



Desired Outcomes

Contain, control, manage, eradicate, rehabilitate, and restore two high profile AIS sites:

- Yellow Iris along the shoreline at the Boom Lake boat landing, Hodag Park, Rhinelander.
- Phragmites site located at the bottom of a highway drainage ditch.
- Native plants used at both sites were grown by Oneida County Land & Water.



Seed Sowing Party

- Blue Flag Iris
- Joe-pye Weed
- Blue Vervain
- SwampMilkweed
- Cord Grass



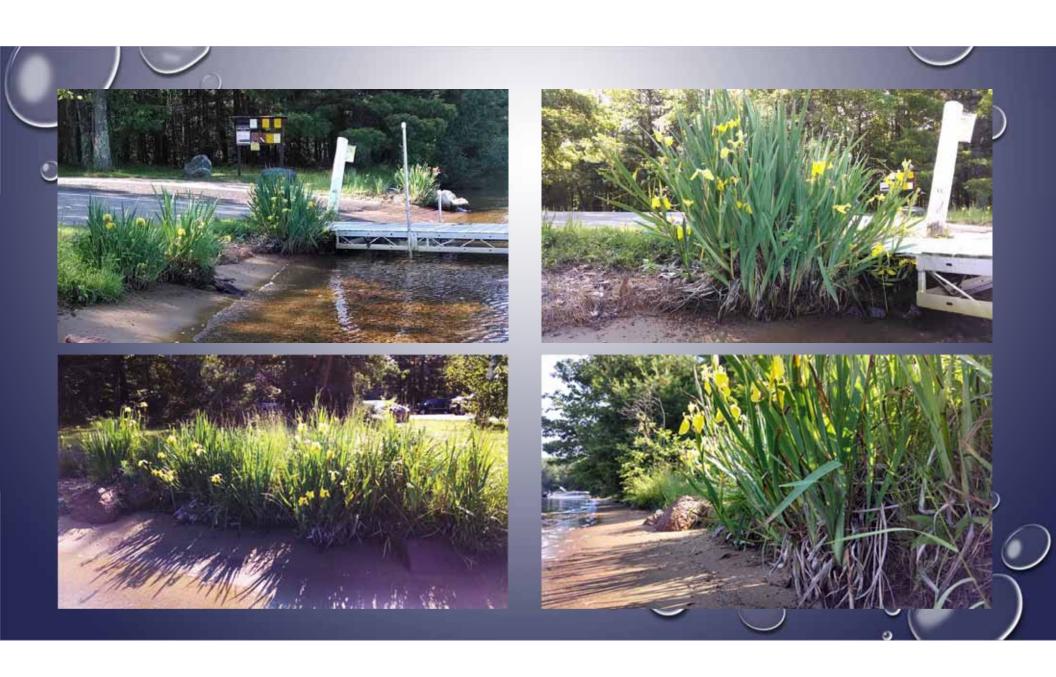








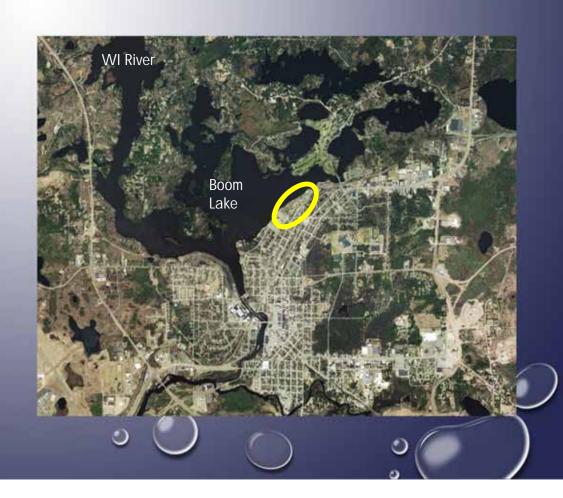




Yellow Iris Restoration Site at Boom Lake Boat Landing, Hodag Park, Rhinelander

Why is this a "High Profile" site?

- The site is located at a heavily used boat landing.
- Hodag Park (32 acres) is the heaviest used recreational facility in the county.
- Park is located in a residential area.



