



LAKE JOSEPHINE IMPROVEMENT ASSOCIATION 2016 ANNUAL HOMEOWNERS' MEETING

November 22, 2016

Welcome!

- Introduction of Board Members
 - Maribelle Cushman
 - Dick Hanson
 - Mark Maher
 - Pam Newcome
 - R.J. Newcome
 - Brett Schreiber
 - Jamie Schreiber
 - Catherine Robinson
 - Jill Shwiff

2016 Year-in-Review

Treatment

- Heading into 2016, bumper crop of EWM anticipated
 - Major infestation in 2015
 - Drove creation of Lake Vegetation Management Plan
 - 24 acres treated in 2015
- In 2016, Board worked with DNR to gain approval for new full- lake, dual herbicide treatment
 - Used successfully elsewhere in U.S. but *very* expensive
- “All systems go” but negligible EWM detected in spring 2016, despite *multiple* attempts by DNR, RCWD and us
- Result: DNR allowed 2016 spot treatment of <5 acres

2016 Year-in-Review

Treatment, cont'd.

- Weeds are unpredictable & reason our EWM subsided so drastically is unknown
- Based on input from homeowners, the 2016 season was one of the lake's best!
- We saw spots of increased weeds in the Fall
 - DNR identified most of those native, reclaiming the space EWM took from them
 - Their presence indicates a healthy lake
 - Unfortunately, limited treatment allowed by DNR
- We also saw isolated algae blooms
 - Treatable, but too late in season to make an impact

2016 Year-in-Review

Fundraising

- Homeowners recognized the need to build a fund to cover treatment AND to protect against a future catastrophic event (e.g., Zebra Mussels)
- Thank you all for stepping up--79% of homeowners contributed and average of \$443 per property!
- We currently have ~ \$30K in funds
- We appreciate your generosity & continued support

Social

- Winter Blast—warmer setting this year!
- 3rd Annual Flotilla—most successful yet!

2016 Year-in-Review

Collaboration with Others

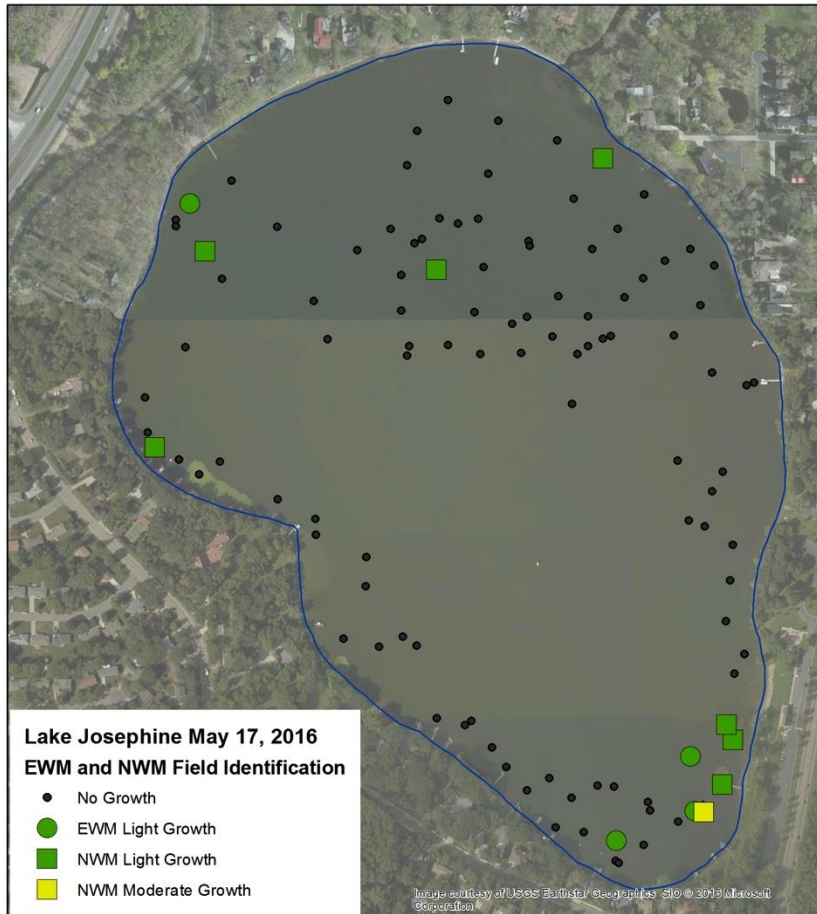
- DNR—strong partnership
- RCWD—assisting with delineations & reconnaissance
- Ramsey Cty Conservation District—state legislative funds, pavement striping
- Other NE metro lake associations

