



## **Lone Stone Lake EWM Removal Report 2016**

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# Lone Stone Lake EWM Removal Summary 2016

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**Summary:** On July 18th, 19th, and 20th, Aquatic Plant Management LLC (APM) Conducted hand removal services of Eurasian Watermilfoil (EWM) on Lone Stone Lake in Oneida County, WI. Our divers spent a combined total of 58.5 hours on the water and were able to successfully remove 97.5 cubic feet of EWM from the lake. As per Onterra LLC's request, we worked our way around the lake, targeting small plant colonies and clumps of plants first, before moving on the single or few plants remaining within the EWM control area. After spending the majority of the day on July 18th targeting the high priority sites, we then spent the remaining time on the lake mainly focusing on site C-16, as this site had the highest number and concentration of single EWM occurrences. It should be noted that site C-16 had a very high number of plants in the 1-3" height range compared to any other site on the lake.

**Dive Conditions:** Conditions on July 18th were ideal for hand-harvesting, with clear skies, an air temperature of 70 degrees, and water temperature of 74 degrees. Conditions on July 19th consisted of clear skies in the morning, giving way to scattered clouds in the afternoon. We recorded an air temperature of 75 degrees, and water temperature of 74 degrees. Conditions on July 20th consisted of partly cloudy skies, an air temperature of 85 degrees, and water temperature of 75 degrees. Sechhi disk readings on all days indicated water visibility of roughly 15 feet.

**Recommendations:** While we were able to remove all visible EWM we encountered from the sites we visited, the native aquatic vegetation within some of the EWM control areas may be obscuring smaller EWM plants, especially around site C-16. Due to this fact, continued monitoring and management efforts are vital to preventing proliferation of EWM throughout Lone Stone Lake.

# Detailed Diving Activities

Date	Dive Location	Latitude	Longitude	Time Underwater	Avg Plant Height	Avg Water Depth	# Plants Removed	EWM Density Rating	Cubic Feet Removed	Substrate Type	EWM Condition	Native Growth
7/18/16	A-16	45.86593	89.07595	0:50	3.5	6	N/A	4	18	Organic	Healthy	Abundant
7/18/16	A-16	45.86593	89.07595	0:15	3.5	6	N/A	3	1	Organic	Healthy	Abundant
7/18/16	C-16	45.86444	89.07638	0:50	3	4.5	N/A	2	10	Sandy	Healthy	Abundant
7/18/16	G-16	45.86359	89.08836	0:40	2.5	4	N/A	8	6	Organic	Healthy	Abundant
7/18/16	D-16	45.86341	89.07985	0:30	3.5	5	N/A	4	4	Sandy	Healthy	Abundant
7/18/16	E-16	45.86818	89.07844	0:35	3.5	5	N/A	3	3	Sandy	Healthy	Abundant
7/18/16	A-16	45.86583	89.07539	0:40	3.5	5	N/A	2	4	Sandy	Healthy	Abundant
7/18/16	B-16	45.86505	89.07711	0:20	4	5	N/A	3	4	Sandy	Healthy	Abundant

<b>EWM Density Rating</b>	0	1	2	3	4	5	6	7	8	9	10
<b>Plants per 5 Square Yards</b>	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20

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Date	Dive Location	Latitude	Longitude	Time Underwater	Avg Plant Height	Avg Water Depth	# Plants Removed	EWM Density Rating	Cubic Feet Removed	Substrate Type	EWM Condition	Native Growth
7/19/16	C-16	45.86421	89.07717	1:05	3	5	N/A	2	20	Sandy	Healthy	Abundant
7/19/16	C-16	45.86432	89.07813	1:00	3	4	N/A	1	5	Sandy	Healthy	Abundant
7/19/16	C-16	45.86481	89.07569	0:55	3	4	N/A	1	2	Sandy	Healthy	Abundant
7/19/16	A-16	45.86629	89.07545	0:55	2.5	5	N/A	1	2	Sandy	Healthy	Abundant
7/19/16	Single	45.86867	89.08665	0:55	3	4.5	2	1	0.5	Sandy	Healthy	Abundant
7/20/16	C-16	45.8644	89.07694	1:00	1.5	4	N/A	0.5	3	Sandy	Healthy	Abundant
7/20/16	C-16	45.8644	89.07694	1:35	1.5	4	N/A	0.5	1	Sandy	Healthy	Abundant
7/20/16	C-16	45.86423	89.07639	0:50	2.5	5	N/A	0.5	4	Sandy	Healthy	Abundant

<b>EWM Density Rating</b>	0	1	2	3	4	5	6	7	8	9	10
<b>Plants per 5 Square Yards</b>	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20



# EWM Pictures





# EWM Pictures





# EWM Pictures



# Map Created by Onterra LLC

