

2018 NYSFOLA

ProcellaCOR: A New Tool for Aquatic Plant Management

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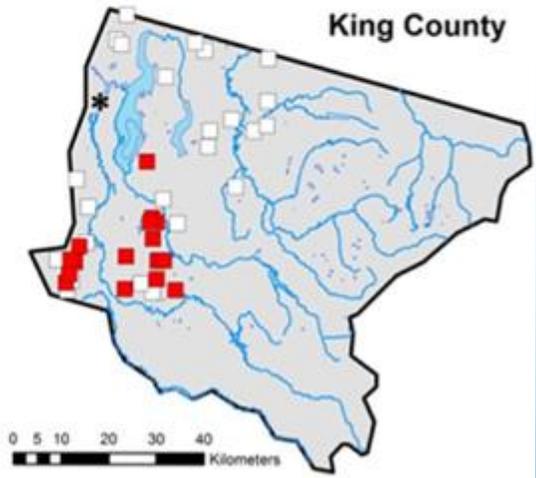
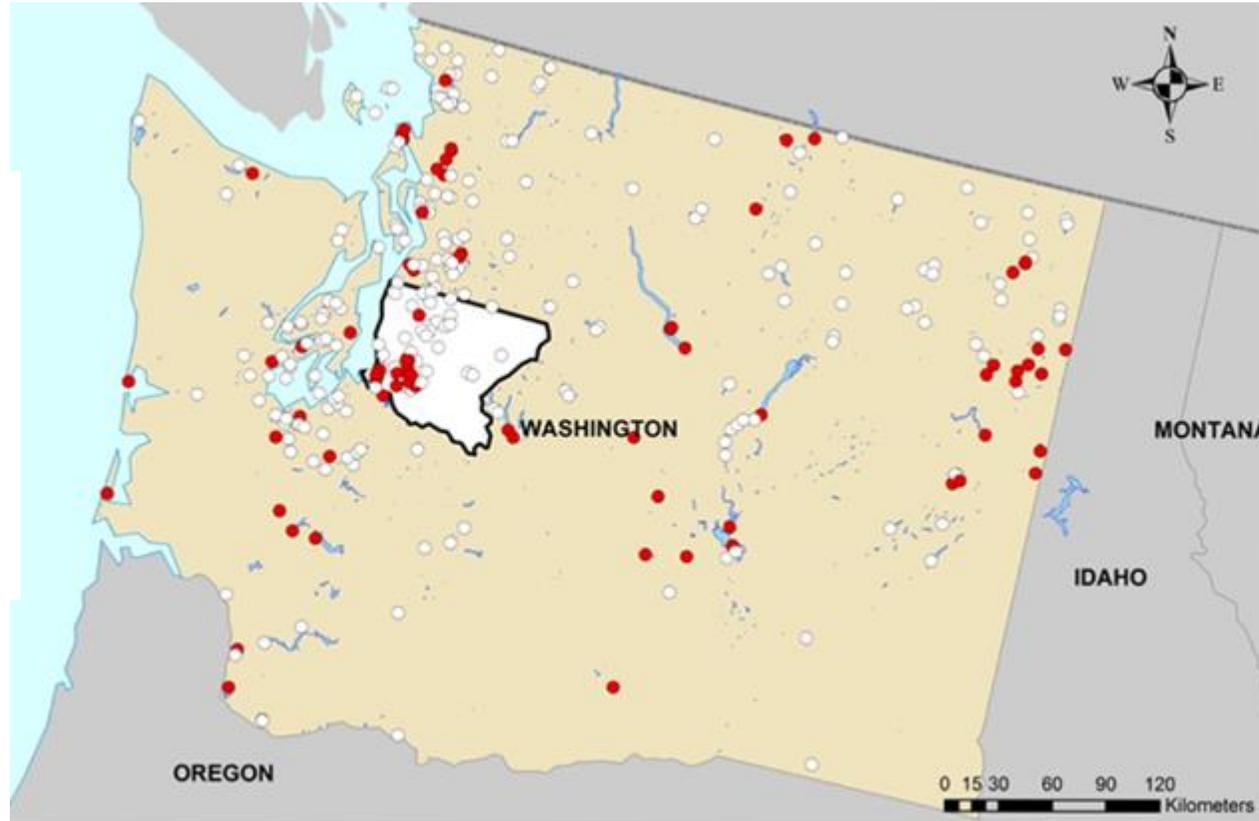
May 5, 2018



