

**Wisconsin DNR Office of Great Waters  
Scope of Work**

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***Project Title:***

Citizen Science Monitoring for Habitat & Populations BUI to support BUI removal in the Sheboygan River AOC

***AOC(s):***

Sheboygan River Area of Concern

***Project Applicant:***

Sarah Dezwarte, Director of Education  
Camp Y-Koda Outdoor Skills and Education (branch of the Sheboygan County YMCA)  
W3340 Sunset Road  
Sheboygan Falls, WI 53085  
920-467-6882  
sdezwarde@sheboygancountyyymca.org

***Project Manager:***

Sarah Dezwarte, Director of Education  
Camp Y-Koda Outdoor Skills and Education (branch of the Sheboygan County YMCA)  
920-467-6882  
sdezwarde@sheboygancountyyymca.org

AND

Eric Evensen, Sheboygan River AOC Coordinator  
Wisconsin Department of Natural Resources  
(920) 893-8527  
Eric.Evensen@wisconsin.gov

***Project Location:***

Sheboygan River Area of Concern

***Problem Statement:***

The Wisconsin Department of Natural Resources (WDNR) implemented all habitat restoration management actions within the Sheboygan River Area of Concern (AOC) in 2012. The focus has now turned to evaluation and monitoring to determine the status of Beneficial Use Impairments (BUIs) in the Sheboygan River AOC. This is a collaborative effort and evaluation and monitoring activities are being carried out by WDNR staff, contractors, municipalities, and citizens. Citizen-based monitoring is crucial to the success of the AOC, especially in the future after the AOC has been delisted. The citizen monitors will be the long-term stewards of the river's resources and all projects that have been implemented and it is crucial for this monitoring to continue moving forward. Funding is needed to accomplish many goals, including: sparking and maintaining the community's interest, building understanding of the AOC's ecosystems and support of the delisting

process, supporting the growth of the Sheboygan River ecological database, and promoting citizen-led stewardship.

Citizen-based monitoring began in 2013 and has been ongoing along the Sheboygan River AOC for the past 4 years. Citizen volunteers collected data on birds, bird boxes, bats, frogs and toads, and mussels. They also conducted invasive plant removal along the river corridor and hosted a river litter clean-up each spring. The data that citizens collect is consistent with the official monitoring surveys that WDNR staff and contractors collect. Citizen-based monitoring surveys can provide a stronger dataset that may be needed to support the removal of the “Degradation of Fish and Wildlife Populations” BUI. Citizen volunteers will also be informed of the progress on each of the nine BUIs associated with the Sheboygan River AOC through regular newsletters and public input periods. In order to keep citizen volunteers engaged with AOC projects and topics, continued funding is essential for persistent progress. This proposal targets to continue and expand the coordinated citizen-based monitoring and stewardship focus of community programming regarding the Sheboygan River AOC.

***Proposed Work:***

WDNR will use these funds to support citizen-based monitoring programs that are coordinated by Camp Y-Koda Outdoor Skills and Education. The citizen-based monitoring projects will focus on birds, bats, mussels, and frogs and toads. The projects will also follow survey protocols established through the WDNR Citizen-Based Monitoring Network and they will be described in the 2016 Sheboygan River AOC Citizen Monitoring QAPP document. Bird nest boxes were installed and monitoring and management of the bird boxes will continue under this program. Volunteer crews will be recruited and coordinated to work on invasive plant control in targeted locations along the AOC. A river litter clean-up day will also be held in spring to engage citizens of all ages to become familiar with the Sheboygan River ecosystem. In addition to data collected during the coordinated field outings, volunteers will be trained and encouraged to collect further data on their own as well, following CBM protocols.

***Collaboration with Partners:***

Just as in the past, this project continues to rely on collaboration between the WDNR, Camp Y-Koda Outdoor Skills and Education, and the Sheboygan River Basin Partnership. In addition, the project will seek to continue to build and strengthen collaboration and partnership with local citizens and local groups, including the Sheboygan County Chapter of the Audubon Society, Maywood Nature Center, and Sheboygan County’s Invasive Plant Control Program, among others.

***Timetable:***

Project duration: March 1, 2017 through December 31, 2017

- Start date: March 1, 2017 - May 2017: Volunteer recruiting and training. Planning and coordination for May Sheboygan River Cleanup.
- April 15 - September 30, 2017: Active monitoring.
- May 21, 2017: Master Naturalist Training
- August 15, 2017: Report data sheet to Wisconsin Frog and Toad Survey.
- September 15, 2017: Report to Bluebird Restoration Association of Wisconsin.
- Report bird sightings to eBird: Within one week of each birding session
- Submit Ana-Bat SD Card to Paul White of the DNR following each monitoring session

- September 30, 2017: Data submissions completed. Reports/invoices completed.
- December 31, 2017: Data analysis and volunteer surveys completed and submitted.
- Reports/invoices to AOC Coordinator June 30, September 30, and December 31.

