with Aquathol-K Herbicide
- September 8th – 2nd Lake Wide Survey

2017

- August 9th, 10th, 16th – Lake Wide & SCUBA Survey
- September 28th – Treatment with Aquathol –K & Aquathol Super K
- October – Post-Treatment & 2nd Lake Wide Survey

August 2017 Survey Details



Detail of August 2017 SCUBA Survey Tracks



Current Hydrilla Locations in Coventry Lake



<p>Coventry Lake Coventry, CT</p> <p>2017 Potential Management Areas</p>			<p>Legend:</p> <p> Herbicide Treatment Areas</p> <p> Hydrilla Locations</p> <p>Hydrilla locations outside of treatment areas will be addressed with bottom barrier</p>	<p>N</p>	
<p>FIGURE:</p> <p>1</p>	<p>SURVEY DATE:</p> <p>August 2017</p>	<p>MAP DATE:</p> <p>9/1/17</p>			
<p>0 1,000 2,000 3,000 Feet</p>					

Searching for Hydrilla involved checking all Elodea beds





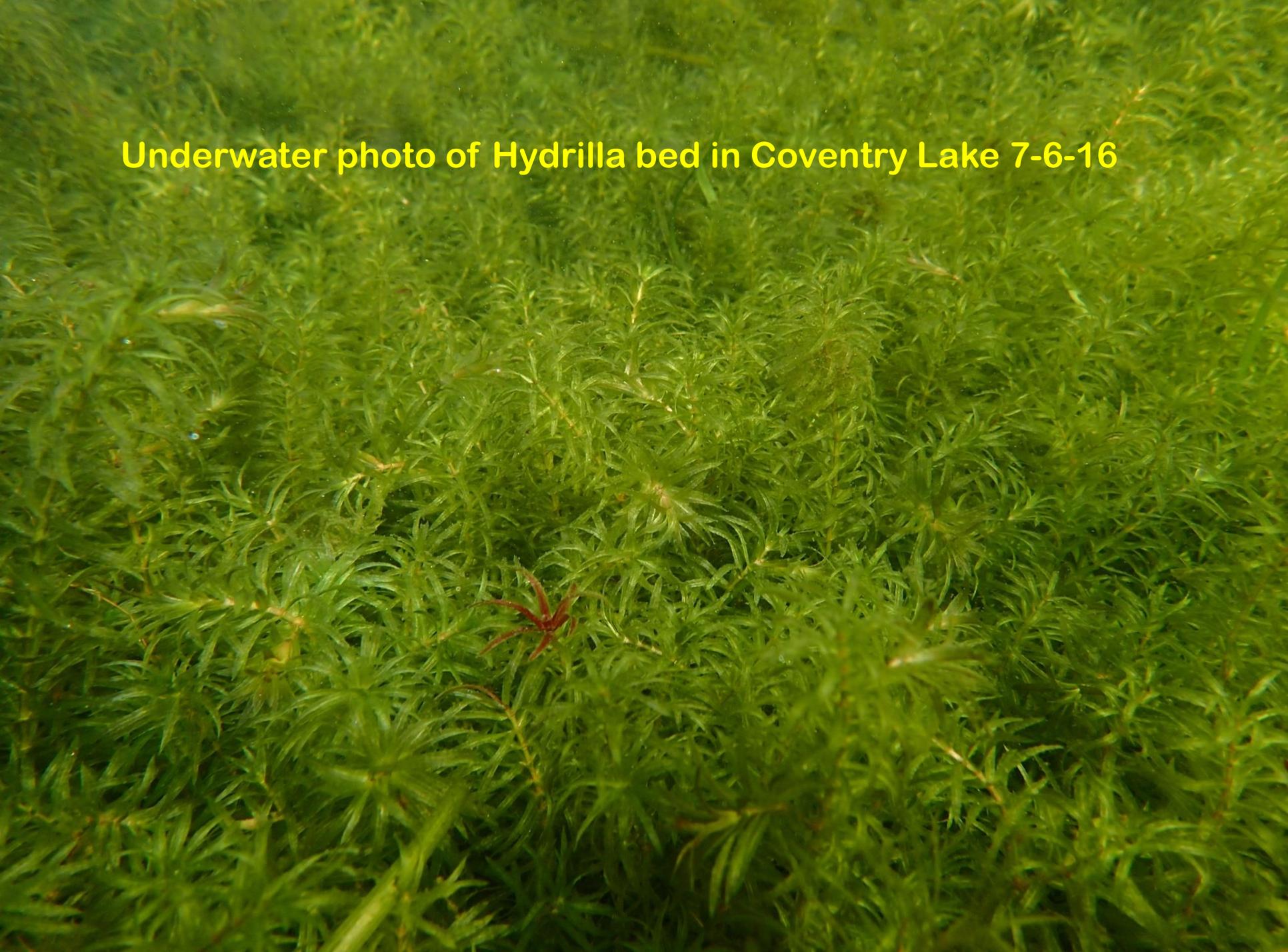
Elodea

Hydrilla

Hydrilla plant showing tuber and nodal roots



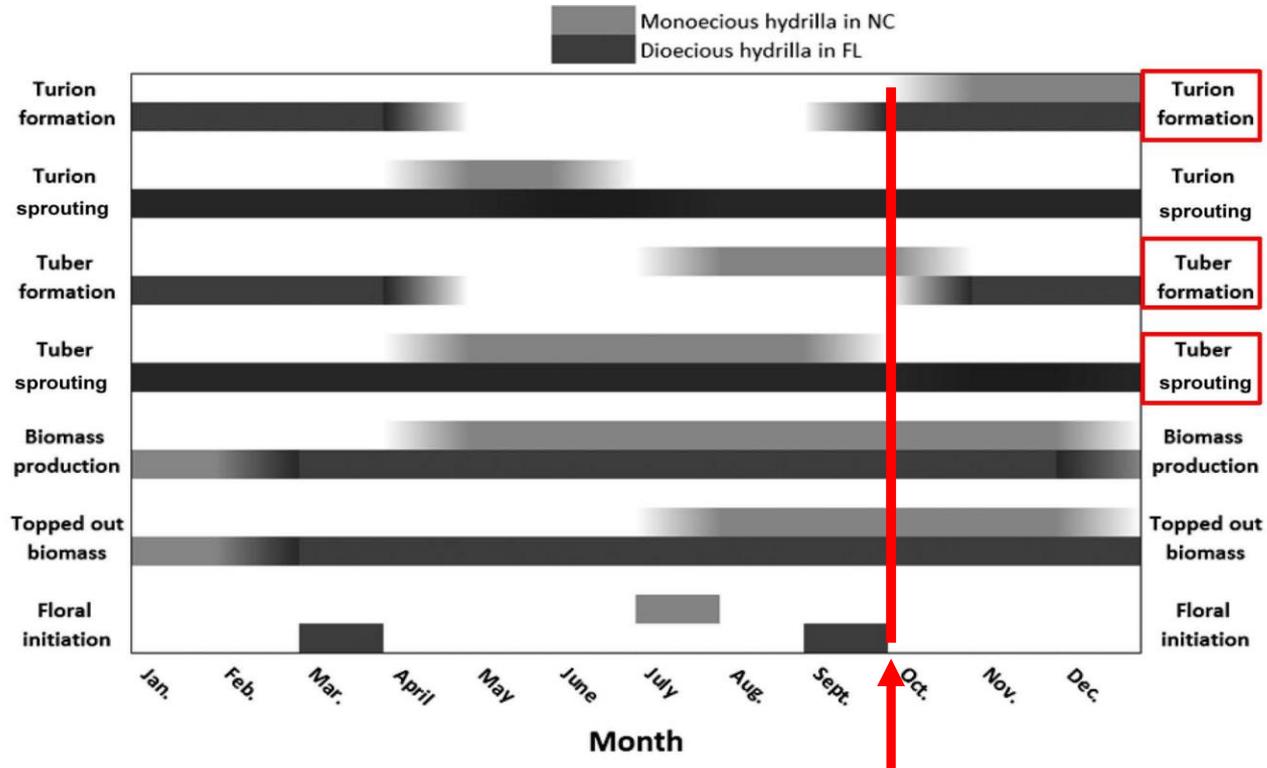
Underwater photo of Hydrilla bed in Coventry Lake 7-6-16



TREATMENT GOAL AND PLAN

- Minimize *Hydrilla* biomass
- Prevent additional spread of *Hydrilla*
- Conduct treatment after a majority of the tubers have sprouted, but before substantial tuber and turion production occurs.
- Preventing tuber and turion production (reproductive structures) will reduce the infestation over time.

TREATMENT GOAL AND PLAN



Further North sprouting is likely delayed.

Sarah True-Meadows, et. al., 2016. Monoecious hydrilla—A review of the literature, J. Aquat. Plant Manage. 54: 1–11

TREATMENT GOAL AND PLAN

- Perform treatment with higher dose of endothall & using both liquid and granular formulations.
- Will provide more rapid & effective control of the *Hydrilla*. Will also be better suited to smaller, isolated treatment areas.
- Address small localized areas of infestation with benthic barriers.

Current Hydrilla Locations in Coventry Lake

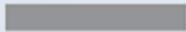


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Questions?

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