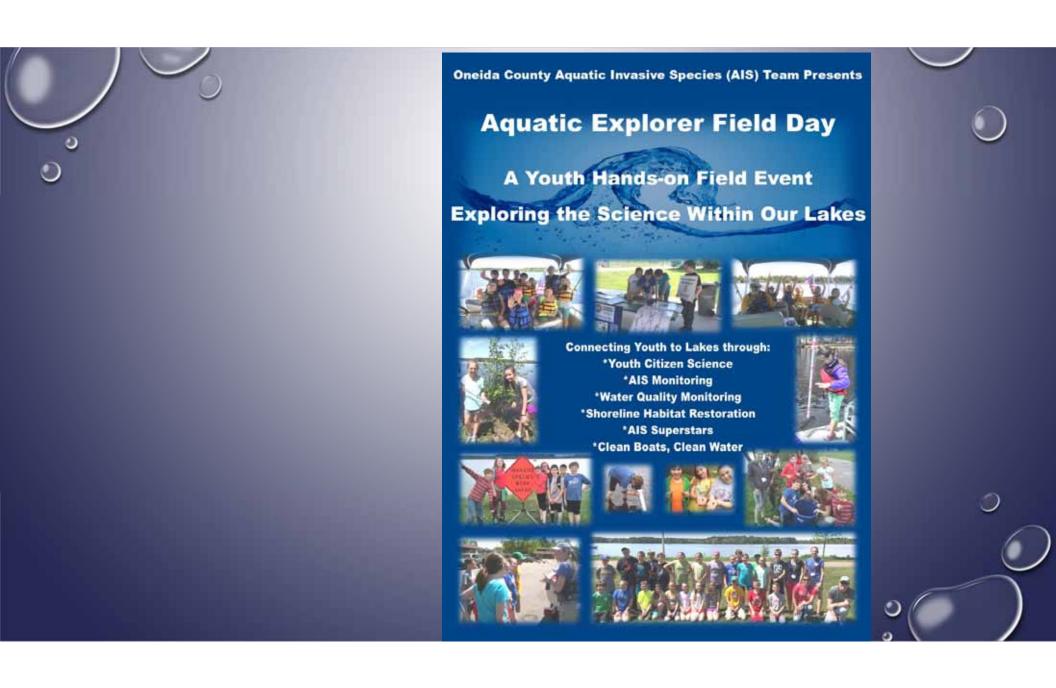
Yellow Iris Restoration Site at Boom Lake Boat Landing, Hodag Park, Rhinelander

Hodag Park features:

- 5 paved boat launches & 25 trailer stalls,
- 3 docks and1public fishing pier,
- PFD's are available for kids for free,
- Baseball/softball diamonds, park shelters, concession stands, playground equipment, and a swimming beach,
- Dogs are allowed in the park.... Yay!







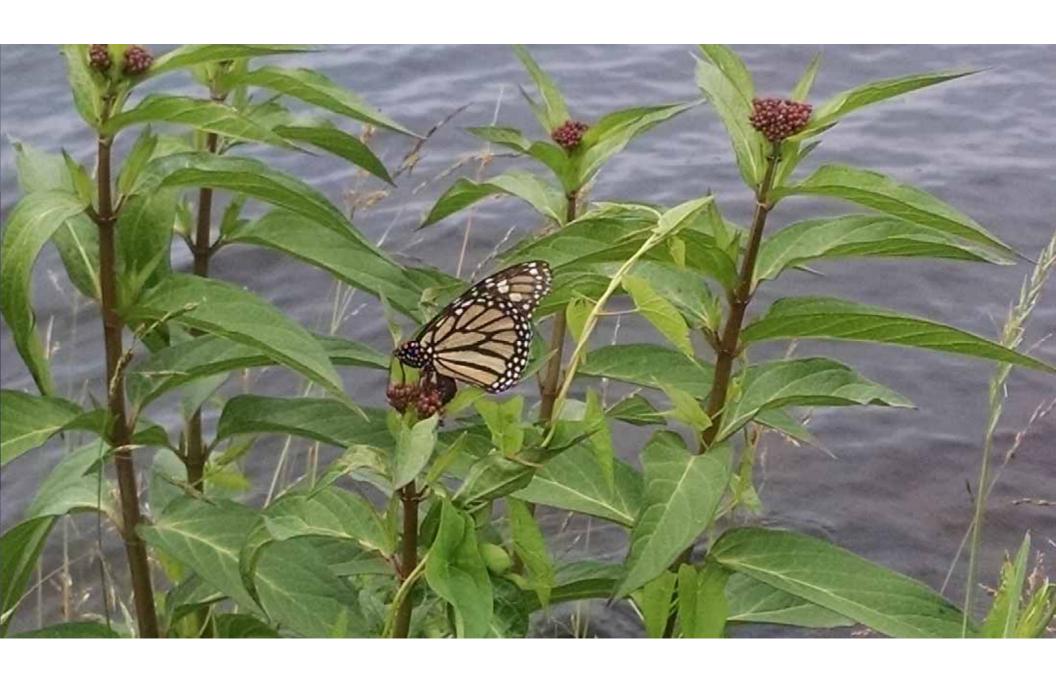
















2013, Identified a 0.05acre pioneer population of the non-native Phragmites australis.