***Deliverables:***

- Provide birding canoe/kayak trips with data submitted to Paul White, WDNR.
- Provide bird monitoring walks with data submitted to eBird.
- Monitor and maintain bird boxes per the Bluebird Restoration Association of Wisconsin Protocol with data submitted to BRAW.
- Provide bat monitoring canoe trips with data submitted to Paul White, WDNR.
- Provide frog and toad survey outings with data submitted to Andrew Badje, WDNR.
- Provide mussel monitoring canoe/kayak trips with data submitted to Lisie Kitchel, WDNR.
- Provide citizen invasive plant “ground army” field events to control invasive plants.
- Coordinate a Litter Clean-Up day along the AOC.
- Promote events through fliers and on the Camp Y-Koda website.
- Create and send reports and invoices to the AOC Coordinator.
- Provide 3 CBM WI Mussel Monitoring canoe/kayak trips with data submitted to Lisie Kitchel, WDNR. *(Camp Y-Koda lead and outfit)*
  - Goal # of Participants: 15 (5 per trip)
- Provide 3 Birding canoe/kayak trips with data submitted to eBird. *(Maywood lead, Y-Koda outfit)*
  - Goal # of Participants: 30 (10 per trip)
- Provide 3 CBM WI Bat Monitoring canoe trips with data submitted to Paul White, WDNR. *(Y-Koda lead, Y-Koda outfit)*
  - Goal # of Participants: 30 (10 per trip)
- Provide 10 CBM Bird Monitoring walks - June – September with data submitted to eBird. *(Maywood lead, Y-Koda outfit)*
  - Goal # of Participants: 50 (5 per walk)
- CBM Bird Box Monitoring and Maintenance via Bluebird Restoration Association of Wisconsin protocol, with data submitted to BRAW. *(Maywood lead)*
  - Goal # of Participants: 5 individuals
- Provide 3 CBM WI Frog and Toad Survey outings with data submitted to Andrew Badje, WDNR *(Maywood lead)*
  - Goal # of participants: 10 per survey
- Provide 13 Citizen Invasive Plant “Ground Army” field events, with end-of-season results field tour for local AOC staff. *(Y-Koda lead)*
  - Goal # of participants: 65 (5 per event)
- At least 120 individuals from businesses, community and other groups will participate in the annual Sheboygan River Cleanup in May of 2017. *(Y-Koda lead and outfit)*
- Information announced via a website, Facebook, the YMCA program brochure, and registration forms that are sent to school-aged students. *(Y-Koda)*
- Outreach at a Wisconsin Master Naturalist volunteer workshop for presenting and promoting citizen-based monitoring programs (opportunities for Master Naturalists to get in their 40 hours/year required volunteer service Training performed. *(Maywood)*

- Reports/invoices to AOC Coordinator June 30, September 30, and December 31.

The final report will include all maps of survey locations including GIS coordinates, photographs from each survey, copies of information pieces, results of the season's monitoring, numbers of participants for each monitoring area, a calendar of the dates of actual monitoring sessions, numbers of nest boxes monitored, net gains (i.e. number of volunteers, locations, nest boxes, monitoring sessions, etc.) compared to 2016, and related outcomes as a part of citizen based monitoring. Electronic copies of data in a format compatible for WDNR for Citizen Based Monitoring and other data collected.

***Project Budget:***

	<b>March 1, 2017- December 31, 2017</b>
Personnel/Salaries	\$7,010.13
Outfitting Expenses	\$2,600.00
Supplies	\$300.00
Contractual:	
Maywood Environmental Park	\$1,588.10
Other Costs	
<b>Total Direct Charges</b>	<b>\$11,498.23</b>
Indirect Charges (15%)	-----
<b>Total Cost</b>	<b>\$11,498.23</b>

\* Outfitting expenses include a maximum of 30 - 3 seat canoes, life vests, paddles, two canoe trailers, two vehicles (gas and mileage) for transporting participants, and two way radios for safety.

***Budget Detail:***

All expenses are for contracted services to coordinate, inform, and equip volunteers to conduct monitoring as described in the "Proposed Work" section.

