

Oneida County Aquatic Invasive Species Prevention and Control Project 2018-2019: Education, Prevention, and Planning

Grant ID AEPP 54418

Final Report



Prepared For
Wisconsin Department of Natural Resource

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Oneida County Aquatic Invasive Species Prevention and Control Project 2018-2019
Education, Prevention, and Planning
Final Report

Project Sponsor

Oneida County Land & Water Conservation Department

Project Title

Oneida County AIS Prevention and Control 2018-2019
Education, Prevention, & Planning

Project Funding

Wisconsin Department of Natural Resources

Project Number

AEPP-54418

Project Dates

February 15, 2018 through June 30, 2019

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Cover photo: 6-5-18 Exotic Aquatic Explorer Days at Boom Lake
Photo by Stephanie Boismenu



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INTRODUCTION

This report provides documentation of the accomplishments achieved under AIS Control Grant AEPP 54418 by the Oneida County Land and Water Conservation Department (LWCD). The grant was awarded to Oneida County by the Wisconsin Department of Natural Resources (WDNR), and the original project period, within the contract, was from February 15, 2018 through June 30, 2019. This report also serves as the “Final Report” identified as a deliverable in the grant agreement.

LWCD thanks the WDNR for their continued support of the County’s AIS program. With assistance from the WDNR AIS grant program, Oneida County has been able to develop an active and very successful AIS program. Our program helps protect our invaluable water resources, creates a stronger and more connected community, and works towards a brighter future for our entire state. Without financial support from the WDNR grant program, Oneida County’s AIS program efforts would be severely limited.

The concept of this project focused on collaborating and coordinating with interested entities working to protect our water resources within and surrounding Oneida County. Along those lines, the project contributed to raising public awareness about AIS through a variety of program activities described below.

This project was overseen by the Oneida County Conservation/UWEX Education Committee, with day-to-day activities developed and administered by Michele Sadauskas, County Conservationist and Stephanie Boismenu, AIS Coordinator, with support provided by Jonna Jewell, Administrative Assistant.

PROJECT OBJECTIVES AND BUDGETS

The following includes a list of objectives, along with the monetary allocations budgeted (parentheses) for completion of Oneida County's AIS Control Grant (AEPP-54418).

- 1A: Attendance of AIS Coordinator and one UWEX Education Committee member at the 2018 WI Lakes Partnership Convention. **(\$860.00)**
- 1B: AIS Coordinator's attendance at the Spring and Fall AIS Coordinators meetings, local lake fairs, and other miscellaneous AIS-related Meetings. **(\$870.00)**
- 2A: Host two CBCW workshops. **(\$300.00)**
- 2B: Host one Citizen Lake Monitoring Network (CLMN) workshop. **(\$80.00)**
- 2C: Host one Invasive Species ID Day. **(\$75.00)**
- 2D: LWCD will create and distribute SAH/AIS-messaged pencils (1000), wristbands (200), lanyards (200), SAH bobbers (100), SAH magnets and SAH baggies to workshop participants, fair-goers, students, volunteers, fishing tournaments and other events. Utilize Bait Shop Initiative Toolkit and distribute outreach material and to bait shops, fishing tournaments, and other water-related businesses. Items will feature SAH message and urge citizens to report suspected AIS. **(\$1025.00)**
- 2E: LWCD will coordinate with DNR law enforcement 1 weekend per summer season. **(\$0)**
- 2F: LWCD will take part in the statewide July 4th Landing Blitz (distribute over 300 SAH towels), Draining Campaign (distribute 600 ice packs), AIS Snapshot Day, Bait Shop Outreach, Waterfowl Campaign and write a minimum of 6 media releases. LWCD will continue to be a Drain Campaign distribution site for partners (1,600 ice packs). **(\$50.00)**
- 2G: LWCD will perform at least 625 CBCW hours. In 2017, LWCD completed 863.75 CBCW hours (95% of CBCW inspections occurred at lakes > 500 acres). In 2018, at least 85% of inspections will occur on lakes > 500 acres. Additionally, LWCD will perform 20% of inspections at Stacks Bay Landing on Lake Minocqua (AIS Source Water). Data to be inputted into SWIMS. **(\$0. Costs associated with 4A)**
- 2H: LWCD to hold a minimum of 5 student AIS classroom/field events. It is hoped at least one will be held in each school district; Three Lakes, Minocqua, Rhinelander. Hold 2 Exotic Aquatic Explorer field events to include donation of a floating classroom pontoon boat. **(\$490.00)**
- 2I: Continue installing AIS signs at a minimum of 4 public and 2 private landings. **(\$0. Costs associated with 4A)**
- 2J: Collaborate with CLMN/DNR to develop EWM Hand Harvesting Training and Certification program, hold 2 trainings. It is hoped the program will be adopted statewide. **(\$110.00)**
- 2K: Host 1 public viewing of the non-profit, Emmy Award Winning AIS Documentary "Making Waves: Battle for the Great Lakes." **(\$100.00)**
- 3A: Create and distribute an end-of-year report, which will also include an evaluation component. **(\$105.00)**
- 3B: Write a minimum of 12 AIS updates and distribute them via the 'lake contact' list serv. **(\$0)**
- 3C: Update and improve Oneida County's AIS blog and Facebook site. **(\$190.00)**

- 3D: Host an awards ceremony and partnership Meeting. **(\$800.00)**
- 3E: Coordinate the 6th Annual 'Northwoods AIS Poster Contest'. Increase student and partner participation from 2016 contest. Contest began as a 1- county event in 2012, and has grown to encompass 12 counties and 10 participating partners in 2016. **(\$690.00)**
- 3F: Review, evaluate, revise Oneida County AIS Strategic Plan. Increase and diversify partnerships to implement the plan. **(\$0)**
- 4A: Hire three LTE's to perform monitoring, restoration, and outreach projects. LTE's to monitor a minimum of 15 waterbodies using CLMN and DNR AIS early detection monitoring and water quality monitoring protocols. Data collected to be entered into SWIMS. LTE's will be responsible for CBCW inspections, AIS monitoring, distributing outreach materials, leading/participating in student and adult educational field events, workshops, etc. LTE's will assist AIS Coordinator in managing pioneer populations of AIS. LTE's will perform equipment decontamination following DNR protocols. Two 500 hr., \$12/hr. LTE positions will be available for students (one position will be funded by AEPP-507-17 and is NOT financially in this grant application). One LTE position is for 500 hrs., \$14/hr. This position will be a field supervisor w/experience and may be responsible for end-of-season reporting and data entry (Sept.) and early season projects (April). **(\$400.00)**
- 4B: Continued control/restoration/monitoring of Yellow Iris (YI) and Purple Loosestrife (PL) sites. In particular; Hodag Park, Big Carr/Little Carr (SNA), Planting Ground, Lake Tomahawk, Quality Inn, and Crescent sites. Additionally, aim to assist 3 private citizens in restoration initiatives. **(\$50.00)**
- 4C: Continue restoration/monitoring of PROHIBITED invasive plant species sites. Phragmites: HY 8, roadside stand, HY 70, private property adjacent to Tomahawk River. Glyceria maxima: Sureshot Lake. **(\$50.00)**
- 4D: Coordinate a Purple Loosestrife (PL) biocontrol project. Project will be targeted at containing larger populations that cannot be hand-pulled. Smaller PL populations will continue to be controlled via flower-clipping and hand-digging. **(\$50.00)**
- 4E: LWCD to coordinate and implement the Pelican Lake CLMN Zebra Mussel Monitoring project with the Pelican Lake Property Owners Association (PLPOA), to include 1 workshop. In 2015, LWCD discovered two dead zebra mussel shells at Pelican Lakes Hwy G boat landing. From 2015 - 2017, the DNR and LWCD staff performed limited zebra mussel monitoring on Pelican Lake, which resulted in no occurrences of zebra mussels. Pelican Lake is located 19 miles to the west of zebra mussel infested Lake Metonga (Forest County). **(\$60.00)**
- 4F: LWCD staff to assist DNR with point-intercept (PI) surveys, early detection monitoring on eligible lakes, including zebra mussel survey on Pelican Lake in 2018. Assist with report writing and data entry into SWIMS for a minimum of one lake. **(\$0)**
- 4G: Provide and maintain dissolved oxygen meter for CLMN volunteers and concentration monitoring projects. Yearly purchase and replacement of sensor cap. **(\$150.00)**

A complete description of accomplishments, along with the associated purchases within each project objective, are found in the following, respectively-marked tabs.

1A. Attendance of the AIS Coordinator and one UWEX Education Committee member at the 2018 WI Lakes Partnership Convention. Quarter April-June. (\$860.00)

The 2018 Wisconsin Lakes Partnership Convention and Water Action Volunteers Symposium was held April 18-20, in Stevens Point, WI. The Oneida County AIS Coordinator, Stephanie Boismenu, and the Oneida County Conservation/UW-EX Committee Chair, Bob Mott, attended all three days. During the Convention, Stephanie and Oneida County AIS Project Assistant, Thomas Boisvert, provided an oral presentation titled 'Restoring the Ecological Landscapes of "High Profile" AIS Sites in Oneida County' and a poster presentation titled 'Oneida County's Ice Angler AIS Outreach Project, 2012-2018'. Poster and oral presentation handouts for attendees were provided. Conference agenda and list of poster presenters are included.

Presenters: Stephanie Boismenu, AIS Coordinator, Oneida County Land and Water Conservation
Thomas Boisvert, AIS Program Assistant, Oneida County Land & Water Conservation

Poster Presentation: Oneida County's Ice Angler AIS Outreach Project, 2012-2018

Synopsis: In 2012, the Oneida County Land & Water Conservation Department's (LWCD) Aquatic Invasive Species (AIS) Program debuted their 'Ice Angler AIS Outreach' project to see what they know about AIS and where information may need to be directed. During the weekends, an AIS Team member traveled to ice fishing tournaments and area lakes that experienced heavy ice fishing pressure, to provide ice anglers with AIS education and outreach material. In addition, the anglers were asked to participate in an eleven-question survey to help the LWCD understand this demography. The AIS Team continued conducting Ice Angler AIS Outreach in 2013, 2014 and 2018 of which an estimated 2,000 anglers were reached and 775 surveys were completed. The LWCD's poster details the project, survey results, and the future of ice angler outreach in Oneida County.

Oral Presentation: Restoring the Ecological Landscapes of "High Profile" AIS Sites in Oneida County

Synopsis: Join the Oneida County AIS Team as they share their integrated management approach to control and eradicate two "high profile" AIS sites: Yellow Iris along the shoreline at Rhinelander's Boom Lake boat landing and a 0.05-acre Phragmites site located at the bottom of a highway, concrete drainage ditch. But wait, there's more! The AIS Team rehabilitated and restored both of the AIS-degraded sites using local native seeds they collected and germinated. The Team will explain why observing both sites ecological health and complexities served as an indicator for developing a successful management and restoration plan, engaging school groups and volunteers in restoration efforts, and their plan to provide long-term management.

- **High Profile Site #1: Inspiring Young Minds through Yellow Iris Restoration:** In 2014, the Oneida County AIS Team began uprooting the invasive Yellow Iris along the shoreline at Rhinelander's Boom Lake boat landing and restoring the site's native habitat. Since this restoration project is ongoing, the AIS Team enlisted the help of elementary students and combined the restoration activities with an annual AIS educational field trip, "Exotic Aquatic Explorer Field Day at Boom Lake." During the daylong field trips, students get their hands dirty uprooting Yellow Iris and planting native plants in its place, board a floating classroom for hands-on Citizen Lake Monitoring activities, and become AIS Superstars by creating and videotaping AIS public service announcements. To date, students have helped the AIS Team successfully restore over 1,500 square feet of Boom Lake's shoreline, increased their AIS knowledge, and gained a deeper appreciation for the magic of our lakes, rivers, and shoreline landscapes.

- **High Profile Site #2: Oneida County’s Phragmites-Affected Site Restoration**

Have you ever wondered if you could manage a small, pioneer population of the invasive Phragmites australis, to the point of elimination and successfully restore the sites native plant communities with native plants that you started from seed? YES you can! Join the Oneida County AIS Team as they share their four-year journey controlling, managing, and restoring a 0.05-acre Phragmites site, located at the bottom of a roadside, concrete drainage ditch. The Team will explain why observing the sites ecological health and complexities served as an indicator for developing a successful restoration plan, engaging volunteers in restoration efforts, and their plan to provide long-term management.

Budget for 1A: \$860.00

Payee and Expenses:

UWEX Lakes:	Conference registration fee for Coordinator	\$225.00
UWEX Lakes:	Conference registration for Committee Chair	\$160.00
Holiday Inn:	Lodging fee for AIS Coordinator	\$223.98
<u>Holiday Inn:</u>	<u>Lodging fee for Committee Chair</u>	<u>\$223.98</u>
Total Expenses		\$832.96

Photos and handout material are included (Appendix A and Appendix C).

Minor expenses for printing and mileage were incurred (Tab 4A and Appendix E and G).

1B. AIS Coordinator's attendance at the Spring & Fall AIS Coordinator meetings, local lake fairs, and other miscellaneous AIS-related meetings. All Quarters. (\$870.00)

The Oneida County AIS Coordinator, Stephanie Boismenu, attended the following 103 meetings, workshops, events, and activities from February 15, 2018 through June 30, 2019.