- The site is located in a wetland habita at the bottom of a concrete run-off ditch, along Highway 8 just west of Rhinelander.
- The site extends across both WDOT highway right-of-way property and private property.





Rapid Response Control Strategy:

- Work closely with partners, government organizations, and landowners to coordinate management plan and efforts
- Oneida County Land & Water provided monitoring, mapping, reporting, and data entry

Oneida County Land & Water developed a restoration plan to suit the needs of the sites habitat and ecosystem.

 Observe ecological health and complexities. Observations serves as a benchmark for evaluating the success of the restoration project.



- OCLWCD's goal:
 - Provide rapid response, control, and removal of the Phragmites stand using both herbicide treatment (provided by WDNR), and manual removal (provided by OCLWCD).
 - Prevent it from spreading to new areas.
 - Remove biomass of dead standing stalks after herbicide treatments.
 - Restore the site to its natural wetland/marshy habitat by planting native plants.
 - Educate citizens about Phragmites.
 - Engaging school groups and volunteers in restoration efforts
 - Continue monitoring for Phragmites regrowth, monitor native plant development, and reevaluate the site to determine follow-up management.



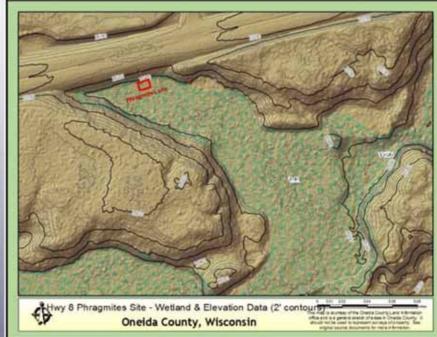
From 2014-2017, OCLWCD's AIS Team visited the site 15 times to:

- Determine the efficacy of both herbicide applications,
- Monitor for new growth,
- Prepare the site for a second herbicide application by removing the biomass of dead, standing culms (stems),
- Implement restoration activities.





- Observations concluded:
 - Site was located at the bottom of a roadside ditch and therefore the restoration plants would have to be tough enough to withstand being the first receiving entity of runoff flowing down the concrete drainage channel from Highway 8 above.
 - In addition, runoff could potentially carry with it contaminates, including road salt.
 - Other considerations included selecting native species appropriate to the area and habitat, species that could establish quickly, would improve the health and function of the ecosystem, provide stabilization to the erosion-prone site, and attract pollinators.
 - Site had to be herbicide-free for one year before planting young plants.







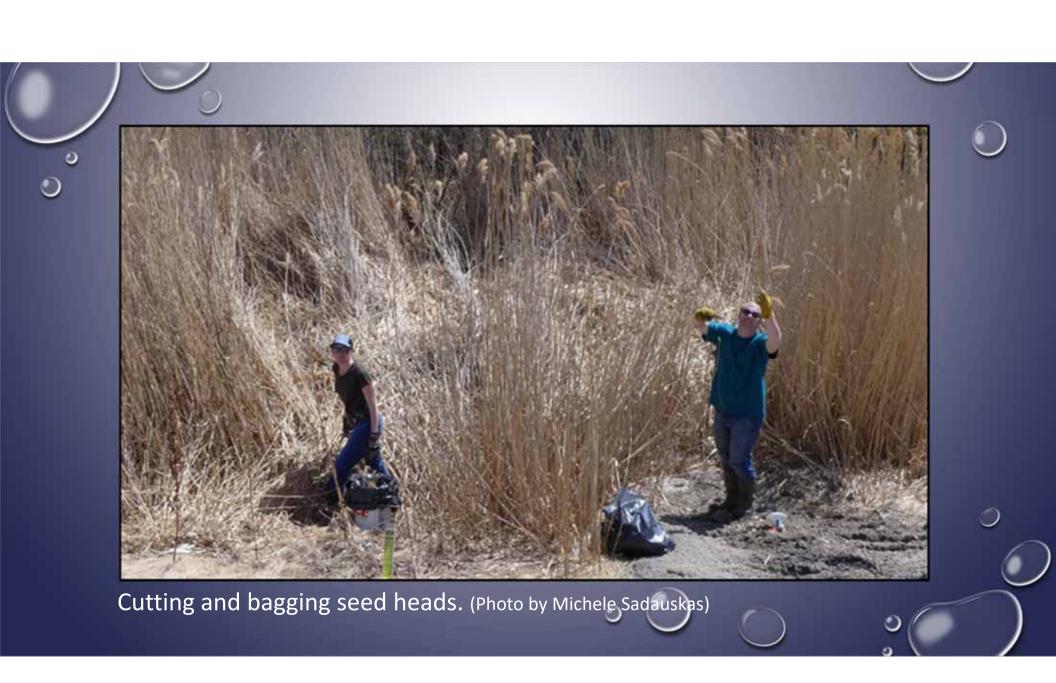
(Photo by Michele Sadauskas)

4/27/15 Phragmites manual removal project.

