

Tomahawk Lake 2017 AIS Monitoring, Mapping & Planning Grant

1st Quarterly Report, April 1 through June 30, 2017

Grant number AEPP 51317

The following report outlines the grant activities which took place in the 1st grant quarter of 2017:

Edward Greedy, acting as the Aquatic Invasive Species (AIS) Coordinator performed the following duties outlined in this grant. The narrative pertains to the 1st grant quarter only, but in most cases continued throughout the summer period.

Hydraulic Conveyor System (HCS)

1. In late April, the AIS Coordinator began recruiting for the summer diving staff for the Hydraulic Conveyor System. One new diver and one returning diver was hired and their contracts settled. The AIS Coordinator, working with the TLA bookkeeper installed the new AIS payroll program for use throughout the 2017 harvesting season.
2. On May 16, the Tomahawk Lake Hydraulic Conveyor System (HCS) was brought out of winter storage and was birthed at the Greedy residence on the West End of Tomahawk Lake. From that date until harvesting startup (May 30th) the Hydraulic Conveyor received startup maintenance which included but was not limited to:
 - a. routine maintenance of craft including painting of three-tier separator.
 - b. Rebuilding of the Hookah air supply system pump.
 - c. Routine maintenance on pump motors (air, water, and main)
 - d. purchase and put into service a number of worn parts most notably the positive air supply full face diving mask and regulator.

On May 30, the HCS diving staff began work with a three-day period of diver training. Divers were trained on the daily operation of the HCS as well as introduced to the administrative requirements of the grant i.e. bi-catch data collection, daily log completion, and harvested plant material disposal requirements. Following the 3-day training. The HCS was put into full harvesting operations.

Clean Boats Clean Waters (CBCW)

On week beginning April 24 the AIS Coordinator recruited and hired two Clean Boats Clean Waters ramp attendants for the 2017 season. These individuals were to man the town of Lake Tomahawk, and the Indian Mounds State Park boat ramps each week, from Friday at noon through Sunday late afternoon. The 2 individuals that were hired had been employed in these positions for several years prior to the 2017 season.

The AIS Coordinator working with the Tomahawk Lake Association bookkeeper placed these individuals into the summer season payroll program. The start date for these individuals was Friday, May 26, and continued throughout the 1st quarter (and throughout the remainder of the summer season).

The expense for these 2 individuals was not included in a Clean Boats Clean Waters grant for the 2017 season, as an error was made in the electronic transmission of the grant application going into the state of Wisconsin. The error was not discovered until after the grant application deadline of December 10.

Sentinels Volunteer Monitoring Program

On week beginning May 15, the AIS Coordinator began the development of the 2017 new Sentinels Volunteer Monitoring Program Operations Manual, which is provided to all 16 of the 2 - 3 man Sentinels volunteer monitoring teams prior to the Sentinel surveys being performed in late June and early July, and again in mid-August.

This comprehensive training manual includes an overall explanation of the Sentinels Volunteer Monitoring Program, and provides training on the methods used to find and identify aquatic invasive species (primarily EWM), as well as the use of electronic data collectors to record these sites, and the administrative routine of retrieving and delivering the recorded data to TLA's mapping consultant.

Each training manual contains specific maps of lakes sectors for each monitoring team. The manuals are hand-delivered to the key team captains by the AIS coordinator. The Sentinel surveys (2) begin on the last week of June and are completed during the 1st 2 weeks of August. Final sector data sets are delivered to the mapper during the 3rd week of August in the season ending monitoring map is completed and distributed by Labor Day.

2017 Spring "Confirming" Point Intercept AIS Survey.

Beginning in week beginning May 15 the AIS Coordinator began and worked through completion of the spring confirming point intercept AIS survey. The purpose of the survey is to confirm the location and size/shape of the pre-season AIS aquatic plant survey performed the previous fall (September). Each of the polygons mapped in the fall survey, along with the point intercept sites within those polygons which were established in the previous fall's survey are visited to confirm the existence and any changes within these polygons.

In the spring of 2017 the AIS Coordinator visited all 14.85 acres within 38 polygons and the point intercept locations within those polygons. After the survey was taken the AIS Coordinator recommended no changes to the original fall pretreatment survey recommendation outlined in the 2016 Aquatic Plant Management Report.

In performing this survey, the AIS Coordinator adhered to the protocols developed in the UW-EX Lakes Aquatic Plant Management Guide.

Citizens Lake Monitoring Network

In week beginning April 10, the AIS Coordinator contacted Tomahawk Lake's Citizens Lake Monitoring Network volunteers to review their protocols and to ascertain their willingness to continue with this important

work. The CLMN team leader, Steve Cote agreed that the team would continue for an additional year, and assured the AIS Coordinator that initial data collection had already begun.

Monthly Reports of AIS Activities

the AIS Coordinator provides a progress letter to the entire TLA Board of Directors each month which outlines all of his activities concerning aquatic invasive species. This letter is a requirement of the board, and is included as a duty of the AIS Coordinator in the monitoring mapping and planning grant. These monthly reports were given at the monthly board meetings of the Tomahawk Lake Association Board of Directors as well as distributed in email form to all of the individual directors prior to these meetings.

Edward Greedy
Executive Director
The Tomahawk Lake Association, Inc.