02/16/18 AIS education, Nativity Catholic School, Rhinelander
3/5/18 to 3/7/18 AIS Coordinator meeting, Beaver Creek, WI
03/12/18 AIS presentation at Oneida Co. Conservation/UW-Edu Committee meeting, Rhinelander
03/15/18 AIS presentation at WI Land & Water Conference, Lake Geneva, WI
03/16/18 AIS education, Northwoods Community Elementary School, Rhinelander
03/16/18 AIS education, Central School, Rhinelander
03/21/18 AIS booth at WHIP Annual meeting, Woodruff
03/22/18 AIS education, Central School, Rhinelander
03/29/18 LWCD Shoreline Restoration contractor workshop, Rhinelander
04/05/18 AIS education, Central School, Rhinelander
04/05/18 Interview LTE's, Rhinelander
04/07/18 AIS presentation at Northern Highland Citizen Science Meeting, St. Germain
04/17/18 Picked up AIS poster at Copy Cat Printer, Minocqua
04/17/18 Attended Upper Kaubashine's Eurasian water-milfoil meeting, Minocqua
04/18/18 WI Lakes Convention, Stevens Point
04/19/18 WI Lakes Convention - Poster presentation, Stevens Point
04/20/18 WI Lakes Convention - Oral presentation, Stevens Point
04/23/18 Interview at "Live at 5" - at WJFW
04/26/18 CBCW workshop #1, Rhinelander
04/27/18 AIS education, Minocqua Hazelhurst Lake Tomahawk School, Minocqua
05/02/18 Picked up Invasive Species Poster at Crandon Library, Crandon
05/08/18 Poster Judging for the Northwoods' Invasive Species Poster Contest, Rhinelander
05/10/18 AIS field event: Ecotrek at Kemp Station, Woodruff
05/15/18 AIS field event with Pelican School at Ced Vig Outdoor Classroom, Rhinelander
05/17/18 AIS field event with Central School at Ced Vig Outdoor Classroom, Rhinelander
05/18/18 AIS field event with Central School at Ced Vig Outdoor Classroom, Rhinelander
05/19/18 CLMN Zebra Mussel Workshop with Pelican Lake Property Owners Assoc, Schoepke
05/21/18 AIS education, Arbor Vitae Woodruff School, Arbor Vitae
05/22/18 AIS field event with James Williams Middle School at Ced Vig Outdoor Classroom
05/23/18 Poster contest awards presentation, James Williams Middle School, Rhinelander
05/23/18 Poster contest awards resentation/culmination, Arbor Vitae Woodruff School
05/23/18 AIS field event with James Williams Middle School at Ced Vig Outdoor Classroom
05/24/18 AIS field event with James Williams Middle School at Ced Vig Outdoor Classroom
05/24/18 CBCW Workshop #2, Three Lakes
05/29/18 CBCW Workshop #3, Crescent Lake
05/30/18 AIS field event with Pelican Elementary School at Ced Vig Outdoor Classroom
05/30/18 DNR Spring meeting, Woodruff
05/30/18 Collected Purple Loosestrife (PL) Beetles for Golden Sands RC&D, Big Carr Lake
05/31/18 PL Biocontrol Prep Day with Three Lakes Waterfront Assoc., Rhinelander & Three Lakes
06/01/18 AIS field event: Exotic Aquatic Explorer Field Day with Central School at Hodag Park
06/01/18 AIS field event: Family Fishing Fun Day at Hodag Park

06/06/18 CBCW Boater Behavior Study webinar
06/06/18 CBCW Workshop #4, Woodruff
06/07/18 AIS field event: Exotic Aquatic Explorer Field Day with Nativity School at Hodag Park
06/07/18 AIS Snapshot Day webinar
06/07/18 DNR Decontamination workshop, Rhinelander
06/07/18 CBCW Workshop #5, Lake Nokomis
06/07/18 Decontamination Workshop, Kemp Station
06/13/18 GPS Training with Oneida County GIS Specialists, Rhinelander
06/13/18 AIS Programs Native Seed Transplant event, Rhinelander
06/14/18 AIS and water quality monitoring on Emma Lake, Rhinelander
06/22/18 AIS field event: Exotic Aquatic Explorer Field Day James Williams School at Hodag Park
06/23/18 CLMN AIS ID and Monitoring Workshop with Squash Lake District, Rhinelander
06/28/18 Phragmites site visit- Harbor Drive, Rhinelander
06/29/18 SLA - AIS Workshop
06/30/18 AIS presentation at Stella Lake Associations Annual meeting, Rhinelander
07/02/18 Landing Blitz interview with WJFW TV 12, Rhinelander
07/05/18 AIS presentation at Three Lakes Waterfront Association's Annual meeting, Three Lakes
07/06/18 CLMN Adopt-A-Shoreline workshop, Three Lakes Waterfront Association, Three Lakes
07/09/18 AIS presentation at Oneida Co. Conservation/UW-Edu Committee meeting, Rheinlander
07/11/18 AIS & water quality monitoring at Big Bearskin Lake
07/11/18 Meeting at DNR, Rhinelander
07/13/18 AIS Booth/display at Oneida County Lakes & Rivers Assoc., Annual meeting, Rhinelander
07/16/18 Conference call with Maureen Ferry re: zebra mussel monitoring on Pelican Lake
07/18/18 CBCW workshop # 6, Boom Lake- Headwaters Project
07/19/18 PL Beetle Release in Three Lake
07/20/18 AIS monitoring on Pelican Lake
08/07/18 I-LIDS tour with Bob Mott & Lud in Vilas County
08/09/18 AIS monitoring on Lake Tomahawk
08/09/18 PL management, Highway 47 and at the Quality Inn
08/11/18 AIS booth: Three Lakes Fish & Wildlife's Annual Kids Free Fishing Day, Three Lakes
08/11/18 Mussel Bio Blitz, Three Lakes
08/13/18 AIS presentation at Committee meeting
08/16/18 PL management on McNaughton Lake
08/18/18 AIS Snapshot Day, Lake Tomahawk
08/23/18 Oneida County Stewardship Awards Banquet
08/31/18 PL management, Sugar Camp
09/05/18 Phragmites monitoring, Highway 8 site, Rhinelander
09/21/18 AIS presentation at Hodag Musky Challenge Rules meeting, Rhinelander
10/03/18 AIS Studies in WI at S.O.T in Minocqua
10/08/18 AIS presentation at Committee meeting
10/15 to 10/18 Upper Midwest Invasive Species Conference (UMISC), Rochester, MN
10/25/18 AIS meeting with student at Nicolet College
10/26/18 Vilas Co Lakes Partnership meeting, Boulder Junction
10/30/18 Oneida County Land & Water Resource Management Plan meeting, Rhinelander
10/30/18 AIS presentation at Go Big Read, Minocqua Library
11/06/18 AIS Lakes and Rivers Partnership monthly skype meeting
11/06/18 Seed Sowing Party

11/12/18 AIS presentation at Committee meeting
11/12/18 AIS presentation at Go Big Read, Rhinelander Library
11/13 to 11/14 AIS Coordinator meeting, Stevens Point
12/04/18 AIS and water quality monitoring meeting with Camp Tesomas, Rhinelander
12/05/18 DNR meeting, Rhinelander
12/06/18 Cost share shoreline survey with Stacy (DATCAP engineer): Charest property, WI River
12/18/18 Land and Water Resource meeting, Rhinelander
01/08/19 AIS Lakes & Rivers Partnership monthly skype meeting
01/15/19 Land & Water Poster judging, Rhinelander
01/16/19 Dissolved Oxygen meeting at DNR office, Rhinelander
01/17/19 Land & Water Speaking Contest, Rhinelander
01/18/19 WHIP meeting
01/29/19 AIS education at Nativity Catholic School, Rhinelander
02/05/19 AIS Lakes and Rivers Partnership monthly skype meeting
07/20/19 PL management on Hwy 8 east, Rhinelander

Budget for 1B: \$870.00

Payee and Expenses:

Copy Cat Printing:	Poster - WI Lakes Convention	\$60.00
UMISC Conference Host:	Registration – UMISC	\$357.00
The Kahler Grand Hotel:	Lodging - UMISC	\$327.00
<u>Cobblestone Hotel:</u>	<u>Lodging - Fall AIS Coordinators Meeting</u>	<u>\$82.00</u>
Total Expenses		\$826.00

Photos and news articles are included in Appendix A and B
Some mileage was incurred (Appendix E).

2A. Host 2 CBCW workshops. Quarter April-June. (\$300.00)

In 2018, the Oneida County AIS Coordinator, Stephanie Boismenu, held six CBCW Workshops for new and seasoned watercraft inspectors, totaling 78 participants who represented 25 lakes groups (22 lakes from Oneida, 2 lakes from Vilas, and 1 from Langland County), and provided CBCW coverage at 38 boat landings. All workshops followed statewide CBCW protocol and procedures. Participants received AIS education, learned how and why educational awareness is critical in preventing the spread of AIS, and trained to conduct watercraft inspections from beginning to end. CBCW kits, outreach supplies, and resources were distributed during the workshops. CBCW Certificates of Completion were mailed to participants. Workshops were advertised through the AIS "Lakes List" (email listserv), lake association newsletters, newspapers, radio, television, community event calendars, websites, Facebook, and posters. Media releases, event posters, workshop agendas, attendance sheets, and event summaries are included.

In 2018, the AIS Coordinator provided CBCW training and coordination to the following 22 lake groups in Oneida County (covering 35 boat landings).

1. Bear Lake P&R District
2. Big Bearskin Lake Association
3. Butternut-Schnur lake Association
4. Crescent Lake Association
5. Indian Lake Association
6. Lake George Lake Association
7. Lake Julia Lake Association (Rhineland)
8. Lake Julia Lake Association (Three Lakes)
9. Lake Mildred lake Association
10. Lake Nokomis (3 boat landings)
11. Lake Thompson Lake Association
12. Lone Stone Lake Association
13. Manson Lake Group
14. Minocqua Kawaguesaga (3 boat landings)
15. Moen Lake Chain
16. Pelican Lake Property Owners Association (3 boat landings)
17. Shis/Gunlock
18. Squash Lake Association
19. Three Lakes Waterfront Tomahawk Lake Association (7 boat landings)
20. Tom Doyle Lake Association
21. Tomahawk Lake Association (2 boat landings)
22. Two Sisters Lake Association

CBCW Workshop topics included:

- AIS education, hands-on AIS and native species identification AIS in Oneida County and statewide, AIS threats at our doorsteps, pathways and vectors.
- Local and statewide watercraft inspection efforts. AIS regulations, how and where AIS are most likely to hitch a ride.

- CBCW watercraft inspections from beginning to end, ways to educate and engage boaters, how to assist boaters with inspections, watercraft inspection tips and tricks, violations, data collection, and SWIMS data entry.
- Volunteer recruitment for CBCW and the statewide Drain Campaign, Landing Blitz, AIS Snapshot Day and Waterfowl Hunter Outreach programs.

Oneida County AIS Coordinator, Stephanie Boismenu, coordinated and instructed all six workshops. Of the six workshops, three were “formal” workshops that included guest educators: Sandy Wickman, Water Resource Management Specialists/CLMN Regional Coordinator with the DNR/UWEX Lakes presented “Hands-on Aquatic Plant Species Identification” and three DNR Conservation Wardens presented “A Law Enforcement Perspective.” In addition, the Conservation Wardens provided patrol boats for participants to see firsthand where AIS are likely to hitch a ride, learn about live wells and bilge systems, and to practice conducting watercraft inspections and scenario role-playing.

The LWCD held three “informal” CBCW workshops at boat landings where participants received hands-on field training and the same training as above, but in a condensed version. The May 29th workshop at Crescent Lake boat landing and the June 7th workshop at the Lake Nokomis boat landing were held to assist individual lake associations. The July 28th workshop, held at Boom Lake, provided training to 5 watercraft inspectors (and their supervisor) through a newly formed partnership with Headwaters Inc., a Community Based Day Service, which gets cognitively disabled adults out into the community and involved with volunteer efforts. This wonderful partnership resulted in providing 22.5 hours of volunteer CBCW coverage at the Boom Lake boat landing.

2018 CBCW Workshops:

April 26, 2018	CBCW formal workshop	38 attendees
Location:	Oneida County Courthouse, Rhinelander	
Instructors:	Stephanie Boismenu, AIS Coordinator, LWCD Dave Walz, Conservation Warden Supervisor, DNR	
May 24, 2018	CBCW formal workshop,	10 attendees
Location:	Cy Williams Park, Three Lakes	
Instructors:	Stephanie Boismenu, AIS Coordinator, LWCD Stan Lewis, Conservation Warden, DNR	
May 29, 2018	CBCW informal workshop	10 attendees
Location:	Crescent Lake Boat Landing, Rhinelander	
Instructors:	Stephanie Boismenu, AIS Coordinator, LWCD	
June 6, 2018	CBCW formal workshop	10 attendees
Location:	Woodruff Town Hall, Woodruff	
Instructors:	Stephanie Boismenu, AIS Coordinator, LWCD Sandy Wickman, Water Resource Management Specialists & CLMN Regional Coordinator, DNR/UWEX Lakes Tim Ebert, Conservation Warden Supervisor, DNR	
June 7, 2018	CBCW informal workshop	5 attendees
Location:	Lake Nokomis Boat Landing, Tomahawk	

Instructor: *Stephanie Boismenu, AIS Coordinator, LWCD*

July 18, 2018 *CBCW informal workshop*

Location: Boom Lake Boat Landing, Rhinelander

5 attendees

Instructors: *Stephanie Boismenu, AIS Coordinator, LWCD*
Jody Partin, AIS Project Assistant, LWCD

Total

78 attendees

Budget for 2A: \$300.00

Payee and Expenses:

Home Depot:	Event supplies	\$ 39.97
<u>Golden Sands RC&D:</u>	<u>Acrylic AIS specimens</u>	<u>\$371.65</u>
Total Expenses		\$411.62

Photos, press releases, news articles, and educational material are included in Appendix A, B and C
Minor expenses for printing and mileage were incurred (Tab 4A and Appendix E and G).

2B. Host one Citizen Lake Monitoring Network (CLMN) workshop. Quarter July-September. (\$80.00)

In 2018, the LWCD engaged five lake groups, totaling 48 participants, in ‘individual lake’ CLMN training events. Each event had a ‘classroom’ experience and a field experience (floating classroom). LWCD engaged participants and received rave reviews from the host organizations. Participants received CLMN training protocols, identification, and reporting guidelines. CLMN kits were provided to participants. Media releases, event posters, workshop agendas, and attendance sheets are included.