501(c)3 Status

- Mark Maher spearheading effort to make donations tax deductible
- More info coming soon

Current Health of the Lake—EWM Prevalence

Lake Josephine Eurasian Watermilfoil and Northern Watermilfoil Field Identification

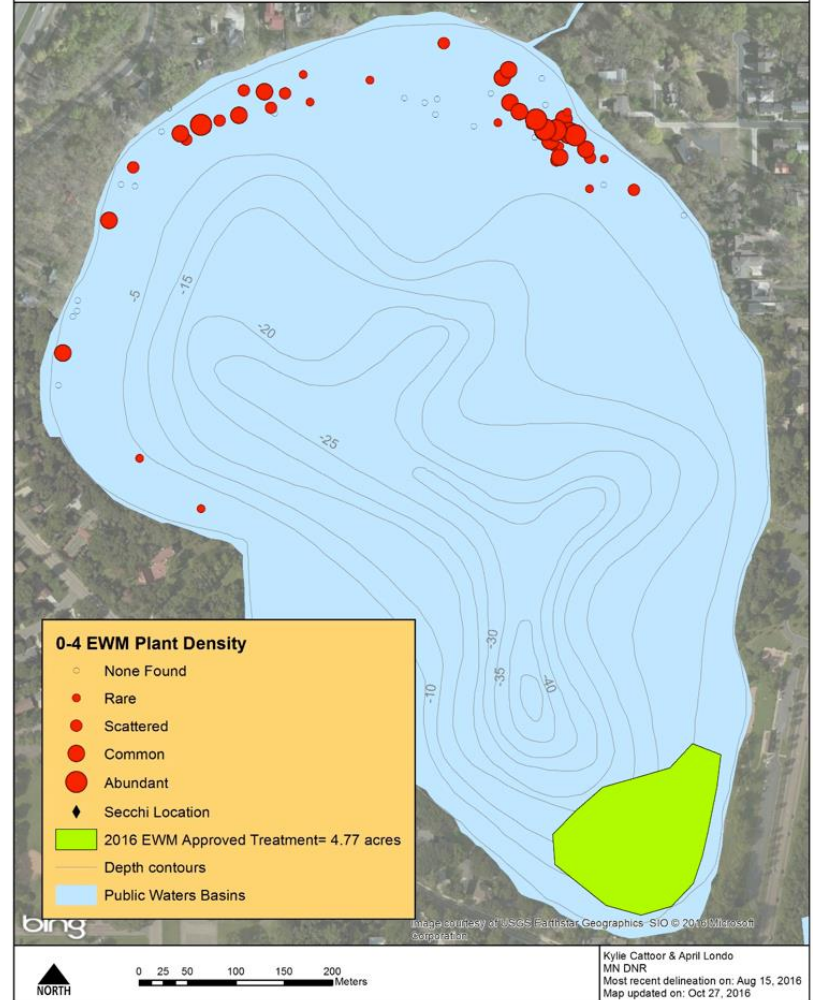


Eurasian Watermilfoil (EWM)- Non-native
