

Squash Lake
Oneida County, Wisconsin

ADDENDUM 2
AIS Control & Prevention Project Results
Report on Grant Extension
August 16, 2017

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Funded by: Squash Lake Association
Wisconsin Department of Natural Resources
(Surface Water Grant ACEI-156-14)

PREFACE

Onterra, LLC issued its final report on Surface Water Grant ACEI-156-14 in January, 2017. Subsequently, the Squash Lake Association issued an addendum to that report in June, 2017 to report on the implemented update to its Lake Management Plan goals and objectives that resulted from Onterra's final report. This 2nd Addendum is submitted to report on the activities and deliverables completed under the extension the DNR granted to the Squash Lake Association for ACEI-156-14. DNR grant ACEI-156-14 original end-date of June 30, 2017 was extended to a new end-date of December 31, 2017. The reason for the extension was a \$9577.33 grant balance remaining unpaid.

CONCLUSIONS

- The Squash Lake Association exhausted the balance remaining on ACEI-156-14 as of the beginning of August, 2017 and submitted the final grant reimbursement on August 16, 2017.
 - 7/20/2017 – cut-off date for diver harvesting, diver pay, covered under ACEI-156-14. All diver harvesting after this date will be under ACEI-192-17,
 - 8/2/2017 – cut-off date for all other expenses related to diver harvesting, ie air tank refills. All expenses for supplies after this date will be under ACEI-192-17.
- Early Season AIS Survey conducted by Onterra LLC indicated presence of EWM, but at lower occurrence than in prior years.
- Early Season AIS Survey map generated by Onterra LLC was used to create priority areas for the association divers.
- Observations by the divers and milfoil monitors confirms suppressed occurrence of EWM in the littoral zone of Squash Lake.
- The Squash Lake Association AIS Control program of diver hand harvesting continues to demonstrate effective control of EWM as a transition to grants AEPP-510-17 and ACEI-192-17.
- The Squash Lake Association has met the objectives under DNR grant ACEI-156-14

RECOMMENDATIONS

- The Squash Lake Association, and subsequently the Squash Lake Protection and Rehabilitation District, will continue to follow:
 - The Lake Management Plan (2014),
 - DNR strategies for AIS control of EWM for lakes with an LFOO below 10%
 - The objectives defined in AEPP-510-17 and ACEI-192-17, which are a continuation of the work done under ACEI-156-14

RESULTS ON DELIVERABLES

1. Early Season AIS Survey

The Early Season AIS Survey was completed by Onterra LLC in June, 2017. The occurrence of EWM was mapped by Onterra for use by the Squash Lake Association to prioritize diver hand harvesting. The 2017 Early Season AIS Survey Map is included as Attachment 1.

As shown in Attachment 1, the areas of priority were fewer and smaller than in June 2016. There were no areas of high priority identified as in years past.

2. Diver Assisted Suction Harvesting (DASH)

Onterra LLC indicated that there were no areas of EWM colonies large enough to warrant the use of DASH. The Squash Lake Association had scheduled Many Waters earlier in the spring of 2017, to conduct DASH, anticipating there would be DASH areas. The scheduled DASH activity and mechanical harvesting permit application were cancelled. It should be noted that this is the first time in four (4) years that DASH was not used.

3. Diver Hand Harvesting

Due to the 0.00% LFOO for EWM reported on the 2016 Point Intercept Survey performed by Onterra LLC, and the lower occurrence of EWM from the Early Season AIS Survey, lower total weight of EWM was collected vs anticipated based on prior years. Additionally, fewer diver hours were needed to maintain control of EWM.

- a. Diving dates reported for grant extension: June 8 thru July 20, 2017
- b. Number of diving days: 20
- c. Total diving hours: 317
- d. Total wet weight of EWM collected: 716 lbs

4. Milfoil Monitoring

A total of 38.5 hours of EWM monitoring was performed by volunteers. Approximately 6 new EWM plant locations were marked, identified, and removed by divers. Some plants were removed by volunteers. Most locations identified were in previously existing areas.

Note: An EWM Blitz was performed under AEPP-510-17 on August 12th. The entire 7.1 miles of littoral zone was inspected. Only 5 new plant locations were identified and marked. Areas of previously existing colonies showed some EWM re-emerging, but not reaching the surface. Two areas of existing colonies needed diver attention to revisit and remove EWM.