2018 CLMN Workshops:

May 19, 2018	<i>AIS Identification and Zebra Mussel Monitoring workshop</i>	6 attendees
	Lake Group: Pelican Lake Property Owners Association	
	Location: Schoepke Town Hall	
	Instructors: <i>Stephanie Boismenu, AIS Coordinator, LWCD</i> <i>Sandy Wickman, Water Resource Management Specialists and CLMN Regional Coordinator, DNR/UWEX Lakes</i>	
June 23, 2018	<i>AIS Identification, Monitoring and EWM Hand-harvesting Training</i>	5 attendees
	Lake Group: Squash Lake District	
	Location: Gudis Landing, Squash Lake	
	Instructors: <i>Stephanie Boismenu, AIS Coordinator, LWCD</i>	
June 28, 2018	<i>AIS and Water Quality Monitoring Training</i>	1 attendee
	Lake Group: Stella Lake Association	
	Location: Stella Lake	
	Instructors: <i>Aubrey Nycz, Lead AIS Program Assistant, LWCD</i> <i>Vanessa Niemczyk, AIS Program Assistant, LWCD</i>	
July 5, 2018	<i>AIS and Water Quality Monitoring Training</i>	1 attendee
	Lake Group: Swamp Lake Association	
	Location: Swamp Lake	
	Instructors: <i>Aubrey Nycz, Lead AIS Program Assistant, LWCD</i> <i>Jody Partin, AIS Program Assistant, LWCD</i>	
July 6, 2018	<i>Adopt-A-Shoreline Workshop</i> (AIS Identification, Monitoring and EWM Hand-harvesting Training)	35 attendees
	Lake Group: Three Lakes Waterfront Association	
	Location: Virgin Lake	
	Instructors: <i>Stephanie Boismenu, AIS Coordinator, LWCD</i> <i>Sandy Wickman, Water Resource Management Specialists and CLMN Regional Coordinator, DNR/UWEX Lakes</i>	

Budget for 2B: \$80.00

Payee and Expenses:

<u>Amazon Capital Services: Book for AIS event ‘Life and Death of the Great Lakes’</u>	<u>\$18.19</u>
Total Expenses:	\$18.19

Photos, press release, and news articles are included in Appendix A and B.

Some mileage was incurred for the above project (Tab 4A and Appendix E).

State of Wisconsin
Department of Natural Resources
Form 3200-101 (1/07)
dnr.wis.gov

Karel Baugh
Citizen Lake Monitoring Network Release of Claims

Notice: Information provided on this form is voluntary, and authority for use of it is under s. 23.11, Wis. Stats. Personally identifiable information, including such data as volunteer name, address, phone number, will be used for management of DNR programs. Wisconsin's Open Records laws, s. 19.32-19.39, Wis. Stats., require the Department to provide this information upon request.

Lake and Volunteer Information

Lake	Stella Lake	Summer Postal Address	505 Wildlife Trail Three Lakes, WI 54582
County	Oneida	Winter Address (if different)	Same
Summer Day Telephone Number	715-362-0309	Winter Telephone Number (if different)	Same
Lake Telephone Number (if different)	Same	Lake Address for Equipment Delivery (if different)	Same
E-mail Address	Kbaugh4589@gmail.com		

Citizen Lake Monitoring Network Release of All Claims

The volunteer signing below understands and acknowledges that:

- The Volunteer has agreed to sample a lake pursuant to the Citizen Lake Monitoring Network (hereinafter referred to as the "Program").
- The Volunteer is not an employee or agent of the Department of Natural Resources while performing these activities.
- The Volunteer may encounter hazards from the presence of individuals using the body of water or from natural occurrences.

Waiver

I have read and fully understand this document. In consideration of being accepted as a Volunteer, I hereby waive any and all claims against the State of Wisconsin, the Department of Natural Resources, or any agent or employee of the State or Department acting lawfully and within the scope of his/her official duties during the course of my participation in the Program. This includes, but is not limited to, 1) claims by the Volunteer, his or her estate, executor, administrator, heirs and assigns for wrongful death, personal injury, or property damage arising during the course of sampling, or while traveling to and from sampling location(s); 2) claims for fines or other civil or criminal penalties or damages imposed upon the Volunteer by a court of law arising in any way from the Volunteer's participation in the Program.

Signature: *Karel Baugh*
Name (please print): Karel Baugh
Date: 6/28/18

State of Wisconsin
Department of Natural Resources
Form 3200-101 (1/07)
dnr.wis.gov

Steve Moran
Citizen Lake Monitoring Network Release of Claims

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Lake and Volunteer Information

Lake	SWAMP LAKE	Summer Postal Address	10689 SWAMP LAKE RD
County	ONEIDA	Winter Address (if different)	TOMSAWALK, WI. 54487
Summer Day Telephone Number	715-453-3324	Winter Telephone Number (if different)	SAME
Lake Telephone Number (if different)	Same	Lake Address for Equipment Delivery (if different)	Same
E-mail Address	fuzzy@swamp120.com		

Citizen Lake Monitoring Network Release of All Claims

The volunteer signing below understands and acknowledges that:

- The Volunteer has agreed to sample a lake pursuant to the Citizen Lake Monitoring Network (hereinafter referred to as the "Program").
- The Volunteer is not an employee or agent of the Department of Natural Resources while performing these activities.
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Waiver

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Signature: *Steve Moran*
Name (please print): Steve Moran
Date: 7/5/18

2C. Host one Invasive Species ID Day. Quarter July-September. (\$75.00)

The LWCD collaborated with the Wisconsin Headwaters Invasives Partnership (WHIP) to host an 'Invasive Species Roadshow' event, held from 11:00 a.m. to 1:00 p.m. on October 5, 2018 inside the Trigs Mall in Rhinelander. During this event, Stephanie Boismenu, Oneida County AIS Coordinator, and Rosie Page, WHIP Coordinator, provided an opportunity for residents to bring a suspected invasive terrestrial or aquatic plant, insect, or animal to the event for identification. Residents were engaged in invasive species education and outreach, native plant discussions, and provided free information on all types of invasive and native species. This event was advertised through the AIS "Lakes List" (email listserv), lake association newsletters, newspapers, radio, television, community event calendars, websites, Facebook, and posters. Media releases, event posters, and event photos are included.

Stephanie and Rosie shared a booth and provided their own invasive species display boards, specimens, and educational outreach material. Stephanie's specimens included Chinese and banded mystery snails, zebra mussels, EWM, SWF, CLP, PL, YI, and rusty crayfish. There was also a county map showing current AIS locations, a Secchi disk and Zebra Mussel plate to gain interest and questions, numerous plant and animal books, and a display board with AIS and CBCW information. Handouts included AIS wildcards and brochures plus bracelets, lanyards, stickers, tattoos, pens, pencils were available for all who attended.

Although attendance was low (six people), we were able to spend quality time with those participants and spread a meaningful message to them. WJFW TV 12 came to capture the event. The public seemed genuinely interested and concerned with the topic of invasive species and what can be done to prevent and get rid of them.

Budget for 2C: \$75.00

Total Expense \$ 0.00

Photos and news articles are included in Appendix A and Appendix B.
Some mileage was incurred for the above project (Tab 4A and Appendix E).

2D. LWCD will create and distribute SAH/AIS-messaged pencils (1000), wristbands (200), lanyards (200), SAH bobbers (100), SAH magnets and SAH baggies to workshop participants, fair-goers, students, volunteers, fishing tournaments and other events. Utilize Bait Shop Initiative Toolkit and distribute outreach material and to bait shops, fishing tournaments, and other water-related businesses. Items will feature SAH message and urge citizens to report suspected AIS. All Quarters. (\$1,025.00)

The AIS Team designed, obtained, and distributed 250 wristbands (140 red, 140 blue and 125 white) with "Save Our Lakes! Stop Aquatic Hitchhikers" printed on them and 450 blue lanyards with the SAH message printed on them. Additionally, 200 SAH fishing bobbers were ordered. In addition, the AIS Team custom designed and obtained 120 stickers, 150 tote bags, and 100 journals (see below for descriptions).

Stickers: The AIS Team designed 120 stickers using a winning poster design and winning slogan from the 2015 Northwoods' Invasive Species Poster Contest. The design on the stickers depicts several invasive species cartoon characters being chased by crayfish with a "Knight in Shining Armor" riding on its back. The slogan "*Clean Your Boat Before You Flat*" and "*oneidacountyais.com*" were printed on the stickers. The stickers were distributed during youth field events. The popular design will continue to be used yearly for various youth outreach needs.

Tote Bags: The AIS Team created and obtained 150 reusable fabric "grocery style" tote bags for CBCW and CLMN workshop participants. Printed on both sides of the bags is a drawing of a frog sitting on a lily pad. Text on one side of the bag reads "*Oneida County Aquatic Invasive Species Program; Together we can protect our waterbodies!*" The text on the other side reads, "*www.oneidacountyais.com*" and "*Prevent the spread of aquatic invasive species. Before launching and when leaving a waterbody, you must*" and it goes on to read the boat landing message. The totes received rave reviews and were the perfect size for workshop educational supplies.

Notebook with Pen: The AIS Team designed and obtained 100 notebooks with pens for workshop participants. The SAH message and "*Inspect, Remove, Drain, Never Move! Oneida County AIS, www.oneidacountyais.com*" is imprinted on the front of the notebook.

The lanyards, wristbands, and bobbers were popular giveaway items at outreach events and workshops.

Due to the high cost of the magnets, the AIS Team decided against ordering them and ordered the notebooks in place of the magnets.

In 2016 and 2017, the LWCD designed and obtained SAH pencils, SAH lanyards, SAH napkins and SAH backpacks. At the beginning of the 2018 season, a large supply of these items was still in stock and distributed at events and workshops.

The LWCD obtained over 6,500 pieces of AIS publications, including stickers, SAH tattoos, AIS Wildcards, AIS Watch Cards, and all AIS brochures, from the WDNR. The stickers included the popular 'CBCW', 'Catch on to Healthy Fish', 'Don't Dump the Bait', 'WI Anglers: Minnow Use Reminder', and 'Stop Aquatic Hitchhikers' stickers. Furthermore, AIS Coordinator obtained an additional 500 pieces of the same publications while attending the 2018 State AIS Partnership meetings. Publication distribution lists are included.

Over 2,000 AIS publications were distributed to 10 local bait shops. These items were also available at all outreach events, workshops, CBCW watercraft inspections, and during fishing tournaments that the AIS Team attended. Additionally, LWCD provided outreach items to lake associations for their outreach

needs. A list of participating bait shops and the number of stickers distributed at each bait shop is included.

'Real-estate' type signs (purchased in 2013) continued to be displayed at landings, right-of-ways, and lake events. These signs are meant to be displayed in pairs. One sign of the pair displays the 'Stop Aquatic Hitchhiker' logo, while the other sign displays a catchy slogan that students developed.

LWCD continues to loan out 8 of 10 portable signs that were purchased in 2010. Lake groups continue to use these signs at landings and for CBCW, lake fairs, workshops, etc. The remaining two signs are used frequently by the AIS team at workshops, landings, and at various outreach events.

Budget for 2D: \$1,025.00

Payee and Expenses:

National Pen Company: 100 SAH/Oneida County AIS Journals with pens	\$238.92
Wristband Creation: 250 SAH wristbands (blue, white & red)	\$225.02
Golden Sands RC&D: 100 SAH bobbers (\$67.50) (see 4A for \$192.00)	\$259.50
Custom Lanyards: 200 SAH lanyards	\$154.80
Vistaprint.com: 120 "Clean Your Boat Before You Float" stickers	\$ 73.10
<u>Custom Lanyards: 150 AIS tote bags (\$402.00) & 250 SAH lanyards (\$206.00)</u>	<u>\$516.80</u>
Total Expenses	\$1,468.14

Photos of all outreach items are included in Appendix C.

Some mileage was incurred for the above projects (Tab 4A and Appendix E).

**2E. LWCD will coordinate with DNR law enforcement 1 weekend per summer season.
Quarters April-June, July-September (\$0)**

Field assistance from LWCD staff was available for 2018 DNR law enforcement utilization. However, the DNR did not require coordination of efforts from LWCD.

Budget for 2E: \$0 (No grant funding was needed for this project.)

2F. LWCD will take part in the statewide July 4th Landing Blitz (distribute over 300 SAH towels), Draining Campaign (distribute 600 ice packs), AIS Snapshot Day, Bait Shop Outreach, Waterfowl Campaign and write a minimum of 6 media releases. LWCD will continue to be a Drain Campaign distribution site for partners (1,600 ice packs). All Quarters. (\$50.00)

During the 2018 season, the Oneida County AIS Team participated in the statewide Drain Campaign, Landing Blitz, AIS Bridge Snapshot Day (River Alliance), Bait Shop Outreach, Waterfowl Outreach, and CBCW Boater Behavior Study that was led by Erin McFarlane. In addition, participated in the DNR's Mussel Monitoring Blitz event and the AIS Team conducted an AIS Ice Angler Survey that was developed by LWCD in 2013. These events were advertised through the AIS "Lakes List" (email listserv), lake association newsletters, newspapers, radio, television, community event calendars, websites, social media, and posters.

May 31 - June 2, 2018, Drain Campaign

During this successful event, two Oneida County AIS LTE's worked a total of 19.50 hours at three high traffic landings, inspected 47 watercrafts, had contact with 95 boaters, and handed out ice packs to anglers as alternatives to transporting their fish in water. Countywide, a total of 37 individuals representing 15 lake groups, spent 175.50 hours (135.50 volunteer hours and 40 paid hours) at 16 boat landings, inspected 259 boats, and had contact with 535 people. Additionally, the LWCD participated as a DNR ice pack distribution site. A total of 2,600 ice packs were distributed to 19 lake associations, DNR wardens, and partners. A Drain Campaign icepack distribution list is included.