Northern Watermilfoil (NWM)- Native



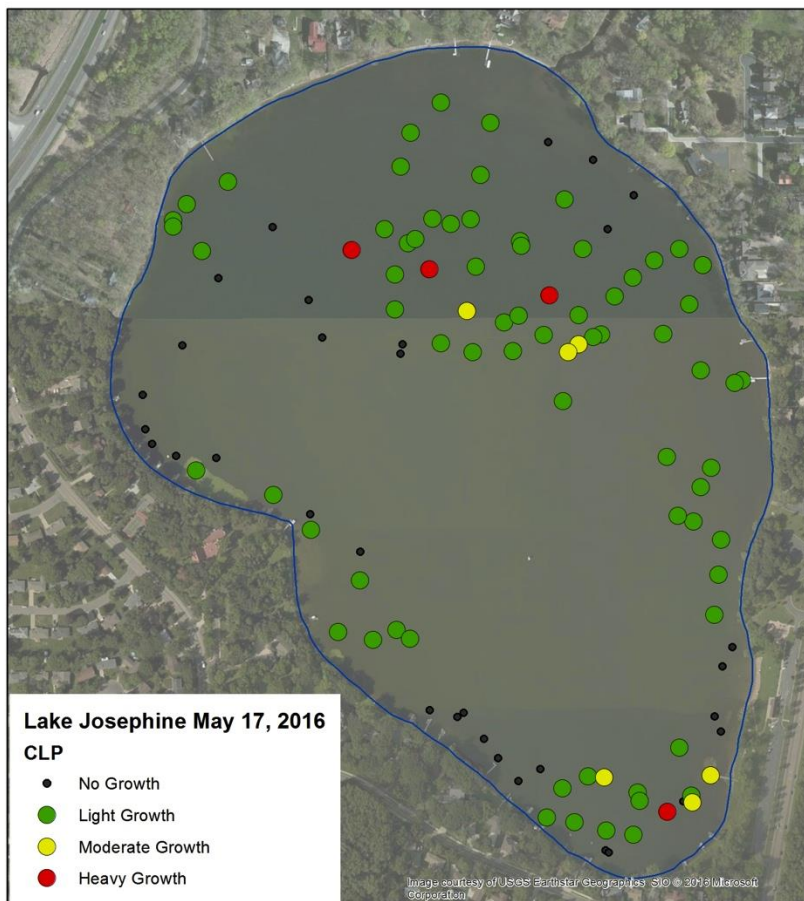
Blue Water Science
Field Data Collected May 17, 2016
Map Created: May 18, 2016
UTM NAD 1983

Lake Josephine, Ramsey County: 2016 Eurasian Watermilfoil Treatment



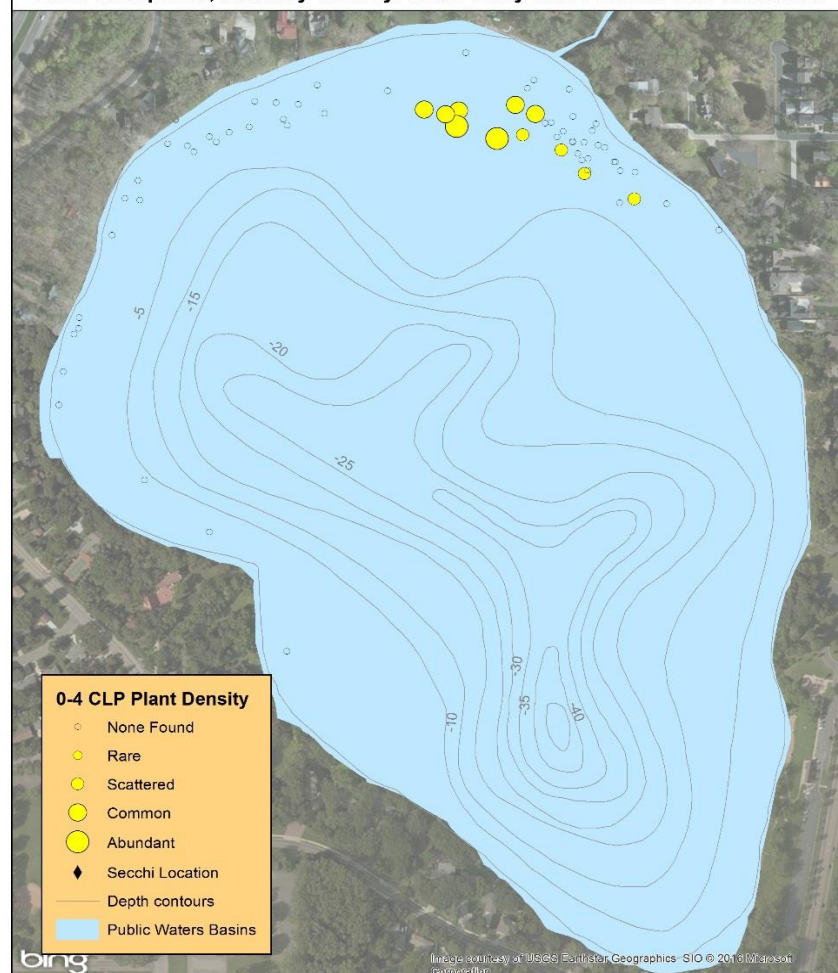
Current Health of the Lake—CLP Prevalence