Expenses are **\$11,498.23** for Camp Y-Koda to implement programs and community engagement with its own staff or via contract with Maywood Environmental Park:

- **\$1,588.10** to Maywood for leading and coordinating programs.
  - CBM Bird Walks (June- September) **\$450.00**
    - \$450.00 instructor fee for 6 outings 3 hours each (\$25/hr x 3 hrs x 6 outings)
  - CBM Bird Canoe Trips leader **\$562.50**
    - \$562.50 instructor fee for 5 trips (\$25/hr x 4.5 hrs x 5 trips)
  - CBM WI Frog and Toad Survey **\$575.60**

- \$200.00 in salaried hours for planning/development for 4 sessions (includes training volunteers on route and data collection) (\$25/hr x 2 hrs x 4 sessions)
  - \$300.00 instructor fee for 4 sessions (\$25/hr x 3 hrs x 4 sessions)
  - \$75.60 for mileage (\$0.54/mile x 35 miles per session x 4 sessions)
- **\$9,910.13** to Camp Y-Koda for leading and coordinating programs and outfitting canoe-based programs. Outfitting includes a maximum of 30 - 3 seat canoes, life vests, paddles, two canoe trailers, two vehicles (gas and mileage) for transporting participants, and two way radios for safety. Prior to outfitting programs staff are trained on program specifics/updates, and water stretches are scouted for water levels and obstacles.
    - **Program Leader \$1,350.00**
      - \$100.00 in salaried time for Quarterly Reports to WDNR (\$25/hr x 2 hrs x 2 Quarterly Reports)
      - \$100.00 in salaried time for Final Report (\$25/hr x 4 hrs x 1 Final Report)
      - \$50.00 for Sheboygan River Basin Partnership (SRBP) meeting reports and newsletter updates to Lakeshore Natural Resources Partnership (LNRP) (\$25/hr x 2 hrs)
      - \$250.00 salaried time for coordination with Maywood (includes coordinating field outings, marketing events, gathering quarterly and final report data, and invoice coordination) (\$25/hr x 10 hrs)
      - \$500.00 Planning, marketing, registration (\$25/hr x 20 hrs)
      - \$100.00 for salaried time to conduct program assessment through a post monitor survey (survey monkey to gauge success of programs) (\$25/hr x 4 hrs)
      - **\$250.00 for coordination with WDNR to analyze and interpret data from all citizen-based monitoring, including either a brochure, newsletter, or online PowerPoint to communicate findings and trends over time (\$25/hr x 10 hrs)**
    - **CBM Bat Survey Canoe Trips \$1,023.00**
      - \$300.00 instructor fee for 3 trips (\$25/hr x 4 hrs x 3 trips)
      - \$123.00 lifeguard fee for 3 trips (\$10.25/hr x 4 hrs x 3 trips)
      - \$600.00 for outfitting expenses (\$200/trip x 3 trips)
    - **Mussel Monitoring Canoe Trips \$1,123.00**
      - \$300.00 instructor fee for 3 trips (\$25/hr x 4 hrs x 3 trips)
      - \$123.00 lifeguard fee for 3 trips (\$10.25/hr x 4 hrs x 3 trips)
      - \$100.00 for supplies (5 water proof clip boards x \$9.00 to record data and 5 laundry bags x \$11.00 to sort mussel shells)
      - \$600.00 for outfitting expenses (\$200/trip x 3 trips)
    - **Bird Monitoring Canoe Trips \$1,793.13**
      - \$562.50 instructor fee for 5 trips (\$25/hr x 4.5 hrs x 5 trips)
      - \$230.63 lifeguard fee for 5 trips (\$10.25/hr x 4.5 hrs x 5 trips)
      - \$1000.00 for outfitting expenses (\$200/trip x 5 trips)
    - **Citizen Invasive Plant "Ground Army" Coordination \$1,150.00**
      - \$1000.00 leader fee for 10 events (\$25/hr x 4 hrs x 10 events)
      - \$150.00 supplies (garbage bags and trowels)
    - **Annual Sheboygan River Litter Clean-up \$3,471.00**
      - \$2,125.00 in salaried staff hours, development, organization, registration, coordination of volunteers and staff (\$25/hr x 85 hrs)

- \$250.00 in marketing to include printing, press releases, email blasts, Facebook and flyer distribution
- \$400.00 in day of the event staff hours (\$25/hr x 8 hrs x 2 staff)
- \$246.00 for part-time staff day of the event (\$10.25/hr x 8 hrs x 3 staff)
- \$400.00 for canoes, kayaks, life vests, paddles, trailers, and 3 vehicles for transportation and equipment hauling the day of the event
- \$50.00 in supplies the day of the event (poster board, garbage bags)