June 29 – July 4, 2018, Landing Blitz

During this five-day event, three Oneida County AIS LTE's worked 90.75 hours at 7 high-traffic landings, inspected 380 watercrafts, contacted 814 people and handed out the popular microfiber SAH towels, SAH stickers and SAH koozies to boaters who were practicing the prevention steps. Additionally, the LWCD was a Landing Blitz material distribution site for 19 lake associations and DNR wardens. Between the AIS Team and the 19 lake associations, a total of 26 boat landings were covered and 1100 SAH towels were handed out to boaters. A Landing Blitz towel distribution list is included.

August 18, 2018, AIS Snapshot Day

The AIS Team and six volunteers (total of 10 people) represented Oneida County during the 2018 Statewide AIS Snapshot Day hosted by the River Alliance of Wisconsin. The rendezvous site was located at the Lake Tomahawk boat landing. There, the volunteers received AIS identification and monitoring protocols for 22 different species, including wetland plants, aquatic plants and invertebrates. Monitoring supplies were provided by the AIS Team and included AIS identification packets, rakes, aqua scopes, maps, directions, forms, and boot brushes. After the training, the group divided into three teams and monitored 10 predetermined sites. Of the 10 sites monitored, 8 were located at boat landings (Mercer, Squaw, Buckskin, Booth, Hasbrook, Pickerel, Sweeney, and Clear Lakes) and 2 bridge/creek sites (Minocqua Thoroughfare and Link Creek). Afterwards, the teams returned to the rendezvous site, discussed results and wrapped-up the event. Our monitoring teams discovered PL on Mercer Lake, YI on Hasbrook, PL and Narrow Leaf Cattail on Sweeney Lake, PL on Link Creek, and PL on the Minocqua Thoroughfare. Event results and monitoring data was shared with the River Alliance of Wisconsin and monitoring data was entered into SWIMS. Volunteer sign-in sheet is included.

2018 CBCW Boater Behavior Project

The LWCD participated in the 2018 Boater Behavior Project, led by Erin McFarlane, AIS Volunteer Coordinator for UW Extension – Lakes. On August 4, 2018, Oneida County AIS Program Assistant, Thomas Boisvert, conducted 4 hours of CBCW Special Project inspections at the Rainbow Flowage. Inspection sheet is included.

2018 Bait Dealer Initiative

In 2018, the AIS Team visited 10 local bait shop to provide AIS outreach and supplied them with the Bait Dealer Toolkit. The Toolkit included the DNR provided Bait Dealer brochure, 'Bait Dealer Frequently Asked Questions' sheet, AIS stickers, Wildcards, and Watch Cards. The stickers included the popular 'Catch on to Healthy Fish', 'WI Anglers: Minnow Use Reminder', 'Don't Dump the Bait', and 'Stop Aquatic Hitchhikers' stickers. The brochures included 'Zebra Mussel Boater's Guide', 'Fishing with Bait', 'Ice Anglers', and 'Tournament Anglers', 'Protect Your Business, Protect WI. Waters.' These items were also handed out during fishing tournaments that the AIS Team attended. A total of 2,000 publications were provided to the bait shops. A list of participating bait shops and the number of outreach items distributed at each bait shop is included.

2018 Waterfowl Hunter AIS Outreach

During 2018, the LWCD did not have staff to conduct waterfowl outreach at the landings. However, the LWCD played an active role in this campaign by sending public service announcements to the news media, lake associations, and the lakes 'list serv' and posted information on the AIS website and Facebook page.

Budget for 2F: \$50.00

Total Expenses: \$0.00

Photos, news articles, press releases, photos of outreach material, and donated labor worksheets are included in Appendix A, B, C, and H.

Some mileage was incurred for the above projects (Tab 4A and Appendix E).

2G. LWCD will perform at least 625 CBCW hours. In 2017, LWCD completed 863.75 CBCW hours (95% of CBCW inspections occurred at lakes > 500 acres). In 2018, at least 85% of inspections will occur on lakes > 500 acres. Additionally, LWCD will perform 20% of inspections at Stacks Bay Landing on Lake Minocqua (AIS Source Water). Data to be inputted into SWIMS. Quarters Apr-June, July-September. (\$0. Costs associated with 4A)

From May 12 to September 1, 2018, the AIS Team performed 806 hours of CBCW watercraft inspections at 23 high-priority boat landings. Of the 806 hours, 757 hours (94%) were spent at super spreader waterbodies >500 acres, or at lakes that had EWM or CLP. Additionally, 243.50 hours (30%) were performed at Stacks Bay Landing on Lake Minocqua. Aubrey Nycz completed 232 hours of CBCW, Jody Partin 239 hours, Vanessa Niemczyk 185 hours, Thomas Boisvert 148 hours and Stephanie Boismenu 2 hours. During down time at the landings, the AIS Team monitored landings for AIS. Statewide CBCW guidelines were followed, CBCW Report forms were used and data was entered into SWIMS.

Total CBCW hours: 806 (181 hours over the projected 625 hours)

Boats inspected: 2,841

People contacted: 6,262

Boat landings visited: 23

Waterbodies visited: 20

Number of waterbodies visited <500 acres: 7

Number of waterbodies visited > 500 acres: 15

Percentage of hours at waterbodies > 500 acres: 94%

Percentage of hours at Stacks Bay landing: 30%

Budget for 2G: \$0 (costs associated with 4A)

Some mileage was incurred for the above projects (Tab 4A and Appendix E).

Costs associated with 4A

2H: LWCD to hold a minimum of 5 student AIS classroom/field events. It is hoped at least one will be held in each school district; Three Lakes, Minocqua, Rhinelander. Hold 2 Exotic Aquatic Explorer field events to include donation of a floating classroom pontoon boat. Quarter April-June, July-September. (\$490.00)

In 2018, the Oneida County AIS Team had direct contact with 1,430 students as they visited 20 classrooms (433 students), hosted 3 Exotic Aquatic Explorer Field Days (58 students), and participated in 10 student field events (939 students). In addition, 586 students submitted posters for the Northwoods' Invasive Species Poster Contest. Total students outreach = 2,016

2018 Classroom Visits: Hands-on AIS Education (Educator: Stephanie Boismenu)

<i>Date</i>	<i>School</i>	<i>Grades, # of Students, # of Classrooms</i>		
02/16/18	Nativity Catholic School	5	23	1
03/16/18	Northwoods Community Elementary School	4 & 5	31	2
03/16/18	Central School	4	23	1
03/22/18	Central School	5	160	7
04/05/18	Central School	4	21	1
04/27/18	Minocqua Hazelhurst Lake Tomahawk School	4	50	3
05/21/18	Arbor Vitae Woodruff School	4	50	1
Totals			358	16

2018 Classroom Visits: Northwoods' Invasive Species Poster Contest Awards Ceremony

05/23/18	James Williams Middle School	7	25	1
05/23/18	Arbor Vitae Woodruff School (culmination)	4	50	3
Totals			75	4

2018 Field Events

		<i>Grades, # of Students, # of Rotations</i>		
05/10/18	Ecotrek at Kemp Station (participating schools: MHLT, Nativity, Woodland Charter & Trinity)	6,7,8	184	10
05/15/18	Pelican School at Ced Vig Outdoor Classroom	1	60	3
05/17/18	Central School at Ced Vig Outdoor Classroom	4	63	6
05/18/18	Central School at Ced Vig Outdoor Classroom	4	83	6
05/22/18	James Williams at Ced Vig Outdoor Classroom	6	45	6
05/23/18	James Williams at Ced Vig Outdoor Classroom	6	65	6
05/24/18	James Williams at Ced Vig Outdoor Classroom	6	60	4
05/30/18	Pelican School at Ced Vig Outdoor Classroom	3	50	3
06/01/18	Exotic Aquatic Explorer Field Day at Hodag Park	4	21	3
06/01/18	Family Fishing Fun Day at Hodag Park	K-12	220	1
06/07/18	Exotic Aquatic Explorer Field Day at Hodag Park	5	23	4
06/22/18	Exotic Aquatic Explorer Field Day at Hodag Park	7 & 8	14	2
09/06/18	Three Lakes Fish & Wildlife's Annual Kids Free Fishing Day, K-8		109	1
Totals			997	55

Event Descriptions:

Northwoods' Invasive Species Poster Judging. Now in its seventh year (2018), the 'Northwoods' Aquatic Invasive Species Poster Contest' is open to any student in fourth through eighth grades. In 2015, 392 posters were entered and in 2016, 465 posters were entered from 15 different schools, representing 23 classrooms and 7 counties. In 2017, 466 posters were entered from 22 different schools, representing 36 classrooms and 10 counties. In 2018, a record 586 posters were submitted from 34 classes, representing 21 different schools in eight counties. Trophies were awarded to 1st, 2nd, and 3rd place posters. There were also ribbons provided for those students who received honorable mention and best slogans. Please see section 3E for more information on this event.

Ecotrek

This every-other-year event is held at Kemp Natural Resource Station in Woodruff, WI. During this event, students in grades 6-8 rotate through 7 outdoor field stations. The AIS Team provides a fulfilled hands-on AIS education at their station located along the shore of Lake Tomahawk. Preserved specimens (both animal and plant) and lake monitoring tools were on hand and the team gave away AIS wildcards, stickers, and bracelets.

CAVOC Field Events. Each spring, Rhinelander students in grades 1st – 6th attended a day-long field event at Ced Vig Outdoor Classroom, which is owned by the Rhinelander School Districts. During these events, students rotate through 3-4 natural resource-related educational stations. The AIS Team provides a fulfilled hands-on AIS education as they discuss what invasive species are, how they get here, how they could impact the places where the students live and play, and how to prevent AIS from spreading. Microscopes, live and preserved specimens and lots of learning tools were on hand. AIS/SAH wildcards, stickers, tattoos, and bracelets were handed out to students.

Family Fishing Fun Day. During this public event held at Boom Lake boat landing, the Oneida County AIS Team manned a booth that welcomed 220 youth and 130 adults. Preserved and live specimens (both animal and plant), wildcards, stickers, tattoos, and other giveaways were on hand. This event was sponsored by Oneida County 4-H and corresponds with the free fishing weekend (for all ages) sponsored by the WDNR. AIS/SAH wildcards, stickers, tattoos, and bracelets were handed out to students.

Exotic Aquatic Explorer Field Day - 5th Grade Field Event. The AIS Team hosted three Exotic Aquatic Explorer Field Days, held at Boom Lake Landing at Hodag Park in Rhinelander. A total of 58 students participated in the day-long AIS field and shoreline restoration events with the AIS Team. These events provided additional classroom learning experiences in AIS through hands-on experience, as well as fostering and inspiring young stewards of Oneida County. The AIS Team developed and conducted the three, 1 hour-long, rotating stations that focused on the negative impact that AIS can cause, the interrelationships of native plants, animals, and organisms, water quality, and protecting the environment through communication skills. The stations consisted of:

- **Floating Classroom:** During this rotation, students went out on the floating classroom, the "Let's Go Fishing" pontoon boat to enhance their AIS knowledge and learn about water clarity. Stephanie provided the students with invasive and native plant ID, zooplankton and invasive species sampling techniques and water clarity testing. Every student got to use the plant rake to obtain plant samples and the students on the boat had fun using Aquatic Field Guides to identify the plants. In addition, the students learned about and conducted Secchi disk readings and dissolved oxygen test. The pontoon boat was donated by *Let's Go Fishing, Rhinelander Chapter* and included a boat captain,

first mate and life jackets. Every student enjoyed this rotation, as they got to go on the pontoon boat and explore Boom Lake.

- **Restoring an AIS Affected Shoreline and AIS Monitoring:** Aubrey Nycz, AIS Lead Program Assistant and Tom Boisvert, AIS Program Assistant, provided hands-on experience with shoreline analysis, restoration, site mapping and recording site activities. This was achieved by explaining the importance of a healthy shoreline and how Invasives affect the shoreline habitat and identifying invasive Yellow Iris along the shoreline. Each student helped dig out yellow iris, tansy, and aquatic forget-me-nots. Then each student got to plant a couple of native plants including native Blue Flag Iris, Blue Vervain, Swamp Milkweed, and Joe Pye Weed. Once students were done with digging and planting, they created maps of the shoreline that included key features such as a title, compass, key landmarks, and the places where they planted the native plants. The students were then allowed to use the aquascopes and wade in the water to explore and hunt for rusty crayfish.
- **Invasive Worm Watch:** In the first rotation, the AIS Team conducted a worm watch activity, which is part of a citizen science program. Students filled up a gallon jug with water and then mixed in a quarter cup of mustard powder. Next, students poured the mixture all over the ground within the transect area and waited approximately five minutes. During this time period, the first layer of worms would surface and the students would identify them. This would be repeated two more times for the other two layers of worms. To end the session, students were allowed to walk along the shoreline to search for rusty crayfish and mystery snails.

The budget for Exotic Aquatic Explorer field Days included two school buses, rental of a pontoon boat, and restoration plants. However, no cost was incurred for these items because:

- The pontoon boat was donated by Let's Go Fishing, and included a boat captain, first mate and life jackets.
- The students from Nativity school used a school bus, which was paid for by private donations.
- The students from Central School walked the few blocks between the school and Hodag Park.
- The AIS Team germinated the restoration plants using local native seeds that they harvested and started the prior fall and included Cordgrass, Blue Vervain, Blue Flag Iris, and Joe-Pye Weed. By growing their own plants, the team was able to provide a cost-effective, bountiful supply of restoration plants.

Budget for 2H: \$490.00

Payee and Expenses:

Menards:	Lumber and hardware for 3'x3' seed frame	<u>\$51.61</u>
Total Expenses		\$51.61

Photos and press releases are included in Appendix A and B.

Minor expenses and mileage were incurred for the above projects (Tab 4A and Appendix E).

2I: Continue installing AIS signs at a minimum of 4 public and 2 private landings. All Quarters. (\$0. Costs associated with 4A)

During the 2018 season, the AIS Team updated AIS signage at 1 public boat landing, installed 1 new sign at a private boat launch, and entered data into SWIMS.