Lake Josephine Curlyleaf Pondweed
May 17, 2016



Blue Water Science
Field Data Collected May 17, 2016
Map Created: May 18, 2016
UTM NAD 1983

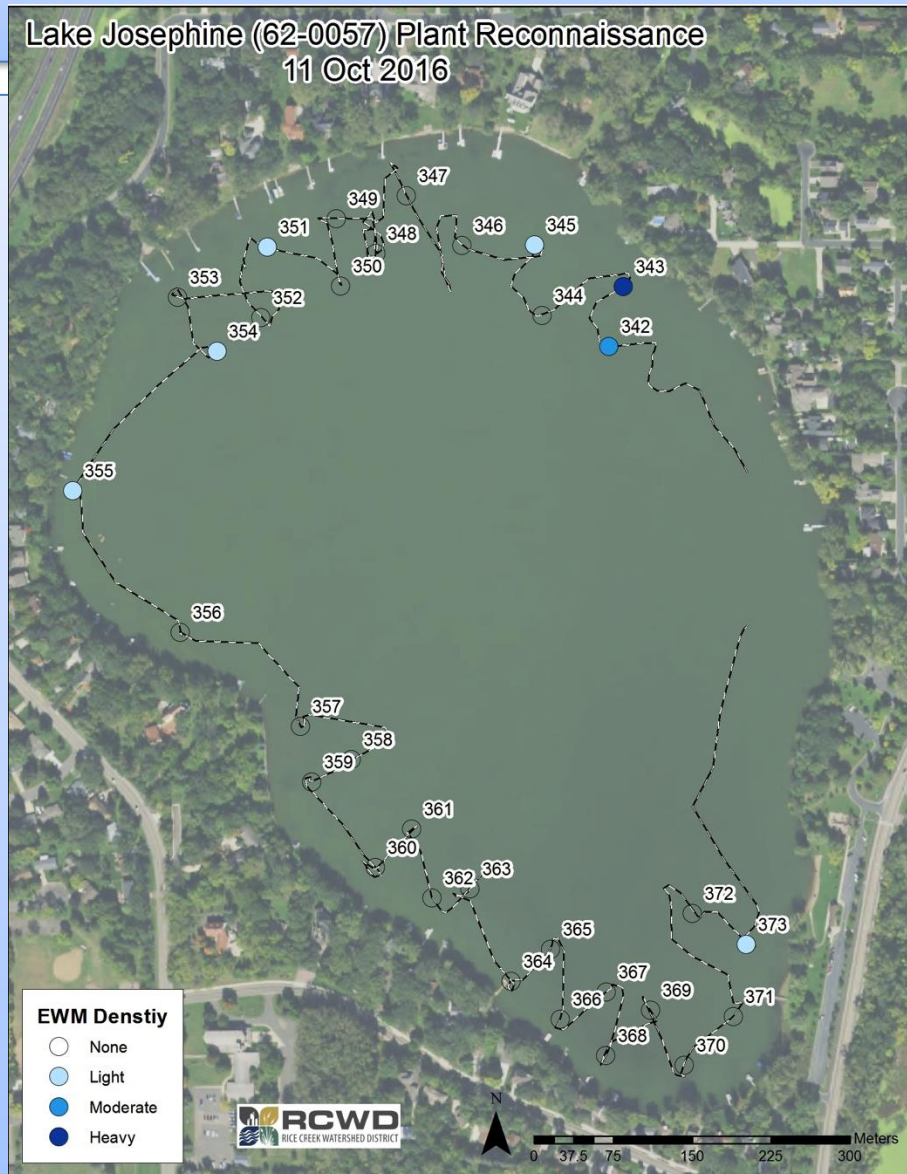
Lake Josephine, Ramsey County: 2016 Curly-leaf Pondweed Delineation



0 25 50 100 150 200 Meters

Kylie Cattoor & April Londo
MN DNR
Most recent delineation on: Aug 15, 2016
Map updated on: Oct 27, 2016

Fall 2016 Reconnaissance



Completed by
RCWD and
Brett Schreiber

Tentative 2017 Treatment Plans

Three Options

(Dependent upon amount of weeds found in spring 2017 delineation)