Olden and Tamayo 2014 (UW)

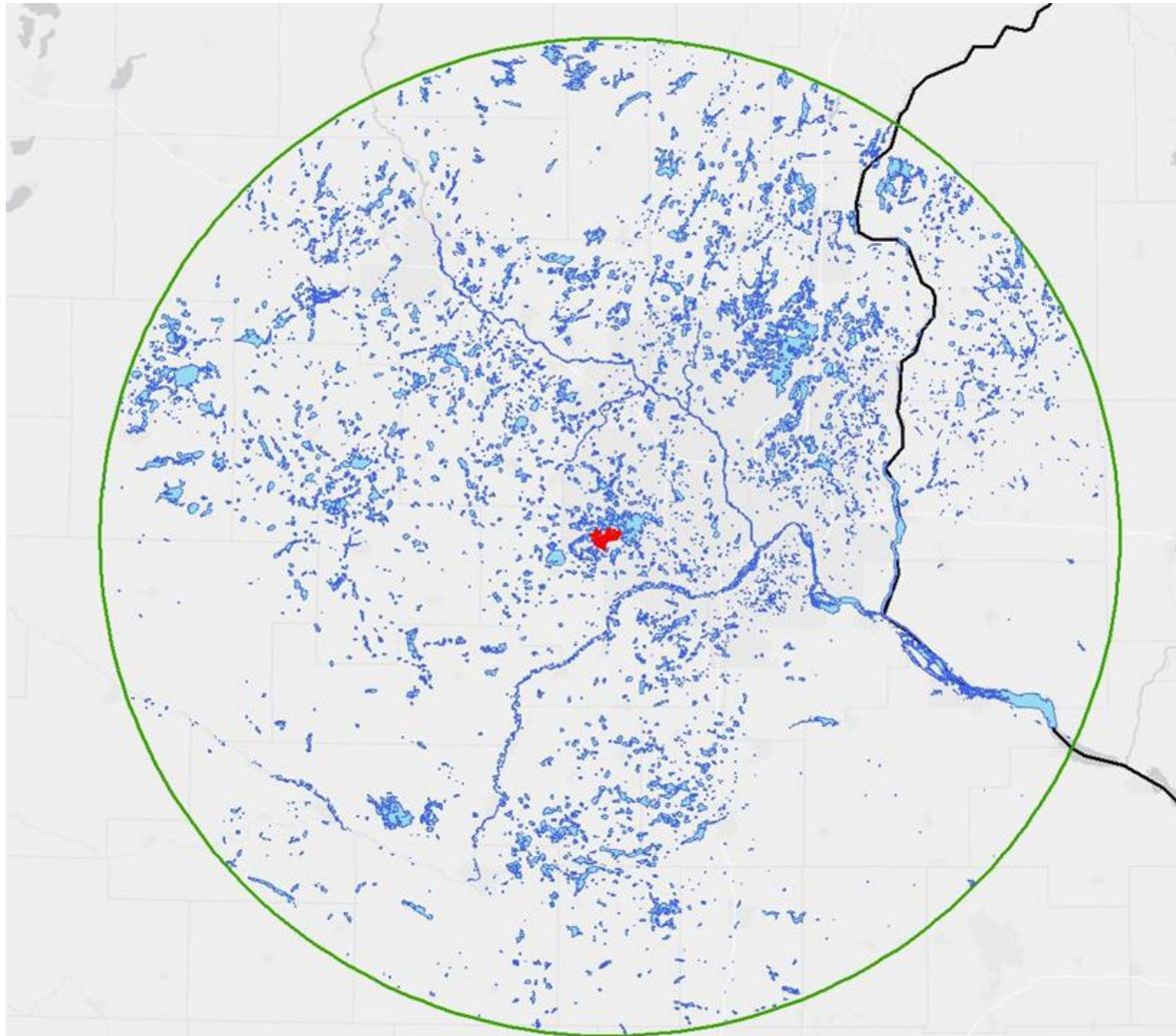
*Incentivizing the Public to Support Invasive Species Management:
Eurasian Milfoil Reduces Lakefront Property Values*

