



Garry Waters 2013 Progress Report

**A grassroots initiative between
the Township of North Glengarry and
The Loch Garry Lake Association
to repair Loch Garry.**

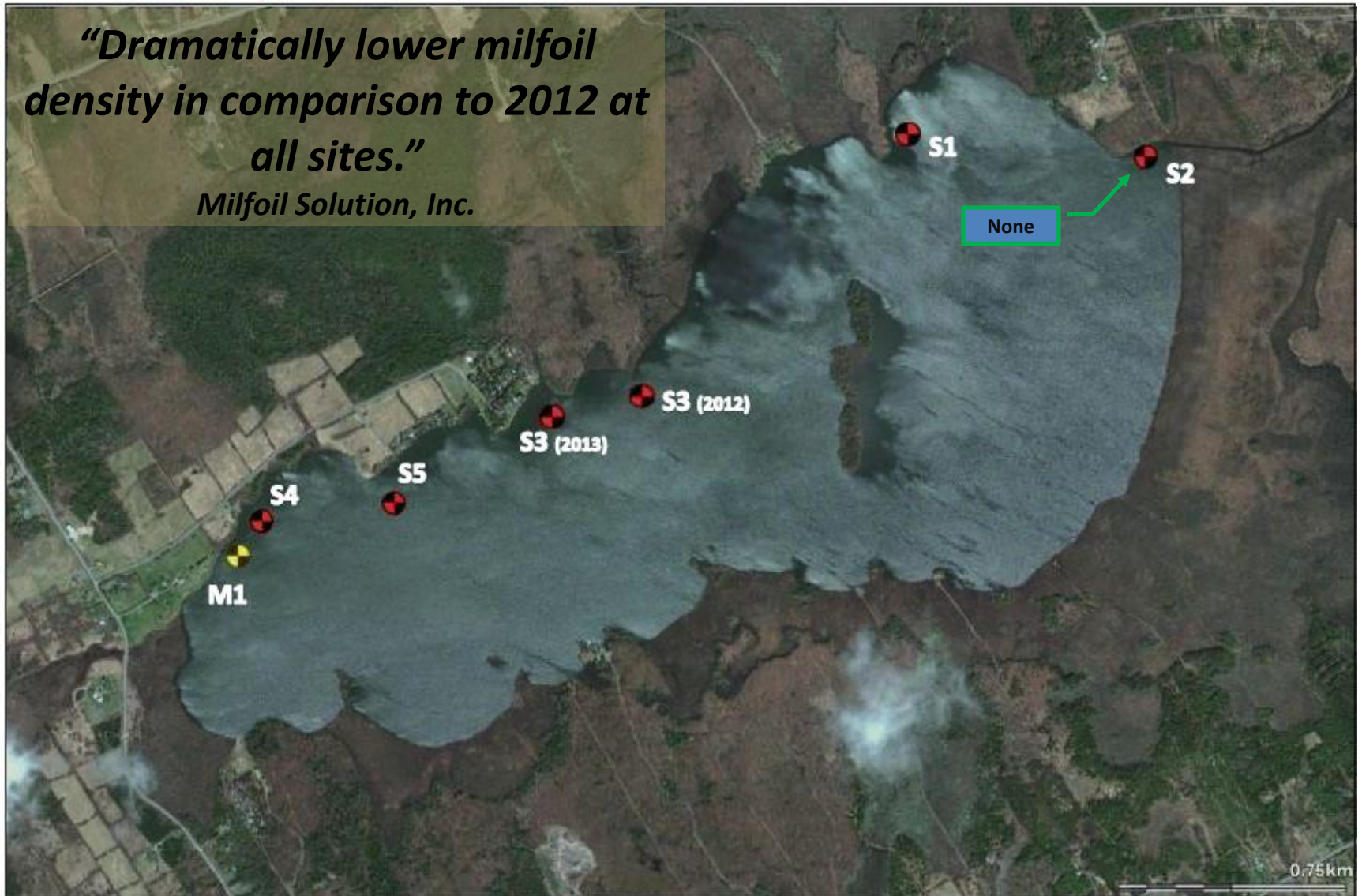


50,000 weevils were stocked at four sites in Loch Garry in 2013

Site	Initial Survey/ Stocking Date	Final Survey Date	Number of Weevils
S1	July 19	September 5	12,500
S3	July 24	September 5	12,500
S4	July 14 / July 19	September 5	12,500
S5	July 24	September 5	12,500
M1	July 23	September 5	0
		Total	50,000

“Dramatically lower milfoil density in comparison to 2012 at all sites.”

Milfoil Solution, Inc.



Loch Garry
Glengarry County,
Ontario

-  Weevil Stocking Sites
-  Monitoring Sites





“damage caused by weevil larvae was identified in the follow-up survey at all sites that were stocked”

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Site	July density (stems/m ²)	September density (stems/m ²)	2012 density (stems/m ²)
S1	204	63	483
S2	--	--	409
S3	181	133	480
S4	66	11	318
S5	219	156	--
M1	96	63	494

- Average decrease of 44% at all sites
- Average decrease of 16% more than monitoring site
- Eurasian milfoil decreased in ALL sites
- Monitoring site decreased approximately 30%



“Sites established at Loch Garry showed the greatest decrease in milfoil”

Milfoil Solution, Inc.