Option	Treatment Description	Cost	Amount of EWM to Justify
1	Conventional EWM spot treatment with 2,4-D or Triclopyr & CLP treatment with Aquathol	Least expensive ~\$15K (EWM treatment up to 30 acres @ \$400/acre + CLP treatment up to 12 acres @ \$260/acre)	Preferred if small. sporadic patches of EWM
2	Full-Lake, dual-herbicide treatment with 2,4-D and Endothall	Most expensive \$48K-\$60K	Huge infestation needed
3	Full lake treatment with Fluridone	Moderately expensive \$25K-\$30K	Moderate infestation needed

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Full-Lake Treatment with Fluridone

- Offered by DNR as preferred option (if EWM infestation justifies)
- Successfully treated EWM and CLP on Crooked Lake in Anoka Cty
- Used elsewhere in U.S.
- Works at a low dosage & does less harm to native weeds than other herbicides
- Would treat once in spring, followed by additional “bumps” to maintain a specific saturation level in lake
- Effect builds over time, meaning impact might not be seen until mid- or late-summer but the result should be sustained in future years, thereby requiring less treatment
- Crooked Lake homeowners very pleased with results—no signs of EWM detected at end of season
- Currently what Board is preparing for



LAKE JOSEPHINE IMPROVEMENT ASSOCIATION

FINANCIAL REPORT
CONTRIBUTION HISTORY & FUTURE NEED

Thank You 2016 Season Contributors

Anderson, Lowell & Welte, Kathleen
Arsenault, Paul & Jeanne
Aune, Eleanor
Bertini, Michael & Botelho, Kristine
Brodth, Jack & Marlene
Boeck, Rob & Cathleen
Coblentz, Eddie & Airika
Collins, Jim & Ann Marie
Cummings, Scott & Tracy
Cushman, Maribelle
Dahl, Steve & Janelle
Dougherty, Tom & Mona
Erickson, David & Iren
Estey, Ryan & Marti
Forsythe, David & Carol
Fryd, Dave & Dee
Gray, Gary & Jill
Gustafson, Dave & Dawn
Hamburger, John & Jill

Hanson, Dick & Judie
Hoivik, Tom
Hsiao, Joyce
Johnson, Mark & Penny
Johnson, Todd & Beth
Josephine Hills Association
Kadrie, Chuck & Gertrude
Kanzenbach, Raye & MacDonald, Joni
Kucera, Emil & Angie
Lanasa, Jeff & Linda
Lee, Peter & Gozali-Lee, Edith
Lubratt, Lynda
Maher, Mark & Mary
Mickelson, David & Carol
Newcome, R. J. & Pam
Pieper, David & Cheleen
Presbyterian Homes & Services
Rice, Dave & Therese
Robinson, Amy & Kurt

Robinson, Catherine & Risch, Therace
Rosenthal, Craig & Chelsey
Schoenleber, Mike & Kirsten
Schreiber, Brett & Jamie
Schultz, Rick & Amy
Schumacher, Elizabeth
Schumacher, Steve & Janet
Schur, Howard & Boone, Karen
Sellars, Stuart
Sheehan, Barbie
Shwiff, Jill & Stuart
Simons, Preston & Irena
Skubitz, Jason & Barb
Thompson, Judy
Wallin, Scott & Cheryl
Woodburn, Bob & Sally
Young, Warren & Morgan
Zappa, Joe & Chris



A year in review...

2016 Contribution Campaign

Offshore Treatment

2016 Goals

- Raise enough money to prepare for the 2016 treatment season
- Seeking 100% participation of lakeshore properties
- Begin to build a contingency fund

Why?

- Future revenue sources are not expected to keep pace with expenses for ongoing treatments.
- Prepare for potential catastrophic issue(s)

What'd we ask?

- Ideal 2016 Treatment Estimates:
 - \$15,600-\$23,040 = **\$350-\$500/property***
 - <\$1-\$1.40/day
- We committed to treating the best we can with funds collected!

How'd we do?

- \$23,967.47 was collected in 2016
- \$443 = Avg. contribution/property
- 79.4% of Lake Shore Properties Contributed.