**19% Mean
Reduction
in
Property Value**

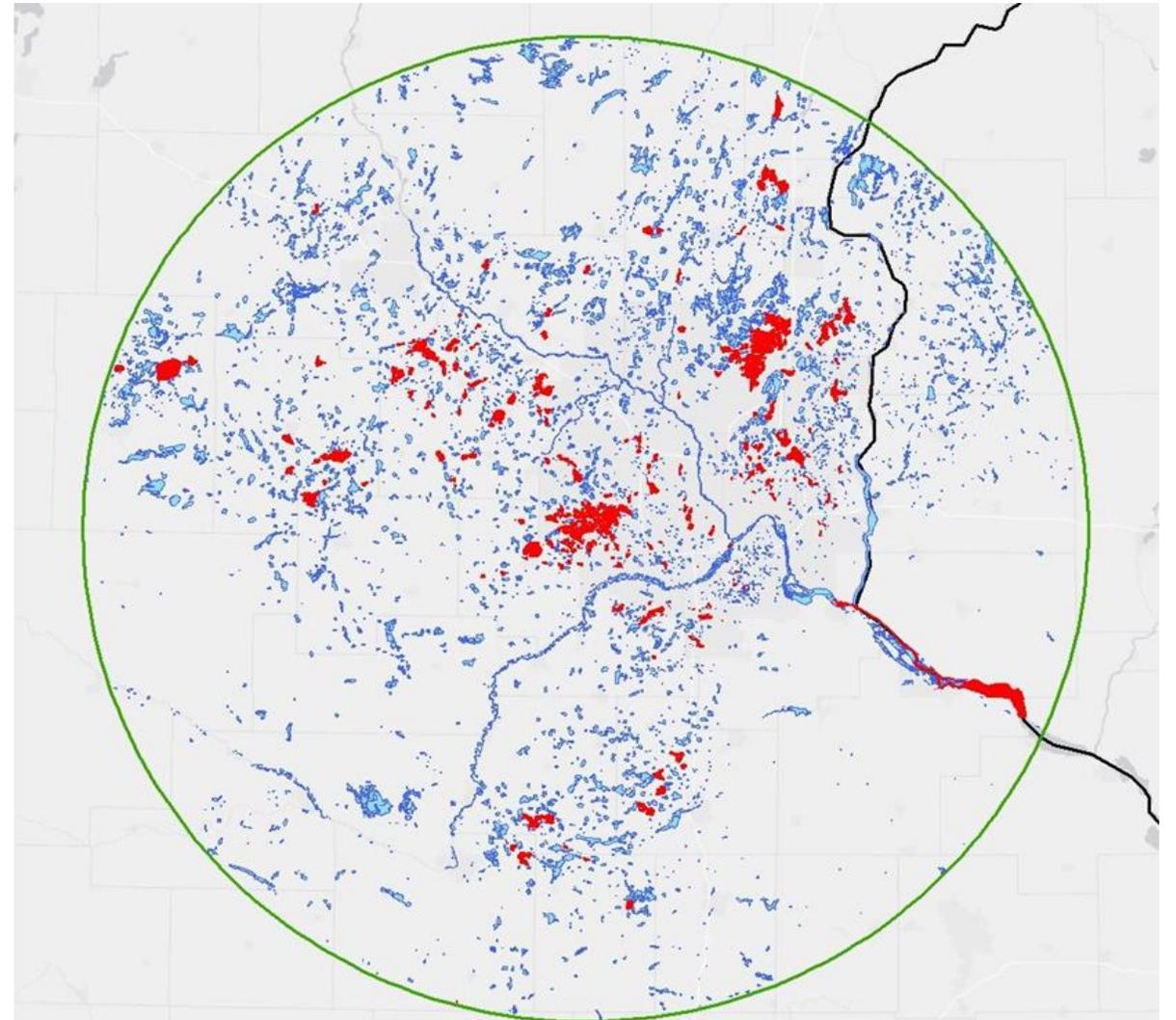


Expansion of Milfoil in MN

1987 75-mile radius – 6,042 lakes



2014 296 lakes infested



Rewriting the Story for New York

- A New Solution
- Reverse the impacts of invasive milfoils
- Restore your lakes

3 Season's Milfoil Control

Extended Control Promise

ProcellaCOR™
Aquatic Herbicide

Management Options

- Physical
- Mechanical Harvesting
- Chemical
 - Short term control
Endothall, Diquat
 - A season or more
Triclopyr, Fluridone





Management Challenges

- Limited scale, costly
- Non-selective (inverts, fish, native plants)
- Repeated treatments
- Typical High Use rates
 - More active ingredient
 - Larger volumes of product

A New Solution without Old Challenges

- New chemistry --- *invasive plant seeking technology*
- Systemic control, with native plant selectivity
- Rapid uptake and fast-acting
 - gets in weeds, acts fast and gone from water
 - ideal for spot and partial lake control

New Class of Herbicide

- Great tool for resistance management
- More herbicide gets into plant
 - *Dr. Richard Napier, University of Warwick*
- Shorter exposure time requirements
 - *Dr. Mike Netherland, JAPM 2018*

Safer Chemistry

- Reduced Risk Classification
- Short half life in water (hours to days)
- No potable or recreation water use restrictions
- Extremely low use rates/volumes
 - Up to 400X lower than several older chemistries



June 5, 2015 - EWM at time of treatment in central Indiana pond



June 19, 2015 - 14 DAT

ProcellaCOR™



7 DAT



EWM

Naiad

Illinois Pondweed

ProcellaCOR™
Aquatic Herbicide

Selective control

Lack of impact to
pondweeds and
naiad

14 DAT



EWM (Dead)

Naiad

Illinois
Pondweed

Sago
Pondweed

Extended Control

Pond continues to
have no EWM as of
spring 2018.

Day of Treatment: June 13, 2017

A photograph of a pond or lake surrounded by dense green trees and vegetation. The water is covered with lily pads and reeds, and the sky is overcast. The text "Day of Treatment: June 13, 2017" is overlaid in white on the left side of the image.