02/18/18	Round Lake, County Highway A in Lincoln County	Stephanie Boismenu
06/14/19	Weaver's Resort on Pelican Lake	Aubrey Nycz

Budget for 2I: \$0 (Costs associated with 4A)

Some mileage was incurred for the above projects (Tab 4A and Appendix E).

2J: Collaborate with CLMN/DNR to develop EWM Hand Harvesting Training and Certification program, hold 2 trainings. It is hoped the program will be adopted statewide. Quarters April-June, July-September. (\$110.00)

In 2018, the LWCD engaged the Three Lakes Waterfront Association and the Squash Lake District, totaling 40 people, in CLMN AIS education and monitoring and EWM hand-harvesting training events. Each event had a 'classroom' experience and a field experience (floating classroom). Participants received CLMN training protocols, outreach material and reporting guidelines. Media releases, event posters, workshop agendas, and attendance sheets are included.

June 23, 2018	<i>AIS Identification, Monitoring and EWM Hand-harvesting Training</i>	5 attendees
	Lake Group: Squash Lake District	
	Location: Gudis Landing, Squash Lake	
	Instructors: <i>Stephanie Boismenu, AIS Coordinator, LWCD</i>	
July 6, 2018	<i>Adopt-A-Shoreline Workshop</i>	35 attendees
	(AIS Identification, Monitoring and EWM Hand-harvesting Training)	
	Lake Group: Three Lakes Waterfront Association	
	Location: Virgin Lake	
	Instructors: <i>Stephanie Boismenu, AIS Coordinator, LWCD</i> <i>Sandy Wickman, Water Resource Management Specialists and</i> <i>CLMN Regional Coordinator, DNR/UWEX Lakes</i>	

Budget for 2J: \$110.00

Total Expenses: \$0.00

Photos and news releases are included in Appendix A and B.
Some mileage was incurred for the above projects (Tab 4A and Appendix E).

2K: Host 1 public viewing of the non-profit, Emmy Award Winning AIS Documentary "Making Waves: Battle for the Great Lakes." Quarter April-June, July-September. (\$100.00)

In 2017, Stephanie Boismenu (Oneida County AIS Coordinator) and Cathy Higley (Vilas County Invasive Species Coordinator) partnered to host and present a public viewing of the Emmy Award Winning, AIS Documentary "Making Waves: Battle for the Great Lakes." Thirty-six people from multiple counties and states (Oneida-21, Vilas-11, Forest-1, Lincoln-1, and Michigan-2) attended the public viewing, held during Earth Week, at the Three Lakes Center for the Arts. Additionally, LWCD purchased two copies (one for each county) of the DVD, including educational use license and public screening license, for continued educational use.

LWCD had planned on hosting a public viewing in 2018 at the local theater. However, as event plans were being made, the rental cost of the theater drastically increased and was no longer within budget range for this event; therefore the movie was not shown. However, to continue strengthening the AIS awareness in Oneida County, the LWCD partnered with the University of Wisconsin, two local libraries and the Learning in Retirement group to host three book discussion for UW-Madison's 2018 Go Big Read, an all-inclusive book club across Wisconsin.

Go Big Read Book Discussion of "The Death and Life of the Great Lakes" by Dan Egan

The 2018 selection, "The Death and Life of the Great Lakes" by prize-winning reporter Dan Egan, is a compulsively readable portrait of the ecological catastrophe from AIS happening right before our eyes, blending the epic story of the Great Lakes with an examination of the perils they face and the ways we can restore and preserve them for generations to come.

All three programs were open to the public and provided an educational and lively AIS discussion that was facilitated by Tom Jerow, Retired DNR Water Resource Manager, Marcia Obukowicz, WI Master Naturalists, and Stephanie Boismenu, Oneida County AIS Coordinator. Books were available for checkout at the libraries on a first come, first served basis. LWCD purchased a copy of the book that was used as a door prize during the Rhinelander event (charge posted under 2B).

Go Big Read events

10/30/18, Minocqua Public Library	40 attendees
11/12/18, Rhinelander District Library	6 attendees
02/21/19, Pine Lake Town Hall	28 attendees

Budget for 2K: \$100.00

Total Expenses: \$0.00

Press releases are included in Appendix B.

Some mileage was incurred for the above projects (Tab 4A and Appendix E).

3A: Create and distribute an end-of-year report, which will also include an evaluation component. Quarter October-December. (\$105.00)

The Oneida County LWCD created and distributed '2018 Annual Report' to partners, residents, and visitors. All other communication updates were distributed via the AIS "lakes List" (email listserv), the Oneida County AIS webpage, and Facebook page. A copy of the report is included.

Budget for 3A: \$105.00

Total Expenses: \$0.00

Some expenses for printing were incurred (see Appendix G).

3B: Write a minimum of 12 AIS updates and distribute them via the ‘lake contact’ listserv. All Quarters. (\$0)

The Oneida County AIS Program utilizes the electronic AIS “Lake List” and “Media List” (email listservs) to keep partners, lake groups, residents, organizations, and news media updated on the latest news and happenings. In 2018, the “Lakes List” had over 280 email subscribers and the “Media List” had 17 media outlets. Names, email addresses, and other information on the “Lakes List” is kept confidential.

In 2018, 15 AIS updates were electronically sent to the “Lake List” and over 10 media releases were submitted to the “Media List.” In addition, WJFW TV 12 provided special coverage of 4 AIS events and WXPB radio provided coverage for 7 events. This form of communication was frequently commented on at lake association meetings, workshops, and outreach events. It has served as a wonderful tool to keep partners in the loop and acts as a repository of information for all citizens. Updates were often posted to the Oneida County AIS webpage and/or Facebook page. Between the “Listserv, Media List, Oneida County AIS Website and Facebook pages, the estimated total reaches is 1,020,000 people. Copies of updates have been included.

Media outlets include:

TV station: WJFW-TV 12 (11,000 viewers per broadcast)

Newspapers: FYI Northwoods

Forest Republican

Lakeland Times (prints 7500 per issue & has 200 e-news subscribers)

Northwoods River News (prints 3100 per issue & has 100 e-news subscribers)

Rhineland Star Journal

Tomahawk Leader

Vilas County News Review

Radio Stations: WXPB-91.7 FM (20,000 listeners per newscast, 70 mile radius)

WCYE-93.7 FM, WHDG 97.3 FM (NRG Media), WJJQ 92.5 FM, WMQA 95.9 FM (NRG

Media), WNWX 96.5 FM, WOBT 101.3 FM (NRG Media), WRHN 100.1 (NRG Media),

WRJO 94.5 FM, WRLO 105.3 FM (NRG Media)

Other Outlets: Three Lakes Waterfront Association’s newsletter (provided 3 articles, reaches 920 lake association members per issue).

Living on the Lake publication (provided 1 article, reaches 12,500 people per issue).

Oneida County AIS website and Facebook reaches 83148

Budget for 3B: \$0 (No grant funding was needed for this project).

Press releases and updates are included in Appendix B.

3C: Update and improve Oneida County's AIS website and Facebook site. All Quarters. (\$190.00)

In 2012, LWCD's AIS program made their presence known on the web by creating an interactive blog site. Since then, the blog has changed to the Oneida County AIS website www.oneidacountyais.com.

To increase exposure to an even higher level, LWCD also created a Facebook page for the AIS program (175 people following). Throughout 2018, staff members continuously updated both sites to keep viewers in touch with local, regional, and state AIS issues. The AIS Team posted videos and updates to the website and Facebook page throughout the year. Screenshots of both website and Facebook page are included.

In 2018, the LWCD worked closely with the Director of Oneida County's Land Information System to update and maintain Oneida County's AIS and Water Quality Mapping Tool website, which was developed and implemented in 2015. The mapping tool is a repository for AIS and water quality monitoring data collected by the Oneida County AIS Team. Through this mapping tool, users can learn about the health of Oneida County's waterbodies, search geographical distribution of AIS and share their knowledge and information with lake residents, lake associations, and others. Below is the link to the mapping tool.

<https://oneida-county.maps.arcgis.com/apps/webappviewer/index.html?id=c0144697a23243d6beb981727c3e6e2b>

The AIS website and domain name were renewed in 2018. However, this amount will be reported with Grant AEPP 57319.

Budget for 3C: \$190.00

Total Expenses: \$0.00

Photos of screenshots are included (Appendix A).

3D: Host an awards ceremony and partnership meeting. Quarter July-September. (\$800.00)

On August 23, 2018, LWCD hosted the 10th Annual Oneida County Stewardship Awards Ceremony at Holiday Acres, in Rhinelander, WI. The Awards Ceremony is in recognition of our Local Lake Groups, CBCW/CLMN watercraft inspectors, and Invasive Species Superstars, for their efforts towards fighting terrestrial & aquatic invasive species and protecting our lands and waterbodies in Oneida County! Peer nominations, Oneida County AIS Team nominations, and years-of-service awards were recognized.

The theme was “Living on the Edge: Lake Stewardship Initiatives in Oneida County” connected participants to area lakeshore owners and lake associations whose extraordinary efforts have helped to protect and improve water resources for current and future generations.

Sixty people attended the 3½ hour event, which included a buffet meal, guest speakers, and everyone went home with a raffle prize. This yearly awards ceremony has become a popular and important event for Oneida County residents and, because of that, they do not hesitate to donate \$10.00 per person. Raffle prizes were donated by 48 local businesses and the Green Bay Packers.

During the ceremony, 29 individuals were honored for protecting Oneida County’s lands and waterbodies. Of the seventeen recipients, 9 received Lake Stewardship Awards, and 20 received Citizens Lakes Monitoring Network Awards for 5 years, 10 years, 15 years, and 25 years of volunteer service and Century Club (over 100 secchi dips). Guest speaker bios, event invitations, award winners, sign-in sheets, donation list, and media releases are included.

Special guest presenters included:

Alan Van Raalte - Vice Chair, Conservation & UWEX Education Committee, Oneida County presented the Opening Message.

Larod Lodholz - President of PLPOA and Jean Roach - Vice President of PLPOA presented Living on the Edge: Pelican Lake Stewardship Initiatives.

Marcia Obukowicz - Wisconsin Master Naturalist, Citizen Scientist, and Flannery Lake resident presented Wisconsin Master Naturalist in Action.

About the Stewardship Award Winners:

Nominations for the Stewardship Awards are accepted for youth and adult individuals, couples, lake groups, and professionals for their dedication and incredible efforts at fighting terrestrial and aquatic invasive species as well as protecting the health of our lands and waterbodies in Oneida County.

2018 Oneida County Stewardship Award Winners:

VICKI SMITH (Stewardship Recognition Award) – For genuine commitment to the Pelican Lake Property Owner’s Association serving as its Secretary. Her countless hours spent working on the shoreline restoration projects have demonstrated that restoration can be both beautiful and healthy for the lake. Her informative, educational newsletter reaches over 300 members and inspires all lake residents to live in harmony with nature and the watershed.

JEAN ROACH (Stewardship Recognition Award) – For sincere dedication and service to the Pelican Lake Property Owner’s Association as its past President and current Vice President. Her tireless work transformed the Association’s culture through education and stewardship. Her foresight and vision initiated the containment of a Eurasian water milfoil outbreak to restore balance and promote good lake health. She is a beacon of stewardship light in our area.

PAUL MATTHIAE (Exceptional Volunteer and Leadership Recognition Award) – For an extraordinary 18 years of service, a 10-year Board member, and multiple-year Secretary of the Three Lakes Waterfront Association. His direction of the kiosk landing, purple loosestrife, and landing sign projects has made him invaluable to this Association. His efforts as grant writer, watercraft inspector, AIS lake captain and Education Committee Chair demonstrate his exceptional stewardship commitment.

LORI REGNI (Exceptional Volunteer and Lifetime Stewardship Award) – For outstanding achievement in the fight against aquatic and terrestrial invasive species. Oneida County proudly recognizes her ability to educate and inspire stewardship efforts throughout the community. Her leadership role in Oneida, as well as other counties, validates her deep commitment to the citizens of the lakes and lands she strives to protect.

BAKER BRANSON (Leadership and Stewardship Recognition Award) – For outstanding dedication in the effort to recruit Clean Boats Clean Waters monitors for Pelican Lake. His enthusiasm has made him a great asset to the Association. As a leader, mentor, inspector and recruiter, he demonstrates pride in protecting the health of the lake and is a positive role model for current and future Stewards.

JOHN HEUSINKVELD (Outstanding Environmental Educator and Stewardship Award) – For his outstanding contribution as an educator in environmental sciences and the development of innovative, hands-on, educational and stewardship programs that engage youth, adults, and communities. As a former Water Ecology and Fisheries Instructor for UWSP CNR Program at Treehaven, his knowledge and passion for the environment has been inspirational and invaluable to thousands of undergraduates, who now work across the globe in various natural resource fields.

MARCIA OBUKOWICZ (Exceptional Volunteer & Stewardship Award) - For her passion, dedication, knowledge, and endeavors as a Volunteer Citizen Scientist and Wisconsin Master Naturalist. Her tireless efforts to survey and monitor plants, animals, lands, and waters has significantly contributed to a better understand our natural resources and the complexities of management.

DALE KINNEY (Exceptional Volunteer and Leadership Recognition Award) – For persistence in the research, construction, and operation of a Diver Assisted Suction Harvesting (DASH) boat for use in harvesting and eliminating Eurasian water milfoil from Crescent Lake. His passion and determination are admirable as he continues his volunteer efforts to protect the beautiful waters of Oneida County.

CATHY SCHMIDT (Leadership Recognition Award) – For diligently coordinating volunteers, tracking all volunteer hours, and securing grant funding for the fight against Eurasian water milfoil on Lonestone Lake. Her leadership commitment reflects her love for the lake and her desire to see the Northwoods thrive.