Lake	Average Initial Density (stems/m ²)	Average Final Density (stems/m ²)	% increase decrease
Loch Garry, S3	181	133	27%
Loch Garry, S5	219	156	29%
Big Cedar, S3	137	122	11%
Big Cedar, S6	122	167	36%
Long Lake, S5	119	133	12%
Rondeau Bay, S3	66	140	111%





Key takeaways for 2013

- Damage observed within milfoil beds in initial survey indicates that a weevil population overwintered and is becoming established. Weevils seen at the monitoring site further indicates overwintering and migration to denser sites.
- All sites significantly decreased in EWM; the stocked sites showed a decrease greater than the monitoring site.
- Milfoil at two stocking sites completely collapsed at start of 2013
- We have every reason to think that we will benefit next year from successful overwintering and a natural early start to the year which will complement the past two years success.
- Cyclic growth in the future can be contained by the continuing presence of weevils.



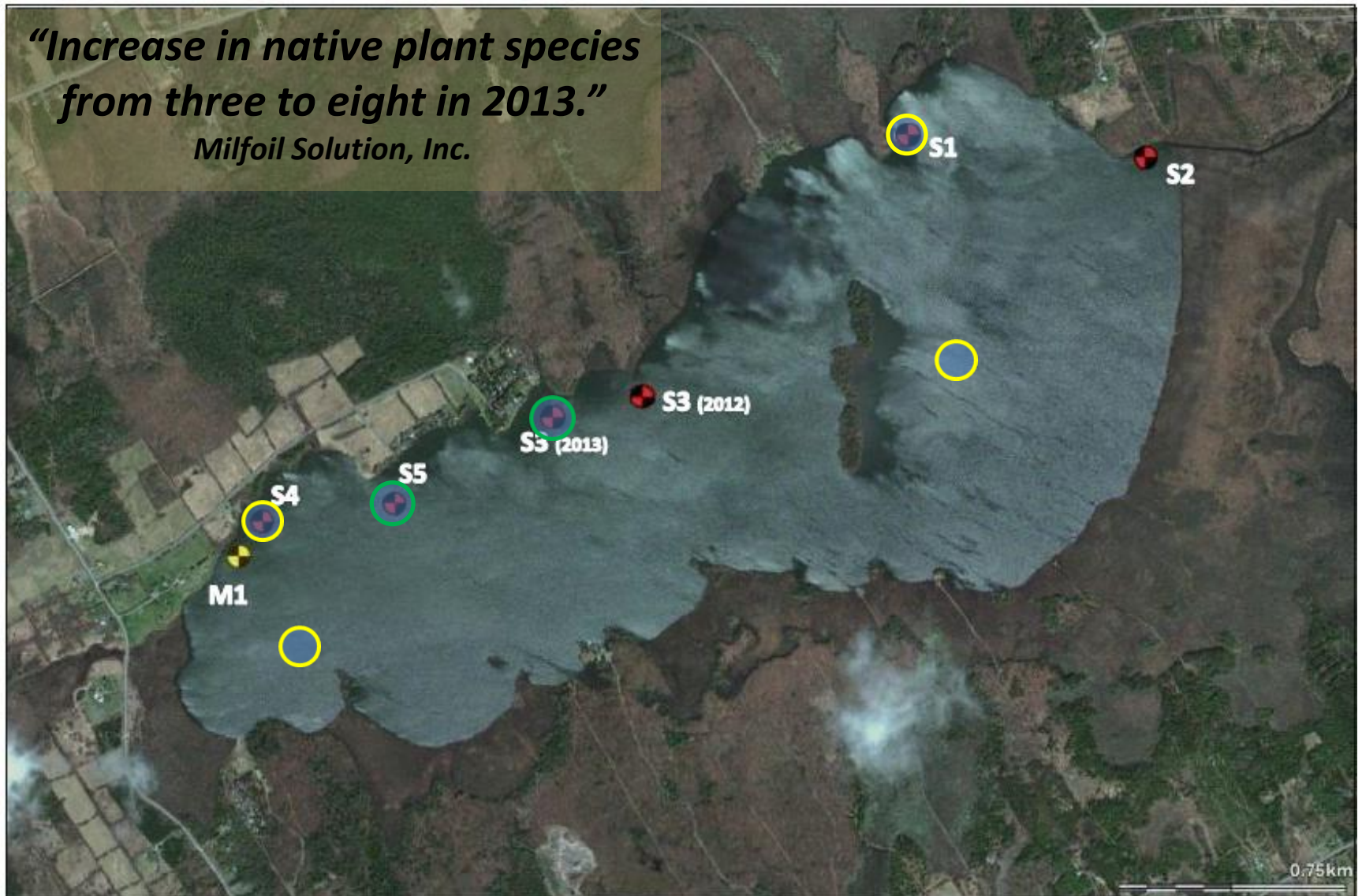
2014 Objectives and Costs

- **Restock established sites**: Maintain weevil stocking at current sites only where warranted
- **Plan for new sites**: Identify new sites to foster continued dispersion of weevils
- **Maintain early start**: Signing a contract in January will advance us in the queue.

Initial & follow-up survey and final report	50,000 weevils	LGLA participation	Cost to North Glengarry
\$7,000	\$45,000	\$10,000	\$42,000 plus HST

***“Increase in native plant species
from three to eight in 2013.”***

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2014 and beyond

- Success following three seasons of stocking and two seasons of overwintering will allow us to better gauge the number of weevils and time required to control the milfoil.
- Plan for phased reduction in annual stocking as success continues and grows.



Mill Pond

- Milfoil remained minimal in 2013.
- Early spring rake would allow for removal of pondweed roots and entire plant.
- Mid-summer skimming to remove algae bloom trapped in weeds would improve cosmetics of Mill Pond.
- Survey by Milfoil Solution, Inc. to monitor the spread of existing milfoil recommended for 2014.



Thank you to our corporate sponsors: Caisse Populaire de la Vallée, Alexandria Moulding, MacEwen Petroleum, Scotiabank and Glengarry Mutual Insurance

Thank you to the Council and Management of The Township of North Glengarry