Milfoil control – 1 MAT – July 14, 2017

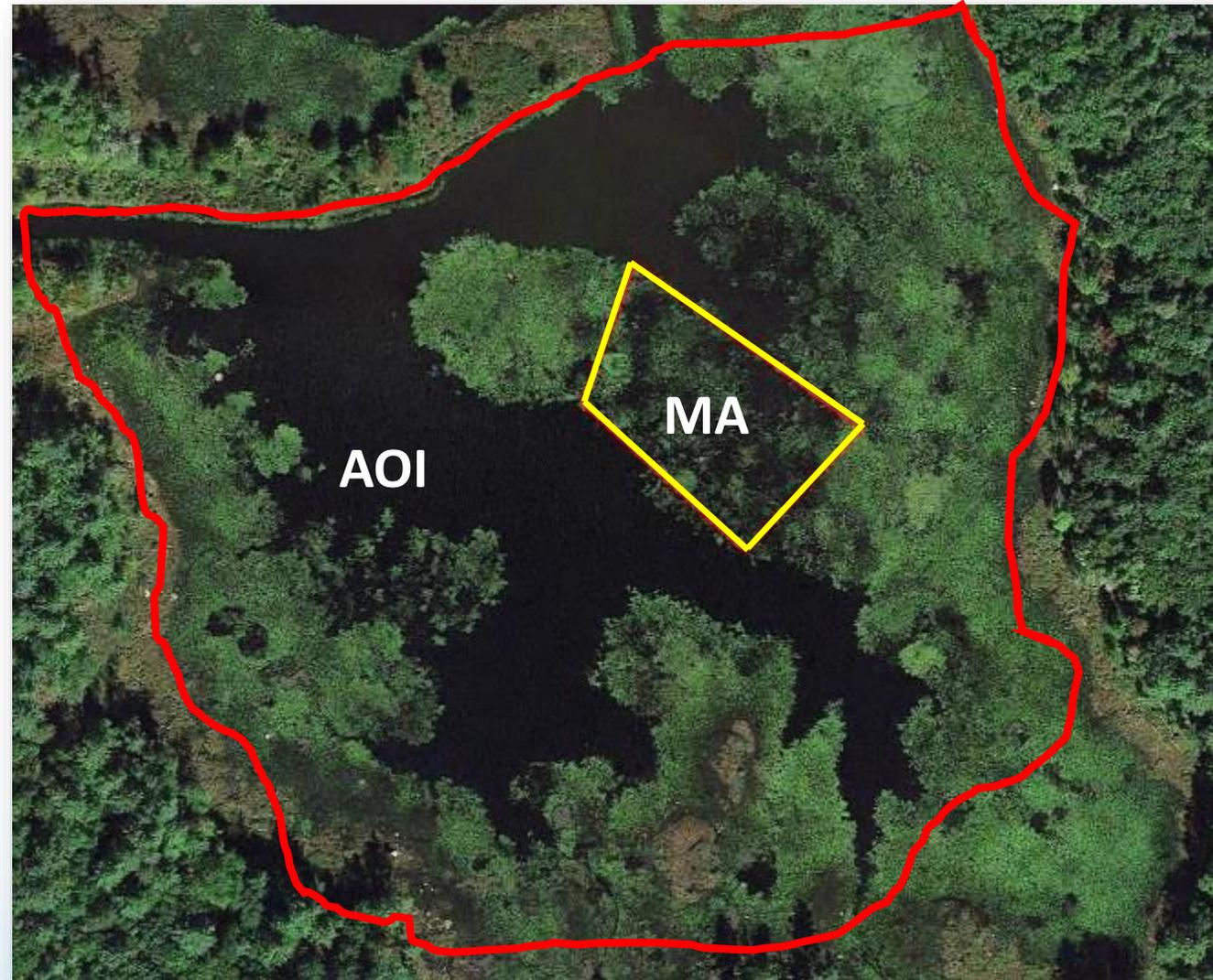
A photograph of a pond surrounded by dense green trees and bushes. In the foreground, there are several tall, green plants with pink flowers. The pond's surface is covered with a layer of milfoil, and several small, brown, rectangular floats (MAT) are visible, used for controlling the weed growth. The water reflects the surrounding greenery and the sky.

Results: Milfoil controlled, natives expanded

		EWM	Elodea	Sago	Illinois PW	CLP	Coontail	Cattail	Naiad	Variable PW	Floating Leaf PW
10/5/2016	%FOO	100.0	22.2	11.1	11.1	0.0	11.1	11.1	0.0	11.1	11.1
	Avg Density (1-4)	4.0	1.5	1.0	1.0	-	1.0	3.0	-	1.0	1.0
6/5/2017	%FOO	100.0	50.0	50.0	12.5	12.5	12.5	12.5	-	-	-
	Avg Density (1-4)	2.9	1.0	2.3	3.0	1.0	1.0	3.0	-	-	-
TREATMENT JUNE 13											
6/29/2017	%FOO	50.0	50.0	75.0	25.0	25.0	37.5	12.5	25.0	-	-
	Avg Density (1-4)	0.5	1.3	1.5	2.5	1.0	2.0	3.0	2.0	-	-
7/14/2017	%FOO	25.0	37.5	62.5	12.5	-	87.5	12.5	25.0	-	-
	Avg Density (1-4)	0.5	2.0	2.0	4.0	-	1.3	3	2.5	-	-

Variable Watermilfoil - New Hampshire 2016

- New Hampshire DES and US Army Corps of Engineers
- Management Area 1-acre
- Treated August 8, 2016