*Assumes ~70% participation

Donate Now
Secure donations through PayPal



Contribution History

**In late 2012, Lake Josephine was diagnosed with Eurasian Water Milfoil (EWM).
For the first time in Fall of 2013, the Board sought a voluntary contribution from lake homeowners to cover 2014 offshore EWM treatment.**

2014 Season

- 20.4 acres EWM Offshore Treatment = \$6,426 Total Cost
- Monies Raised
 - \$5,625 Donations + \$1000 DNR Grant = \$6,525
- \$127 = avg. contribution/property
- 63% lakeshore properties contributed

2015 Season

- 24.1 acres EWM Offshore Treatment = \$8,194 Total Cost
- Monies Raised
 - \$11,300 Donations + \$2,300 DNR Grant = \$13,600
- \$208 = avg. contribution/property
- 79% lakeshore properties contributed

2016 Season

- 4.77 acres EWM Offshore Treatment = \$1,875 Total Cost
- Monies Raised
 - \$23,967 Donations + \$1,687 DNR Grant = \$25,654
- \$443 = avg. contribution/property
- 79% lakeshore properties contributed

In the fall of 2014, the board began to discuss a more pro-active approach & the need to build a fund in-advance of the spring season.



Financial Reports

2014 Summary

Year Beginning Balance:	\$7,758.63
Expenses	\$6,426.00
Income	\$7,625.00
End of Year Balance	\$8,957.63

2015 Summary

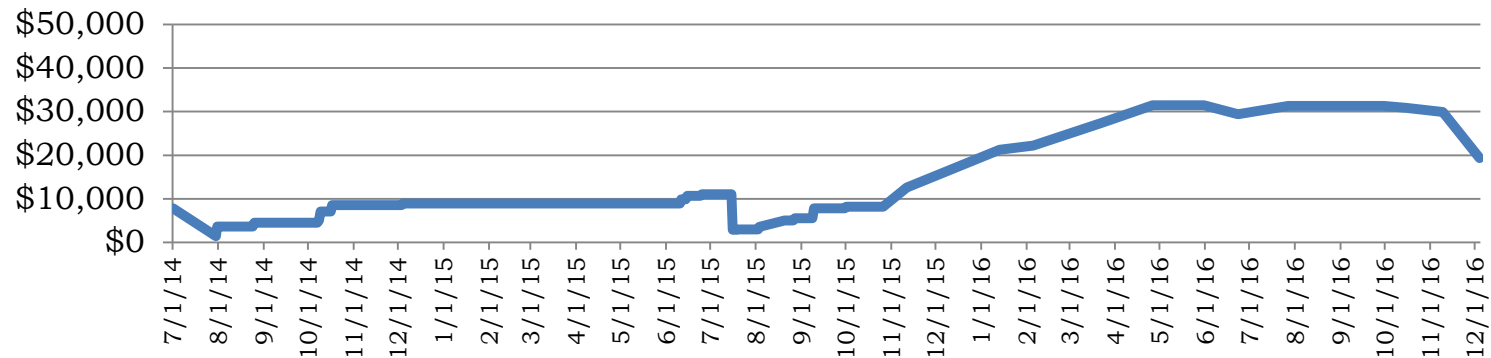
Year Beginning Balance:	\$8,957.63
Expenses	\$8,194.00
Income	\$20,500.00
End of Year Balance	\$21,263.63

2016 Summary (thru 11/15/16)

Year Beginning Balance:	\$21,263.63
Expenses	\$3,729.61
Income	\$12,404.45
Today's Balance	\$29,938.47

End of Year Balances represent our Contingency fund

Checking Account Balance



2017 Management Options & Associated Costs

Option 1

'Business As Usual'

- 'Business As Usual' Spot-Treating EWM, like years past.
- Acreage would depend on amount of EWM detected in a spring delineation.
- Cost Estimates = **\$12,000 + \$3,120 = 15K**
 - Triclopyr herbicide is \$400/acre (up to 30 acres) + CLP treatment is \$260/acre (up to 12 acres)
- To treat CLP beyond the littoral limit, we need a variance & additional cost

Option 2

Full-Lake Dual Herbicide

- Treat with both 2,4-D & Endothal
- Estimated cost = **\$48K-\$60K**
- Only allowed by the DNR should we have significant EWM infestation
- In 2016, UPI had offered to aid in funding – which is not guaranteed for 2017.

Option 3

Full-Lake Treatment

- This full-lake treatment with Fluridone was suggested by the DNR as a *NEW* option
- Viable option for both EWM & CLP if the spring delineations are similar to our fall reconnaissance
- Early spring treatment, effect slowly builds over time
- Estimated cost = **\$25K-\$30K**

The board has voted to build our fundraising targets around Option 3, in order to be prepared to best treat the upcoming 2017 season.