2018 Oneida County Citizen Lake Monitoring Award Recipients:

5 YEAR

- ED AND KAREN COTTINGHAM - Big Lake, Oneida County
- HENRY DERLETH - Aldridge Lake, Oneida County
- SCOTT PATULSKI & KRISTINE KRAUSE - Fifth Lake
- HENRY SCHWIESOW - Big Fork Lake, Oneida County
- ALAN SCHWOEGLER - West Horsehead Lake, Oneida County
- ROBERT SUNDELL - Squaw Lake, Vilas and Oneida County
- KEN ZATOR - Maple Lake, Oneida County
- LYNN AND LARRY ZIBELL - Virgin Lake, Oneida County

10 YEAR

- KENT BRADSHAW - Two Sisters Lake, Oneida Co.
- DAN AND SUE PAGEL - Blue Lake
- KARYL ROSENBERG - Tom Doyle Lake, Oneida Co.
- NOREEN ROSSA - Townline and Planting Ground Lakes, Oneida County
- ROGER SMITH - Mid Lake, Oneida Co.

15 YEARS

- PAM MCVETY - Lake George
- GLEN RIESS - Hasbrook Lake

25 YEARS

- ALLEN & ROSEMARY TOUSSAINT - Alva Lake, Oneida County

CENTURY CLUB (OVER 100 SECCHI DIPS)

- SCOTT JANSSEN - Windpudding Lake

Budget for 3D: \$800.00

Payee and Expenses:

Invoice from Holiday Acres Rest for cost for Awards Ceremony (Includes facilities expense, equipment, supplies, etc.)	\$1,200.06
Minus donations	<u>(\$380.00)</u>
Total Expenses	\$820.06

Photos and press releases are included in Appendix A and B.
Some printing and mileage were incurred for the above projects (Appendix E).

3E: Coordinate the 7th Annual ‘Northwoods Invasive Species Poster Contest’. Increase student and partner participation from 2017 contest. Contest began as a 1- county event in 2012 and has grown significantly. In 2017 LWCD received 466 posters to encompass 36 classes from 22 different schools in 10 partnering counties. Quarter April-June. (\$690.00)

586 posters submitted

Now in its seventh year (2018), the ‘Northwoods’ Invasive Species Poster Contest’ is open to any student in fourth through eighth grades as well as expanded to include other partners throughout the Northwoods. The 2016 contest was hosted by The Oneida County LWCD and the Lumberjack Resource Conservation Development Council in partnership with Timberland Invasive Partnership, Northwoods Coop Weed Management Area, WI Headwaters Invasive Partnership, and Bayfield, Forest, Iron, Langlade, Price, and Vilas County Conservation Departments. The additional partnership has helped to increase invasive species education as well as the popularity and competitiveness of this contest. In 2014, 198 posters were entered, in 2015, 392 poster from 15 classrooms were entered, and in 2016, 467 posters were entered from 15 different schools, representing 23 classrooms and 7 counties. In 2017, a record 466 posters were entered from 22 different schools, representing 36 classrooms and 10 counties. In 2018, a record 586 posters were submitted from 34 classes, representing 21 different schools in eight counties.

Trophies were awarded to 1st, 2nd, and 3rd place posters in four different divisions: Grade 4; Grade 5; Grade 6; and Grades 7 & 8. There were also ribbons provided for those students who received Honorable Mention posters and best slogans. The 1st place winners had a local AIS Team bring a celebration to their classroom (this might have included ice cream, cookies, or other treats). Additionally, the AIS Teams presented the winning classrooms with another surprise: a copy of ‘*Through the Looking Glass*’ was presented to the school library on behalf of the winning classroom. Additionally, winning entries became part of an AIS poster calendar, designed and distributed throughout the Northwoods. We hope to see many more entries in the future from competing schools throughout Northern Wisconsin! Poster contest brochure, a list of winners and participating classes, media releases, and 2016 Invasive Species Poster Contest calendar are included.

Northwoods’ Invasive Species Poster Calendar Design and Distribution

The LWCD designed, printed, and distributed an AIS poster calendar that featured the winning posters and slogans. The calendar was presented to participating classrooms and partners.

Budget for 3E: \$690.00

Payee and Expenses:

Oshkosh Trophy:	Trophies	\$119.34
Walgreens:	Classroom supplies	\$107.85
Trigs:	Classroom supplies for 1 st place winner	\$ 30.00
Chicago Distribution:	Books for prizes: ‘Guide to WI Streams’ (3 copies)	\$ 67.62
Amazon:	Books for prizes: ‘Insects of the Upper Midwest’	\$ 17.14
Feight’s Trophies:	Honorable Mention ribbons	\$ 42.75
Total Expenses		\$384.70

Photos, press releases, and copy of the calendar are included in Appendix A, B, and C. Some mileage was incurred for the above projects (Appendix E).

3F: Review, evaluate, revise Oneida County AIS Strategic Plan. Increase and diversify partnerships to implement the plan. All Quarters. (\$0)

The LWCD is currently rewriting the Oneida County Land and Water Resource Management Plan and is due to be finished in 2019. Upon completion, the AIS Strategic Plan will also be updated. LWCD continues to work on obtaining new partners and updating a partner list. The AIS 'Lakes List' has grown to over 280 contacts, regional and school partners continue to grow (the AIS poster contest is now active in *twelve* counties across Northern Wisconsin). Nearby county relationships continue to expand by working with local groups such as the Three Lakes Waterfront Association, Hazelhurst Unified Lakes Group, Treehaven-UWSP, and with several Cooperative Invasive Species Management Areas (CISMA's); notably Wisconsin Headwaters Invasive Partnership (WHIP), Northwoods Cooperative Weed Management Area, and Timberland Invasive Partnership.

In 2018, the LWCD collaborated on AIS projects with volunteers from Oneida County Lakes and Rivers Association (OCLRA), WHIP, Timberland Invasive Partnership, and Lumberjack RC&D. Rosie Page, Coordinator for WHIP, provided 3 hours towards Invasive Species Roadshow. Additionally, OCLRA spent a great deal of time writing, editing, and distributing the publication 'Doing the Right Thing for Our Lakes and Rivers.' This publication offers property owners the opportunity to understand how and why they may wish to protect their shoreline and provides guidance for all who love to use our lakes and rivers.

Additionally, LWCD is proud, and fortunate to maintain support and collaboration through its statewide partnerships with the WDNR, UW Extension Lakes, River Alliance of Wisconsin, and Wisconsin Lakes Partnership. LWCD continues to work with our partners on a number of projects, notably the 'Draining Campaign', 'Landing Blitz', 'Bridge Snapshot Day', 'CBCW Boater Behavior Project', 'Bait Dealer Initiative' and watercraft inspections. These valuable partnerships increase the success of keeping AIS out of Oneida County and/or reducing the spread of AIS within Oneida County's borders.

Budget for 3F: \$0 (No grant funding was needed for this activity).

Photos, donated labor worksheets, and commitment letters are included in Appendix A and H.

4A: Hire three LTE's to perform monitoring, restoration, and outreach projects. LTE's to monitor a minimum of 15 waterbodies using CLMN and DNR AIS early detection monitoring and water quality monitoring protocols. Data collected to be entered into SWIMS. LTE's will be responsible for CBCW inspections, AIS monitoring, distributing outreach materials, leading/participating in student and adult educational field events, workshops, etc. LTE's will assist AIS Coordinator in managing pioneer populations of AIS. LTE's will perform equipment decontamination following DNR protocols. Two 500 hr., \$12/hr. LTE positions will be available for students (one position will be funded by AEPP-507-17 and is NOT financially in this grant application). One LTE position is for 500 hrs., \$14/hr. This position will be a field supervisor w/experience and may be responsible for end-of-season reporting and data entry (Sept.) and early season projects (April). Quarters April-June, July-September. (\$400.00) (total \$23,600.00)

In 2018, Aubrey Nycz returned as the AIS Lead Project Assistant, Thomas Boisvert returned as AIS Project Assistant and Jody Partin and Vanessa Niemczyk were hired as AIS Project Assistants.

Nycz started May 23, 2018 and finished her 527.50 hours on August 23, 2018 (217.50 hours were claimed on AEPP 50717). Boisvert started July 11, 2018 and finished his 347.00 hours on August 26, 2018 (65.00 hours were claimed on grant AEPP 50717). Partin started May 7, 2018 and finished her 533.00 hours on September 7, 2018 (219.50 hours were claimed on grant AEPP 50717). Niemczyk started May 18, 2018 and finished her 362.00 hours on July 25, 2018 (234.00 hours were claimed on grant AEPP 50717).

Oneida County LWCD is claiming 2018 wages for Nycz \$4,887.68 (310.00 hours), Boisvert \$3,811.04 (282.00 hours), Partin \$4,236.76 (313.50 hours) and Niemczyk \$1,729.84 (128.00 hours). These 2018 wages of the above four employees will satisfy project 4A in AEPP 54418.

All four LTE's helped conduct workshops, distributed and installed educational materials, presented at lake association meetings and/or tournament meetings, assisted at lake fairs and other community events, and monitored for AIS and water quality on 24 lakes and conducted AIS checks at 11 boat landings. They contributed articles to the AIS newsletters and provided updates to the AIS website and Facebook page. Additionally, assistants managed PL and YI populations, Highway 8 Phragmites site, worked with local lake groups to help monitor AIS populations, and provided rapid response to citizens reports of new AIS populations.

Individual projects were also accomplished by each assistant. Nycz and Boisvert designed and created SAH wristbands and SAH lanyards that were used as outreach items. Nycz created a brochure called "Purple Loosestrife and its Native Look-A-Likes. This two-sided brochure was created to help people identify PL and 7 of the most common native look-a-like plants found in the Northwoods. Nycz was the field leader and worked extensively with lake monitoring, mapping and report management. Nycz also worked on the AIS year-end report, created a handout for fishing tournaments, and updated a Spiny Water Flea poster that she designed the previous year, to utilize as an educational tool during watercraft inspections and at various events. All assistants were required to write a weekly synopsis of accomplishments (included in Tab 4A).

LAKE MONITORING

The AIS Team visited 24 lakes to perform baseline water quality testing and AIS early detection monitoring. Of the 24 lakes monitored, the AIS Team identified, mapped, and reported 3 new occurrences of Chinese mystery snails and 1 new occurrence of PL. Sample of report included, all reports can be found at www.oneidacountyais.com. List of lakes monitored is on the following pages and lake monitoring reports are included Appendix D.

Program Description: The Oneida County AIS Program monitors Oneida County lakes for the presence of aquatic invasive plants, animals, and organisms and obtains baseline water quality data. Early detection of AIS is crucial for rapid response, containment, and management. Obtaining baseline water quality data provides an indicator of each lakes current health and documents changes in water quality over time. Lake monitoring is in collaboration with the Department of Natural Resources (DNR) “200 Lakes Project”, UW Extension’s Citizens Lake Monitoring Network Program (CLMN) and Great Lakes Indian Fish Wildlife Commission (GLIFWC). The AIS Team follows the DNR’s monitoring protocols and collected data is entered into the DNR’s data base.

Data Collected: Suspected invasive species samples, AIS high-risk areas, Secchi disk readings, dissolved oxygen, water temperature, water column appearance, water color, and perception of water quality, shoreline and woody habitat notes, and GPS coordinates.

Observed: Perimeter of whole lake’s littoral zone, including beaches and boat landings, inlets, and outlets, under and around docks and piers. Snorkeling 200 feet of shoreline and littoral zone of the high-risk areas.

Methodology: Visual surveys are conducted around the entire shoreline’s littoral zone. Several methods are used to achieve the survey: survey from the canoe, walking along the shoreline and shallow areas, use the aqua view scopes, sift through vegetation, check underwater solid surfaces, and snorkeling 200 feet of shoreline and littoral zone at designated points (high-risk areas). Occasionally, a lake association volunteer will assist the AIS Team by driving the Team around the lake in a motor boat to perform monitoring activities including spiny water flea and zebra mussel veliger tows.

Monitoring waterbodies adjacent to State Natural Areas and Other Public Lands: Of the 24 lakes monitored, 14 lakes are adjacent to public lands.

BOAT LANDINGS MONITORED FOR AIS

The AIS Team monitored 11 boat landings for AIS. Protocol for monitoring boat landings is the same for lake monitoring, minus baseline water quality data. List of landings monitored is included.

RESPONDING TO NEWLY DETECTED POPULATIONS OF SUSPECTED AIS

During the 2018 season, the AIS Team responded rapidly to newly detected AIS as well as to citizens’ reports of possible new AIS sightings. This includes PL, YI, and Chinese mystery snails. The Team identified, photographed, mapped, collected, reported, vouchered, and communicated suspected AIS. Additionally, the Team provided case-specific communications as well as monitoring and management guidance and/or assistance as needed.

