ProcellaCOR: A New Tool for Aquatic Plant Management

Jon Gosselin
Northeast Technical Specialist
May 5, 2018
Incentivizing the Public to Support Invasive Species Management:
Eurasian Milfoil Reduces Lakefront Property Values

1,258 lakeshore property sale transactions (1995–2006) in 17 lakes with milfoil and 24 un-invaded lakes in King County

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
Selective control

Lack of impact to pondweeds and naiad

Extended Control

Pond continues to have no EWM as of spring 2018.
Day of Treatment: June 13, 2017
Results: Milfoil controlled, natives expanded

<table>
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<tr>
<th>Date</th>
<th>%FOO</th>
<th>EWM</th>
<th>Elodea</th>
<th>Sago</th>
<th>Illinois PW</th>
<th>CLP</th>
<th>Coontail</th>
<th>Cattail</th>
<th>Naiad</th>
<th>Variable PW</th>
<th>Floating Leaf PW</th>
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TREATMENT JUNE 13

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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
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

Stewards of Water
3 Season’s Milfoil Control

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