Dense topped-out VWM in July 2016



Variable Watermilfoil New Hampshire 2016

Pre-Treatment

Milfoil 7/14/2016

3 weeks post treatment

Milfoil 8/30/2016

Legend Milfoil

● 0-1

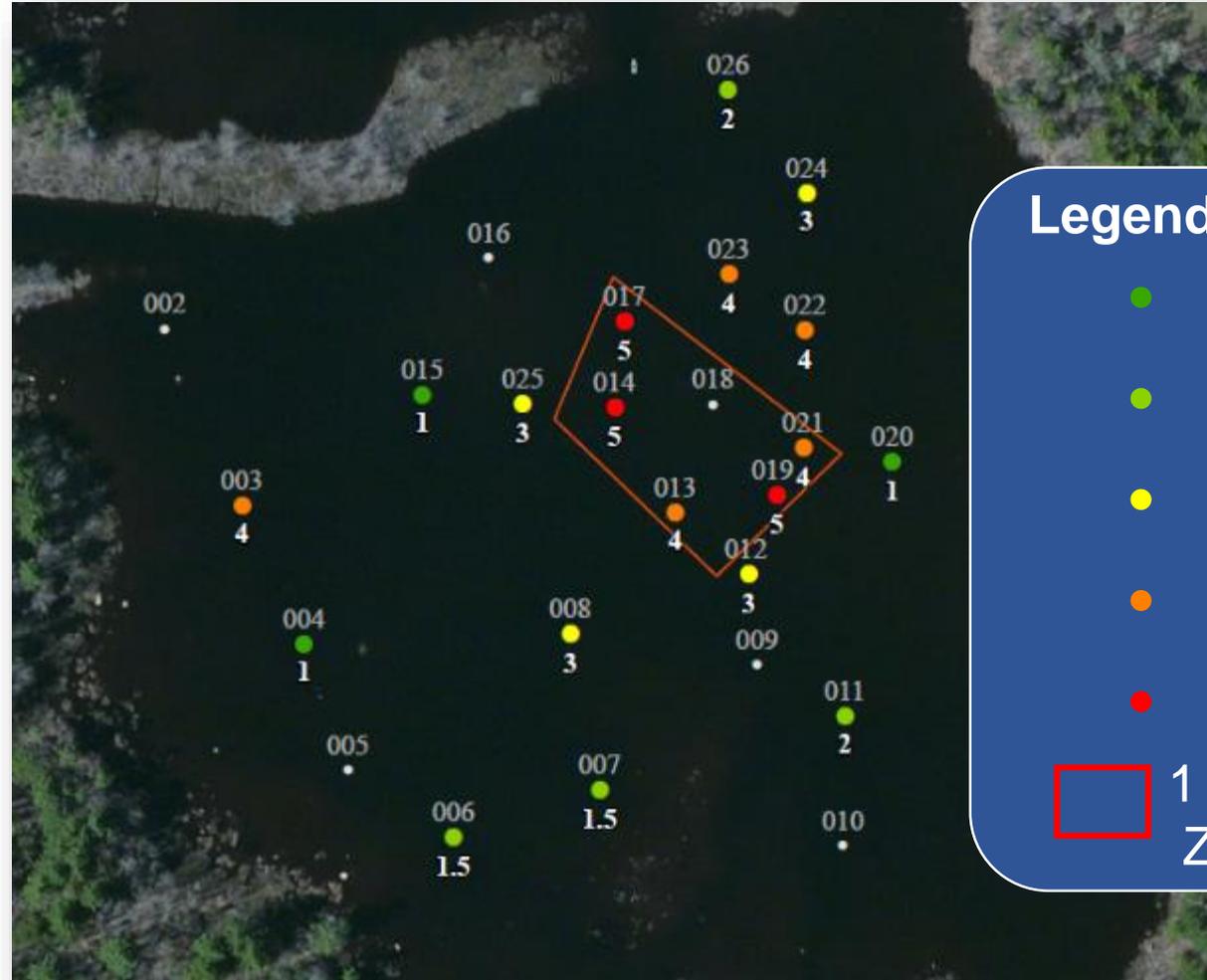
● 1-2

● 2-3

● 3-4

● 4-5

□ 1 Acre Zone



Variable Watermilfoil New Hampshire 2016



**Heavily injured VWM fragment
@ 3 weeks post in Management Area**



VWM 20 yards outside Management Area