2018 Lakes and Boat Landings Monitored by the Oneida County AIS Team (does not include AIS rapid response monitoring)									
KEY: AIS: AFMN = Aquatic Forget-Me-Nots, BMS = Banded Mystery Snails, CLP = Curly Leaf Pondweed, CMS = Chinese Mystery Snails, EWM = Eurasian Watermilfoil, FJ = Freshwater Jellyfish, FR = Flowering Rush, HC = Hybrid Cattail, HEWM = Hybrid Eurasian Watermilfoil, OWL = Ornamental Water Lily, NLC = Narrow Leaf Cattail, PL = Purple Loosestrife, RC = Rusty Crayfish, RMG = Reed Manna Grass, YI =									
Public Land: SNA = State Natural Area, SF = State Forest, NF = National Forest, ST = State Trail, CF = County Forest									
# of water	Lake Name	WBIC #	Date Monitored	Landing Only?	Size (acres)	Present AIS	New AIS	Public Land?	Field Staff
1	Emma Lake	983500	06/14/18	No	227	None	None	None	Stephanie Boismenu, Aubrey Nycz, Vanessa Niemczyk, Jody Partin
2	Bearskin Lake	1523600	07/11/18	No	403	CMS, RC	None	ST	Stephanie Boismenu, Aubrey Nycz, Thomas Boisvert, Jody Partin
3	Birch Lake	1523800	08/16/18	No	198	RC	CMS	SF	Aubrey Nycz, Jody Partin
4	Bird Lake	972000	07/06/18	No	97	None	None	SF	Aubrey Nycz, Jody Partin
5	Booth Lake	1537800	08/18/18	Yes	204	CMS, NLC, PL, RC	None	None	Thomas Boisvert, Local Volunteers
6	Buckskin Lake	2272600	08/18/18	Yes	642	CMS, NLC, PL	None	None	Thomas Boisvert, Local Volunteers
7	Clear Lake	977500	08/18/18	Yes	873	CMS, FJ, PL, RC	None	SF	Stephanie Boismenu, Aubrey Nycz, Volunteers
8	Flannery Lake	985300	08/01/18	No	107	None	None	None	Aubrey Nycz, Thomas Boisvert, Jody Partin
9	Gilmore Lake	1589300	07/05/18	Yes	314	CMS, CLP, HC, NLC	None	SF	Aubrey Nycz, Thomas Boisvert
10	Ginty Lake	1571300	07/06/18	Yes	138	CMS	None	None	Aubrey Nycz, Derek Thorn
11	Hanson Lake	988200	07/18/18	No	35	None	None	None	Aubrey Nycz, Thomas Boisvert
12	Hasbrook Lake	1589100	08/18/18	Yes	307	RC	YI	SF	Jody Partin, Local Volunteers
13	Hixon Lake	1568900	07/18/18	No	58	None	None	None	Aubrey Nycz, Thomas Boisvert
14	Lake Tomahawk	1542700	08/09/18	Yes	3462	AFMN, BMS, CMS, CLP, EWM, PL, RC, YI	None	SNA, SF	Stephanie Boismenu, Aubrey Nycz, Thomas Boisvert, Jody Partin
15	Langley Lake	1583500	07/18/18	No	49	None	None	NF	Aubrey Nycz, Thomas Boisvert
16	Little Tomahawk	1543900	07/25/18	No	163	EWM, CMS, RC, NLC	PL	SNA, SF	Aubrey Nycz, Jody Partin
17	Long Lake	1544700	08/02/18	No	113	None	None	SNA	Aubrey Nycz, Jody Partin
18	McGrath Lake	1003900	07/26/18	No	51	None	None	SF	Aubrey Nycz, Thomas Boisvert
19	McNaughton Lake	1587600	08/16/18	No	121	PL	None	SF	Aubrey Nycz, Thomas Boisvert, Jody Partin
20	Mud Lake	1544000	07/25/18	No	41	None	CMS	SNA, SF	Aubrey Nycz, Jody Partin
21	Oscar Jenny	1009100	07/05/18	No	101	None	None	None	Aubrey Nycz, Jody Partin
22	Pelican Lake	1579900	06/20/18	Yes	3,545	AFMN, BMS, CMS, CLP, EWM, HC, OWL, PL, RC, YI	None	None	Aubrey Nycz, Vanessa Niemczyk, Jody Partin
23	Pickereel Lake	1583000	07/26/18	No	61	CMS	None	None	Aubrey Nycz, Thomas Boisvert
24	Pickereel Lake	1590400	08/18/18	Yes	581	AFMN, BMS, CMS	None	SF	Jody Partin, Local Volunteers
25	Sand Lake	1015800	08/15/18	No	37	None	None	None	Aubrey Nycz, Jody Partin
26	South Blue Lake	1015100	06/22/18	No	76	None	None	ST	Aubrey Nycz, Vanessa Niemczyk
27	Spider Lake	1586600	06/22/18	No	123	None	None	SF	Aubrey Nycz, Vanessa Niemczyk
28	Squaw Lake	2271600	08/18/18	Yes	736	CMS, PL, RC	AFMN	NF	Thomas Boisvert, Local Volunteers
29	Stella Lake	1575700	06/28/18	No	415	CMS	None	None	Aubrey Nycz, Vanessa Niemczyk
30	Sureshot Lake	1021000	08/10/18	No	19	PL, RMG, YI	None	SF	Aubrey Nycz, Thomas Boisvert
31	Swamp Lake	1522400	07/05/18	No	293	None	None	None	Aubrey Nycz, Jody Partin
32	Swanson Lake	1138800	08/09/18	No	21.5	None	None	SF	Aubrey Nycz, Thomas Boisvert
33	Sweeny Lake	1589600	08/18/18	Yes	191	CMS, PL	NLC	SF	Jody Partin, Local Volunteers
34	Turtle Lake	1587400	07/26/18	No	52	None	CMS	SF	Aubrey Nycz, Thomas Boisvert
35	Velvet Lake	1176500	08/01/18	No	34	None	None	None	Aubrey Nycz, Thomas Boisvert, Jody Partin

AIS Events

During the 2018 season, the AIS Team hosted and/or attended the following AIS related events:

	# of participants
2018 Workshops Hosted by Oneida County AIS	
04/26/18 CBCW Rhinelander	39
05/24/18 CBCW Three Lakes	11
05/29/18 CBCW Crescent Lake	10
06/06/18 CBCW Woodruff	12
06/07/18 CBCW Lake Nokomis	5
07/18/18 CBCW Boom Lake- Headwaters Project	5
05/19/18 PLPOA Z.M. workshop	7
06/07/18 Decontamination Workshop (provided boats)	10
06/29/18 SLA - AIS Workshop	6
07/05/18 CLMN AIS workshop	3
07/06/18 TLWA Adopt-A-Shoreline workshop	30
09/21/18 ID Day	4
10/04/18 Native Plant Transplant workshop	5
11/06/18 Seed Sowing Party	7
14 workshops	154

2018 AIS Events and Presentations Provided by AIS Coordinator

01/12/18 AIS presentation at Committee meeting	0
03/12/18 AIS presentation at Committee meeting	0
03/15/18 LWC Conference-Lake Geneva	20
04/07/18 Northern Highland Citizen Science	75
04/19/18 Lakes Convention Poster Presentation	500
04/20/18 Lakes Convention Oral Presentation	60
04/23/18 Live at 5 - at WJFW	0
06/30/18 Stella Lake Assoc Annual meeting	25
07/05/18 TLWA Annual meeting	100
07/09/18 AIS presentation at Committee meeting	0
07/13/18 Booth/display at OCLRA Annual meeting	60
08/13/18 AIS presentation at Committee meeting	0
08/23/18 Awards Banquet	60
09/21/18 Hodag Musky Challenge	220
10/08/18 AIS presentation at Committee meeting	0
10/25/18 AIS meeting with student at Nicolet College	1
10/30/18 Go Big Read - AIS presentation - Minocqua Library	25
11/12/18 AIS presentation at Committee meeting	0
<u>11/12/18 Go Big Read - AIS presentation - Rhinelander Library</u>	<u>5</u>
	1151

2018 AIS Field Events and Campaigns

01/01/18	Ice Angler Survey (four lakes)	146
05/30/18	PL Beetle Collecting for Golden Sands	1
05/31/18	TLWA PL Biocontrol Day	10
06/07/18	Decontamination workshop	15
06/28/18	monitor Phragmites - Harbor Drive	4
June 1-3	Drain Campaign	20
June 29- July 4	Landing Blitz	20
07/11/18	EDR Monitoring - EWM in Big Bearskin	4
07/19/18	PL Beetle Release in Three Lake	5
07/20/18	EDR monitoring - EWM & pink Lilly in Pelican	3
08/04/18	Boater Behavior Study	11
08/09/18	EDR monitoring - ZM in Lake Tomahawk	5
08/11/18	Mussel Bioblitz	7
08/11/18	TLWA Kids Fishing Event	100
08/11/18	Lake Nokomis Members Banquet	400
08/18/18	<i>AIS Snapshot Day</i>	13
<u>08/31/18</u>	<u>EDR monitoring - PL in Sugar Camp</u>	<u>2</u>
		766

- CBCW Workshops described in 2A
- CLMN workshop described in 2B, 2J, and 4E
- Statewide AIS Campaigns described in 2F
- Conducted CBCW watercraft inspections described in 2G
- Youth events described in 2H
- Annual Stewardship Awards Banquet described in 3D
- Northwoods Invasive Species Poster Contest described in 3E
- Prevent the introduction and spread of AIS and provide AIS control, management and restoration described in 4A, 4B, 4C, 4D, and 4E.

Additional events and activities

August 11, 2018, Mussel Monitoring Bioblitz, Three Lakes

6 attendees

The DNR’s Wisconsin Mussel Monitoring Program and Oneida County AIS Program hosted this volunteer Citizen Based Monitoring Bioblitz to investigate the distribution of the Eastern Pondmussel, which is a new species to Wisconsin and recently identified in the Three Lakes Chain. This daylong event provided volunteers with a classroom and field component. The classroom consisted of native and invasive mussel species education and identification. Then the group broke out into two teams. Both teams went to four lakes and spent at least 15 minutes searching in the water near the boat launch for any mussel species, especially Eastern Pondmussels. Neither team found any AIS. The Eastern Pondmussel was identified on three of the lakes, which was great because they were previously undocumented there and they are a declining species in most of North America.

September 22, 2018IS Presentation - Hodag Musky Challenge Tournament Rules meeting

400 attendees (200 boats on 11 lakes in Oneida County)

Boismenu provided an AIS presentation and outreach items to over 400 attendees during the tournament rules meeting.

November 6, 2018, Seed Sowing Party, Oneida County Courthouse

6 attendees

The AIS Team hosted the 2nd annual Seed Sowing Party at the Oneida County Courthouse. What are the seeds for? The Oneida County Land & Water Conservation Team and the Aquatic Invasive Species (AIS) Team have been working on several habitat restoration projects throughout the county, varying from AIS-affected sites to roadside pollinator habitat sites. In our quest to build rich populations of native plants for these sites, we have been busy bees collecting local native seeds to germinate and need your help getting the seeds ready for their long winter’s nap.

Budget for 4A: Supplies	\$ 400.00
Wages and Benefits	\$14,641.00
<u>Mileage</u>	<u>\$ 4,469.00</u>
Total	\$19,510.00

Supplies: Payee and Expenses:

Menards:	Contractor trash bags for pl	\$ 17.76
Amazon:	LTE supplies	\$ 90.97
Lawrence Enterprise:	LTE supplies: Aqua View Scopes	\$145.70
Menards:	LTE supplies	\$172.75
Trigs Ace Hardware:	AIS decontamination supplies	\$ 54.99
<u>RainWriter:</u>	<u>Rite in the Rain waterproof s notebooks, pens & refills</u>	<u>\$ 38.75</u>
Total Expenses		\$520.92

Wages and Mileage:

	<i>Year</i>	<i>Hours</i>	<i>Wages</i>	<i>Mileage</i>
Aubrey Nycz	2018	310.00	\$ 4,887.68	\$ 221.29
Thomas Boisvert	2018	282.00	\$ 3,811.04	\$ 217.47
Jody Partin	2018	313.50	\$ 4,236.76	\$ 472.60
Vanessa Niemczyk	2018	128.00	\$ 1,729.84	\$ 93.21
Isaac Benz	2019	0.00	\$ -	\$ 823.95
Aubrey Nycz	2019	0.00	\$ -	\$ 49.88
<u>Lauren Radtke</u>	<u>2019</u>	<u>0.00</u>	<u>\$ -</u>	<u>\$ 211.12</u>
		1033.50	\$ 14,665.32	\$ 2,089.52
				\$ -
Stephanie Boismenu				
<u>mileage (see Appendix E)</u>	<u>2018</u>			<u>\$ 1,193.62</u>
				\$ 3,283.14

Total Expenses for 4A:

LTE Supplies	\$ 520.92
LTE Wages:	\$14,665.32
<u>LTE and AIS Coordinator Mileage</u>	<u>\$ 3,283.14</u>
Total Expenses	\$18,469.38

Photos, media articles, educational material, monitoring reports, and donated labor worksheets are included in Appendix A, B, C, D, and H.

4B: Continued control/restoration/monitoring of Yellow Iris (YI) and Purple Loosestrife (PL) sites. In particular; Hodag Park, Big Carr/Little Carr (SNA), Planting Ground, Lake Tomahawk, Quality Inn, and Crescent sites. Additionally, aim to assist 3 private citizens in restoration initiatives. Quarters April-June, July-September. (\$50.00)

In 2018, the AIS Team controlled and managed YI and PL populations including PL biological control methods, worked with local lake groups to help monitor AIS populations, and provided rapid response to citizen’s reports of new AIS populations. The Team also contributed YI and PL educational articles to the AIS newsletters and provided updates to the AIS website and Facebook page.

Yellow Iris

In 2018, The AIS Team removed and managed YI at several locations throughout Oneida County including sites at Indian Mounds boat landing, Stacks Bay boat landing, and Boom Lake boat landing at Hodag Park.

Purple Loosestrife

In 2018, LWCD managed PL throughout Oneida County by removing single and small groups of plants, clipping blossoms and seed heads, and rearing and releasing 20,000 PL beetles (see SWIMS data below). Additionally, the AIS Team provided PL education, outreach, and rapid response to citizens’ reports of PL sightings.