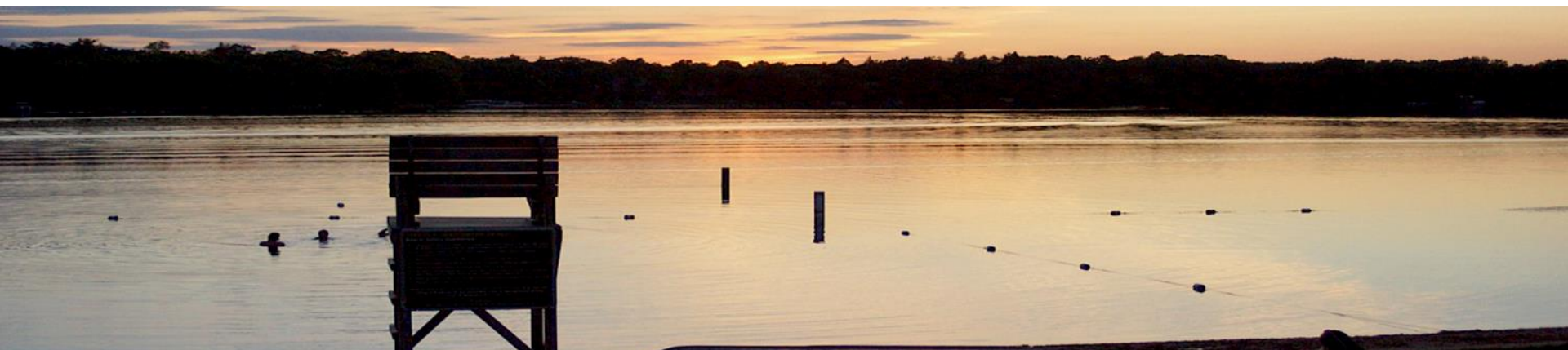


Importance of a Contingency Fund

Eurasian water milfoil is an infestation that CANNOT be eradicated, it can only be controlled.

FUTURE CONSIDERATIONS

- Annual DNR Permit & Variance Approval (CLP only)
- Plant Survey + Lake Vegetation Management Plan
\$1,000-3,000 - Approximate Annual Cost
- DNR grants we've relied on in the past are nearly dried-up
- We have only treated EWM in the past, but we have other bothersome weeds that we could be addressing IF we had funds:
 - Curley Leaf Pondweed – leaves thick stalks in the water even after it is killed.
 - Filamentous Algae – creates an oily slick that floats on the surface of the water.
 - Stony Starwort
- Treatment costs may continue to grow IF our infestations grow and/or we need to change up herbicides, as weeds become resistant.
- We need to prepare to protect against a catastrophic event such as Zebra Mussel infestation.



2017 & Beyond

Management Options & Associated Costs

- Lake Vegetation Management Plan = ~~\$1,000~~ (board negotiated) Spring 2016
- Plant Survey = ~~\$3,000~~ (board negotiated) Spring 2016
- Genetic Weed Analysis = ~495
- Lake Delineation = \$1K
- Treatment Permit Charge
- Option 3 – Full Lake Treatment = \$25K-\$30K
- Assume NO DNR grant = \$0
- Agent Image Website Hosting = \$495 annual fee
- GoDaddy domain charge = \$10 fee for 2-year term, due next year

2017 TREATMENT NEED: \$27K-\$32K

Additional Considerations:

- Algae Treatment: \$244/acre x 5 acres = \$1,220
- Need to build a future contingency fund
 - Early Treatment Required for Zebra Mussels = \$500/acre x 10 acres = \$5,000

TOTAL TREATMENT ESTIMATE: \$23,220-\$34,220



2017 Contribution Campaign

Offshore Treatment

Who?

- Seeking 100% participation of lakeshore properties
- Seeking offshore & access neighborhood participation too

When?

- NOW... To best prepare for the 2017 summer season, we need to continue to ensure sufficient funding for preferred treatment option & the additional considerations

Why?