ProcellaCOR concentrations < non detectable within 24 hours

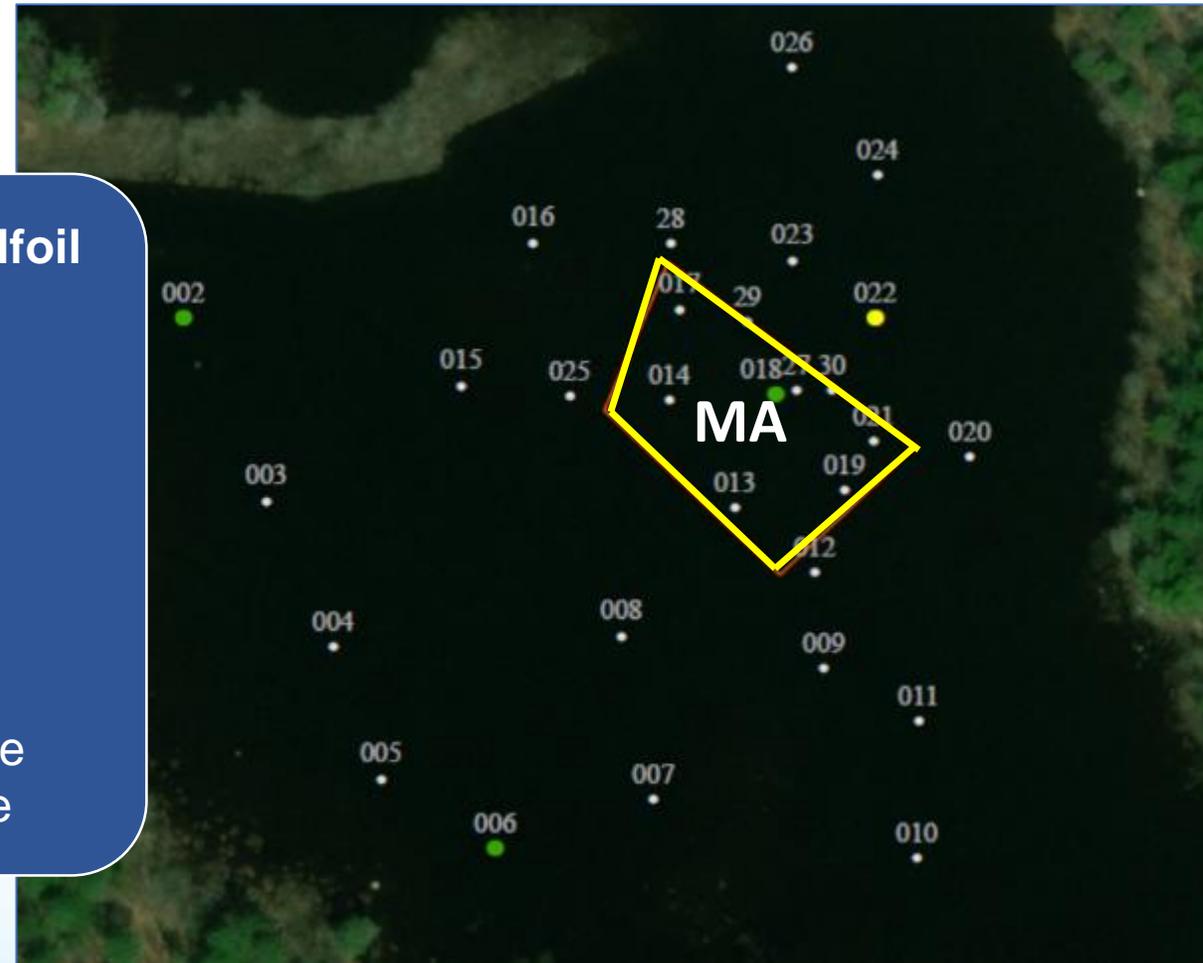
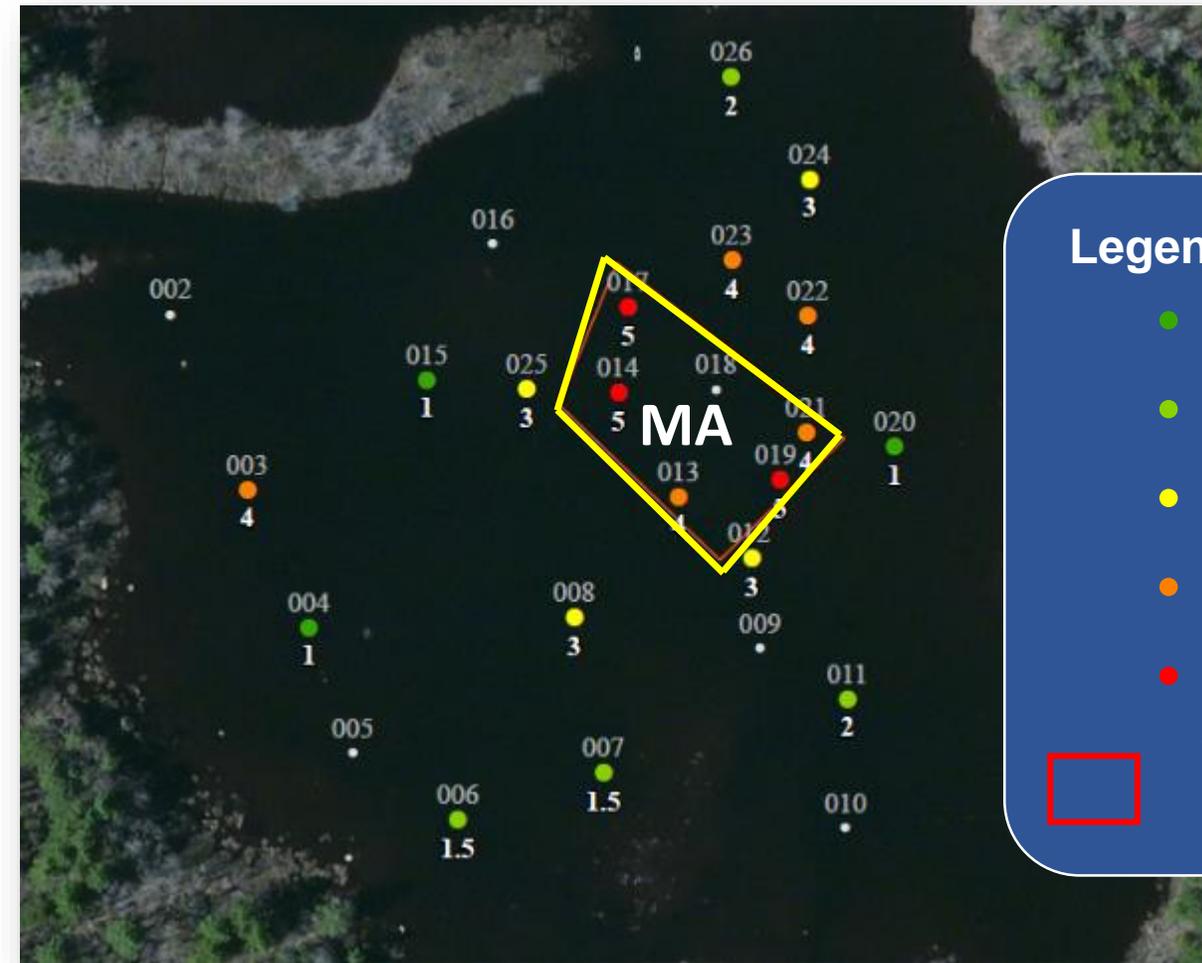
Selective VWM control @ 6 weeks post treatment



Variable Watermilfoil New Hampshire 2016

Milfoil 7/14/2016
Pre-Treatment

Milfoil 1 YAT
1 year post treatment



Legend Milfoil

- 0-1
- 1-2
- 2-3
- 3-4
- 4-5
- 1 Acre Zone

3 Season's Milfoil Control

Extended Control Promise

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ProcellaCOR and the
Extended Control Promise
available exclusively from
**ProcellaCOR PRO Certified
Specialists**

ProcellaCOR[™]
Aquatic Herbicide



Rewriting the Story for New York

- ProcellaCOR provides new solution*
- Eliminate invasive milfoils
- Restore your lakes

** Pending NYDEC approvals*

Thank You
And
Enjoy The Summer