(Photo by Steph Boismenue)



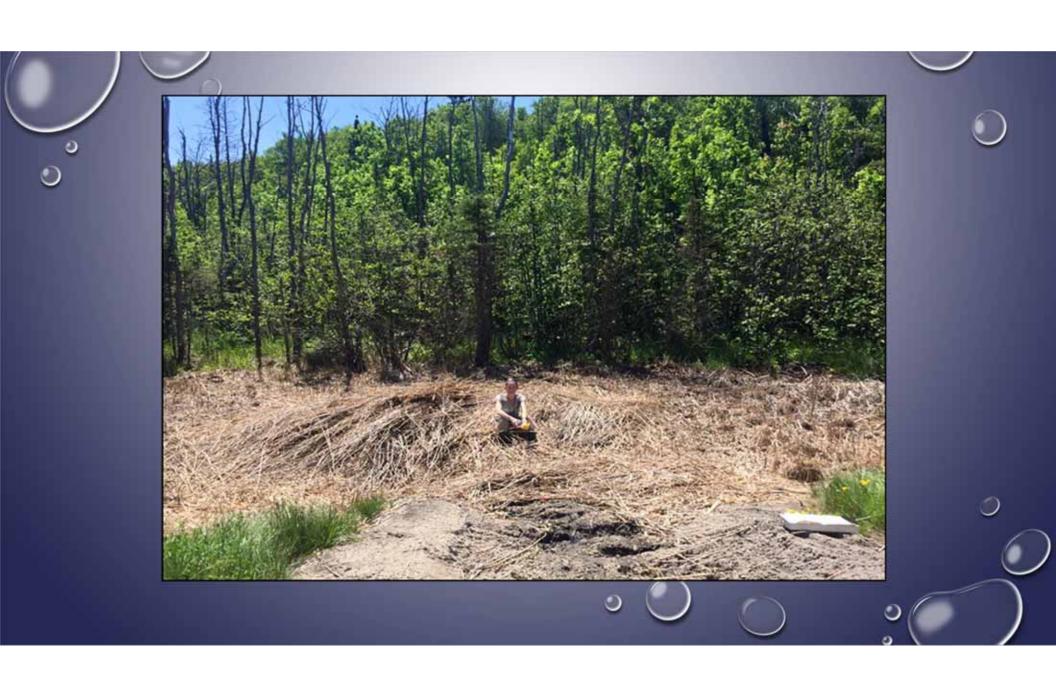




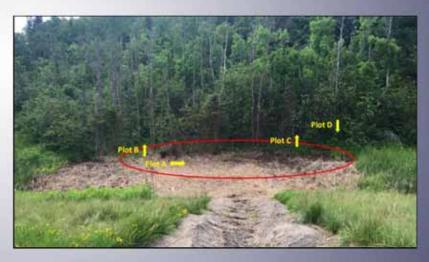


John is using a garden a sickle to cut the stalks at their base. (Photo by S. Boismenue, 4/27/15)









Site visit 6/23/15: New growth and plots labeled.

Plot A: 0 live plants. (45.61942657, -89.48020553)

Plot B: 5 live plants, max height of 4 feet, 4 inches. (45.61939439, -89.48012274)

Plot C: 9 live plants, max height of 4 feet, 6 inches. (45.6193422, -89.48023085)

Plot D: 9 live plants, max height of 5 feet, 7 inches. (45.619344, -89.480374)

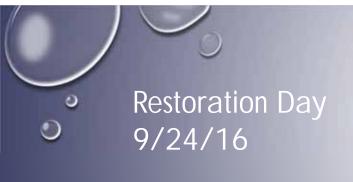
Second herbicide treatment applied 8/18/2015











July 2017





Benefits of removing biomass before the second herbicide treatment:

- Improved access to the center area within the site,
- Exposed green vegetation, and
- Allowed the herbicide application to reach/penetrate any new growth.
- Exposing green vegetation allowed the herbicide applicator to identify the invasive Phragmites from native vegetation, thus avoiding applying the herbicide to native plants within the treatment site.