- Future revenue sources are not expected to keep pace with expenses for ongoing treatments.
- Need to build a contingency fund

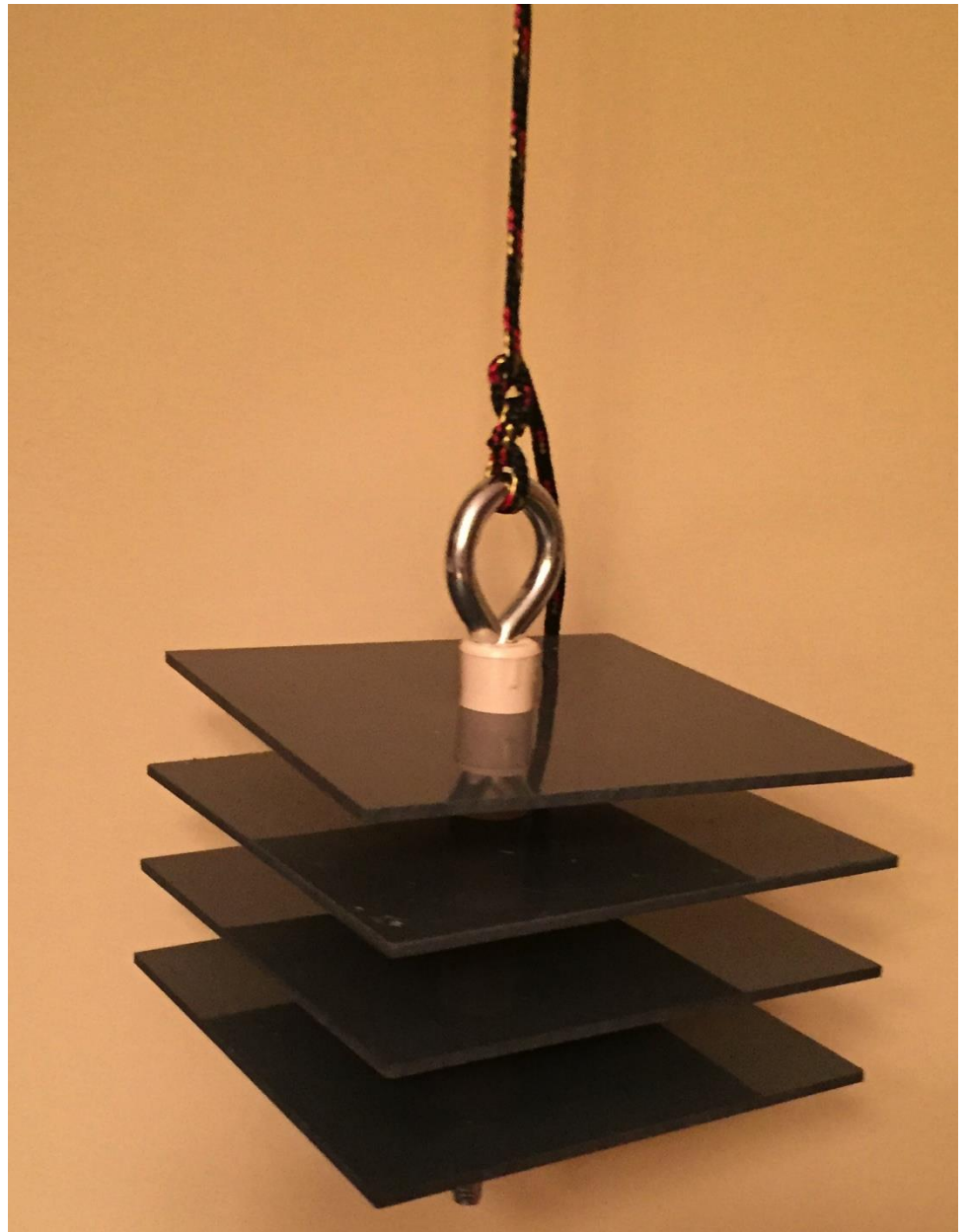
How much?

- As much as you can...we commit to treating the best we can with funds collected!
- Ideal 2017 Treatment Estimates:
 - \$23,220-\$34,220
 - **\$350-\$500/property**
 - <\$1-\$1.40/day
- Every little bit helps!

Donate Now
Secure donations through PayPal



Don't forget
to pick up
your Zebra
Mussel
Sampler Kit!



Thank You for Your Engagement!

Also Before You Leave

- If you're prepared to submit your 2017 contribution, please do so!
- Please double-check your contact info at entry desk
- Complete the survey at your table—we welcome your input!

After Meeting

- Share recap with neighbors who may have missed meeting
- Visit our new website: <http://lakejosephineimprovementassociation.com/>
- Mark your calendars—WINTER BLAST set for SATURDAY, FEBRUARY 4th.
More to come soon!