PL data entered in SWIMS:

Subtype	If_other	Label	Location	LakeName	Comments	Date_	Treatment	Latitude	Longitude	AIS Field Crew
PL	Obtained 70 plants	PL	Quality Inn		Obtained 70 PL host plants	05/31/18		45.63382	-89.433607	Steph, Aubrey, Vanessa
PL	Set up 70 host plants		Three Lakes Petro Museum, 2141 Wykowski Rd, Three Lakes, WI 54562		Delivered PL host plants to rearing site	05/31/18				Steph, Aubrey, Vanessa
PL	Obtained 1600 starter beetles		Three Lakes Petro Museum, 2141 Wykowski Rd, Three Lakes, WI 54562		Applied 1,600 starter beetles to host plants	06/08/18				Aubrey, Vanessa
PL	5 plants		Kurt’s Island Sport Shop		Minocqua Hwy 51	07/19/18	Beetle Release			Jody, Vanessa
PL	5 plants		Beaver lodge	Maple Lake	Beetle Release	07/19/18	Beetle Release	45.80415	-89.16966	Aubrey, Tom, Jody, Vanessa
PL	29 plants		wetland	Planting Ground Lake	Beetle Release	07/19/18	Beetle Release	45.83897	-89.16686	Aubrey, Tom, Jody, Vanessa
PL	5 plants	PI	Highway 8	side of road	5 plants	07/20/18	Clipping	45.58185552	-89.20978701	Steph, Aubrey & Jody
PL	3 plants	PI	Highway 8	side of road	3 plants	07/20/18	Clipping	45.58624266	-89.24388941	Steph, Aubrey & Jody
PL	5 plants	PI		Big Carr Lake		07/25/18	Clipping	45.79675848	-89.62434878	Aubrey & Jody
PL	3 plants	PI		Little Carr Lake		07/25/18	Clipping	45.79681379	-89.62395598	Aubrey & Jody
PL	1 plants	PI		Little Carr Lake		07/25/18	Clipping	45.79678757	-89.62358376	Aubrey & Jody
PL	1 plant	PI	mud lake channel	Mud Lake		07/25/18	Clipping	45.79997048	-89.64681663	Aubrey & Jody
PL	3 plants	PI		Little Tomahawk		07/25/18	Clipping	45.79881995	-89.64265705	Aubrey & Jody
PL	4 plants	PI	hwy 8 and 47			08/02/18	Clipping	45.63127661	-89.4386889	Steph & Jody
PL	clipped massive amounts of PL	PI	Quality Inn		Quality Inn, Rhinelander	08/09/18	Clipping	45.63381951	-89.43360695	Steph & Jody
PL		PI	Evergreen Ct - Snowtrail		NE Roadside survey	08/09/18	PL Removal	45.71719156	-89.52283695	

In 2018, the AIS Team updated a brochure called “Purple Loosestrife and its Native Look-A-Likes”. This two-sided brochure helps citizens correctly identify PL from the most common native look-a-like plants found in the Northwoods. Additionally, The AIS Team distrusted a brochure called “Plant This Instead” that the Team designed in 2013. This brochure was created as an educational tool for restoration of YI and PL affected wetlands and shorelines and features YI, PL and their native look-alikes that can be planted instead of the invasive.

Both brochures were distributed at lake fairs, lake association meetings, and other water-related events, posted on the AIS website and Facebook page. Additionally, LWCD continued to obtain and distribute restoration materials, including 'Protecting your Waterfront Investment'.

Budget for 4B: \$50.00

Total Expenses: \$ 0.00

Photos and brochures are included in Appendix A and C.

Some mileage was incurred for the above projects (Tab 4A and Appendix E).

**4C: Continue restoration/monitoring of PROHIBITED invasive plant species sites.
Phragmites: HY 8, roadside stand, HY 70, private property adjacent to Tomahawk River.
Glyceria maxima: Sureshot Lake. Quarters April-June, July-September. (\$50.00)**

Variegated Reed Mana Grass (Glyceria maxima var. variegata)

In September of 2015, Stephanie Boismenu, Lead AIS Project Assistant at the time, and Sara Mills, AIS Project Assistant, visited Sureshot Lake to follow-up a report of a suspected AIS population of variegated reed mana grass. They discovered the invasive growing along the west shore in 1-3 feet of water, rooted in muck substrate. The Team hand-harvested all of the plants, including root mass, totaling 15 plants. The specimens submitted to the DNR received positive confirmation of *Glyceria maxima* var. *variegata*. The Team also harvested Purple loosestrife from the same area as were the *Glyceria* was growing.

On August 15, 2016, Stephanie Boismenu (AIS Coordinator) returned to Sure Shot Lake to monitor for *Glyceria* and did not find any. In 2017 and 2018, the AIS Team visited Sureshot Lake and did not find any *Glyceria*.

Phragmites australis

In 2013, Oneida County LWCD identified a 0.05-acre pioneer population of the invasive, non-native *Phragmites australis*. The site is located in a marshy, wetland area at the bottom of a concrete run-off ditch, along Highway 8 just west of Rhinelander. The site extends across both WI Department of Transportation (WDOT) highway right-of-way property and private property.

Control efforts have included two herbicide treatments that were applied September 22, 2014, and again on September 18, 2015, by a private herbicide applicator contracted by the WDNR. Both herbicide treatments provided effective control of the *Phragmites* stand.

From 2014-2018, LWCD visited the site 16 times to monitor for post-herbicide treatment regrowth. Additionally, the LWCD prepared the site for restoration by removing the biomass of dead, standing stalks, and observing the sites ecological health to determine which native plant species would improve the health and function of the ecosystem to a natural state.

The complete report 'Control, Management, and Restoration of the Highway 8 *Phragmites* Site 2013-2017 Report' is included.

Budget for 4C: \$50.00

Expenses: \$0.00

Photos are included in Appendix A.

Some mileage was incurred for the above projects (Appendix E).

4D: Coordinate a Purple Loosestrife (PL) biocontrol project. Project will be targeted at containing larger populations that cannot be hand-pulled. Smaller PL populations will continue to be controlled via flower-clipping and hand-digging. Quarters April-June, July-September. (\$50.00)

In 2018, the AIS Team dug-up 70 PL “host” plants from the rear of the Quality Inn in Rhinelander and transplanted into containers. The plants were then transported to our PL rearing site, located at the Three Lakes Petro Museum in Three Lakes, WI. The plants were housed in a 12’x12’x6’ cage on loan from the DNR and the potted plants were placed inside kiddie pools. At the end May, LWCD received 1,600 starter beetles from the DNR.

Norris Ross, volunteer with Oneida County Lakes and Rivers Association and volunteers from the Three Lakes Waterfront Association assisted the AIS Team with PL biocontrol potting, beetle rearing, release of beetles on Planting Ground Lake and PL mapping throughout the Three Lakes Chain.

On July 5, 2018, Stephanie Boismenu provided an “Three Lakes PL Biocontrol Update” during the Three Lakes Waterfront Associations annual meeting. She provided a history of PL, description of the biocontrol process, and a power point presentation provided the audience with a photo journal of the PL biocontrol activities in Three Lakes. A copy of the power point is included in Appendix A.

The AIS Team provided PL management at numerous locations around the county. Below is a list of PL management and beetle data that was entered into SWIMS.

Subtype	If_other	Label	Location	LakeName	Comments	Date	Treatment	Latitude	Longitude	AIS Field Crew
PL	Obtained 70 plants	PL	Quality Inn		Obtained 70 PL host plants	05/31/18		45.63382	-89.433607	Steph, Aubrey, Vanessa
PL	Set up 70 host plants		Three Lakes Petro Museum, 2141 Wykowski Rd, Three Lakes, WI 54562		Delivered PL host plants to rearing site	05/31/18				Steph, Aubrey, Vanessa
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PL	5 plants		Kurt's Island Sport Shop		Minocqua Hwy 51	07/19/18	Beetle Release			Jody, Vanessa
PL	5 plants		Beaver lodge	Maple Lake	Beetle Release	07/19/18	Beetle Release	45.80415	-89.16966	Aubrey, Tom, Jody, Vanessa
PL	29 plants		wetland	Planting Ground Lake	Beetle Release	07/19/18	Beetle Release	45.83897	-89.16686	Aubrey, Tom, Jody, Vanessa
PL	5 plants	PI	Highway 8	side of road	5 plants	07/20/18	Clipping	45.58185552	-89.20978701	Steph, Aubrey & Jody
PL	3 plants	PI	Highway 8	side of road	3 plants	07/20/18	Clipping	45.58624266	-89.24388941	Steph, Aubrey & Jody
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PL	3 plants	PI		Little Carr Lake		07/25/18	Clipping	45.79681379	-89.62395598	Aubrey & Jody
PL	1 plants	PI		Little Carr Lake		07/25/18	Clipping	45.79678757	-89.62358376	Aubrey & Jody
PL	1 plant	PI		mud lake channel	Mud Lake	07/25/18	Clipping	45.79997048	-89.64681663	Aubrey & Jody
PL	3 plants	PI			Little Tomahawk	07/25/18	Clipping	45.79881995	-89.64265705	Aubrey & Jody
PL	4 plants	PI		hwy 8 and 47		08/02/18	Clipping	45.63127661	-89.4386889	Steph & Jody
PL	clipped massive amounts of PL	PI	Quality Inn		Quality Inn, Rhinelander	08/09/18	Clipping	45.63381951	-89.43360695	Steph & Jody
PL		PI	Evergreen Ct - Snowtrail		NE Roadside survey	08/09/18	PL Removal	45.71719156	-89.52283695	

Budget for 4D: \$50.00

Payee and Expenses:

Menards:	Supplies for PL management	\$ 2.69
<u>Trigs Ace Hardware:</u>	<u>Supplies for PL management</u>	<u>\$20.17</u>
Total Expenses		\$22.86

Photos are included in Appendix A.

Some mileage was incurred for the above projects (Tab 4A and Appendix E).

4E: LWCD to coordinate and implement the Pelican Lake CLMN Zebra Mussel Monitoring project with the Pelican Lake Property Owners Association (PLPOA), to include 1 workshop. In 2015, LWCD discovered two dead zebra mussel shells at Pelican Lakes Hwy G boat landing. From 2015 - 2017, the DNR and LWCD staff performed limited zebra mussel monitoring on Pelican Lake, which resulted in no occurrences of zebra mussels. Pelican Lake is located 19 miles to the west of zebra mussel infested Lake Metonga (Forest County). Quarters April-June, July-September. (\$60.00)

In the fall of 2015, on two separate occasions, the AIS Team discovered one-half of a zebra mussel shell at the State Landing on Pelican Lake. In response to the discoveries, LWCD worked closely with the DNR, CLMN and the Pelican Lake Property Owners Association to develop and implement a CLMN Volunteer Zebra Mussel Monitoring program on Pelican Lake.

Pelican Lake resident, David Hardt, was the volunteer coordinator for this project and recruited 11 volunteer zebra mussel monitors from all around Pelican Lake (plus David = 12 volunteers). The 12 volunteers deployed samplers under their docks and spent over 40 hours conducting visual shoreline surveys and inspections of structures for the presence or absence of adult zebra mussels. **No evidence of zebra mussels were found in Pelican Lake.**

On May 19, 2018, LWCD hosted a Pelican Lake CLMN Zebra Mussel Monitoring Training to prepare volunteers for their monitoring activities. Instructors included Sandy Wickman, Water Resource Management Specialists and CLMN Regional Coordinator with the DNR/UWEX Lakes, and Stephanie Boismenu, AIS Coordinator, LWCD. Six volunteers attended the training and received AIS education and identification, zebra mussel monitoring handbook (procedures, protocols, and techniques), Zebra/Quagga Mussel (Quantitative) Report forms, and other outreach material. In addition, volunteers constructed and assembled their veliger substrate samplers to take home and deploy under their docks. Sandy provided the parts and hardware for the samplers. David and Stephanie provided drills, sanders, extension cords, and other tools and supplies.

May 19, 2018	AIS Identification and Zebra Mussel Monitoring Training	6 attendees
	Lake Group: Pelican Lake Property Owners Association	
	Location: Schoepke Town Hall	
	Instructors: <i>Stephanie Boismenu, AIS Coordinator, LWCD</i> <i>Sandy Wickman, Water Resource Management Specialists and</i> <i>CLMN Regional Coordinator, DNR/UWEX Lakes</i>	

Budget for 4E: \$60.00

Total Expenses: \$0.00

Photos and sign in sheets included in Appendix A and H.
Some mileage was incurred for the above projects (Tab 4A and appendix E).

4F: LWCD staff to assist DNR with point-intercept (PI) surveys, early detection monitoring on eligible lakes, including zebra mussel survey on Pelican Lake in 2018. Assist with report writing and data entry into SWIMS for a minimum of one lake. Quarters April-June, July-September. (\$0)

Field assistance from LWCD staff was available to the DNR for 2016 point-intercept (PI) surveys and GLRI (Great Lakes Restoration Initiative) Early Detection Monitoring project surveys. However, assistance from LWCD was not requested in 2017 nor 2018.

Budget for 4F: \$0.00 (No expenses were incurred for this project).

4G: Provide and maintain dissolved oxygen meter for CLMN volunteers and concentration monitoring projects. Yearly purchase and replacement of sensor cap. Quarters April-June, July-September. (\$125.00)

In 2018, the DNR provided maintenance and calibration to the LWCD's dissolved oxygen (DO) meter. The DNR replaced the sensor cap at that time; therefore the purchase of a sensor cap was not needed.

In 2018, the Oneida County AIS Team used the DO meter to conduct CLMN water quality studies on 24 lakes (see section 4A). In addition, the DO meter was loaned out 20 times to 7 CLMN volunteers who collected data on Julia, Squash, Tom Doyle, Alva, Stella, Maple, Swamp, and DL Lakes. Collected data was entered into SWIMS.

Total DO readings in 2018: 24

Budget for 4G: \$125.00

Total Expenses: \$0.00

CONCLUSION:

In 2018, the Oneida County Land and Water Department continued the fight against AIS. With help from the WDNR and AIS Control Grant AEPP 54418, LWCD hosted 14 workshops (154 participants), presented at 19 functions (1,151 participants), worked with over 1,320 school children at 22 events, and hired four limited-term employees who performed a 806 hours of CBCW inspection and monitored 24 lakes for AIS and water quality. The educational outreach did not end there. Oneida County LWCD was also able to distribute stickers, brochures, pens, koozies, lanyards, bobbers, and wristbands. The AIS Control Grant award also enabled Oneida County to continue to monitor, manage, and map AIS. By mapping and monitoring existing populations, we can move forward with management practices that will protect and/or preserve our invaluable water resources.

Without financial support from the WDNR grant program, Oneida County's AIS program would be severely limited, if not completely dismantled. The current AIS program has been successful on many fronts and has been a huge success in educating and controlling the spread of AIS. The program has raised public awareness on AIS, increased partnerships, and most importantly, has worked tirelessly in protecting Oneida County's water resources. In 2018, Oneida County can say with certainty, that it has collaborated with multiple organizations in effectively helping to prevent the spread of AIS!

APPENDICIES