



... FOR THE SAKE OF WATER QUALITY AND THE FISHERIES RESOURCES ON MANITOULIN ISLAND AND THE GREAT LAKES THAT SURROUND IT

Working to improve and restore watershed areas on Manitoulin Island and the Surrounding Great Lakes for over 10 years.

Manitoulin Streams Improvement Association is a grass roots, non-profit, charitable organization that is focused on large-scale, community based efforts to rehabilitate aquatic ecosystems on Manitoulin Island, in central Ontario. We bring the entire community together to do this via joint, private and public driven initiatives. Our efforts rehabilitate and enhance water quality and the fisheries resource

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Staff changes!

Manitoulin Streams is delighted to welcome back Seija Deschenes. She has returned as the Project Coordinator and has jumped back in with both feet wet... literally!

We wish to thank Marcus Mohr and we wish him well with his new endeavors. We would also like to thank Maria Diebolt and Mary Ellen Shain for their hard work this past year.

Sue Meert worked hard developing and conducting streamside tours creating a new revenue source this past year. She is continuing her efforts this year and assisting Seija with the rehabilitation efforts.



Susanne Meert (left) Seija Deschenes (right)

New Board Member

Pax McKenna is a resident of Manitoulin Island, moving to Michael's Bay in 1997 from Owen Sound Ontario. He currently lives on part of the Manitou River a short distance below the Government Road.



Pax McKenna

Pax retired from the Ontario Provincial Police in 2000. After retirement he worked for Tehkummah Township as their harbour master in Southbay Mouth for 5 years. He currently works, casually, for Carl Brown Bus.

Manitoulin Streams Board would like to wish Glen McDougall good luck with his new endeavors and thank him for being a Board member and representing the Mindemoya Area and Ron Becks for temporarily filling in this position.

Highlighted Events

Manitoulin Streams was happy to be a part of many workshops and events in 2012 creating awareness reaching over 1500 people. Sue presented educational presentations to schools on and off the island to bring awareness of our stream restoration efforts. Students that attend a London Ontario school, St. Francis, were fascinated with our efforts as Sue volunteered to bring news of our good work south.



Susanne giving a "fish talk" at a JK class at Assiginack Public School

Little Current Fish & Game Club at Bass Lake Creek

Manitoulin Streams partnered with the Little Current Fish and Game Club to educate Little Current and Lakeview schools on restoring the Bass Lake Creek walleye population, their jar hatchery and stream restoration efforts. This also included learning to build bass nests, stream walk and talk, wildlife identification, and presentations by Manitoulin Streams and Bill Caesar on his fantastic assortment of fossils.



A student poses by a newly made bass nest (left) Bill Caesar shows off his fossil collection (right)

School groups learn about walleye restoration by Bill Strain



A day with the Little Current Fish & Game Club

Grimesthorpe Creek Enhancement Strategy Workshop

Seija held an educational information workshop for Spring Bay residents pertaining to the completed Grimesthorpe River Enhancement Strategy. These helpful informational sessions are key to spreading awareness about the importance of a healthy watershed, and how residents can get involved. We had a positive turnout and look forward to many more workshops such as this.

KTEI Educational/Tree Planting

Our Stream team was pleased to spend the day in M'Chigeeng with KTEI to be involved with their Environmental Day. Great care took place as the students picked up garbage and planted trees that were donated by Manitoulin Streams. We were honoured to join their luncheon for tasty Native food and traditional prayers. Thanks for including us KTEI!



Hawewater Casting Competition

Manitoulin Streams joined in the fun during Hawewater weekend holding the first Casting Competition. There was fun for all age groups and prizes donated by OFAH, Little Current Fish and Game Club, Up-Top-Shop and MASC.



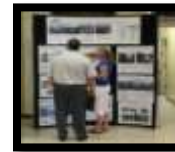
Casting Competition; Children's Category



Casting Competition; Adult Category

International Joint Commission Great Lakes Protection Act meetings

Manitoulin Streams along with MASC were vital in getting the IJC and the Great Lakes Protection Act meetings to come to Manitoulin Island. Seija presented our concerns on how the low water levels are impacting our stream restoration efforts.



Seija showing MPP Mike Mantha our display at the IJC meeting.



Over 300 concerned residents about declining water levels.

Hoey McDermid Fishing Derby

There was a wonderful turnout for the first annual Hoey McDermid Fishing Derby, in honour of a long time member and respected resident of Providence Bay. A portion of the proceeds went toward our stream restoration efforts and donations were received by Board member Therese Trainor. Sue was present to promote restoration efforts and awareness of invasive species.



Happy participant at the Hoey McDermid Derby



WWF Shoreline cleanup

Manitoulin Streams was pleased to hold a World Wildlife Federation Canadian Shoreline Cleanup. The entire Low Island area of Little Current was

Dredging of Providence Bay

We are pleased to announce for the second year we received approval and permits from the MNR and DFO to dredge the mouth of the Mindemoya River. The weather didn't cooperate with 60km winds during the first attempt and therefore we had to dredge again. Many salmon were spotted entering the mouth of the river and making their way upstream toward important spawning grounds. Thank you to the Municipality of Central Manitoulin for their in-kind support providing the backhoe and operator.

Lake Manitou Area Association

Manitoulin Streams would like to thank the Lake Manitou Area Association (LMAA) for their \$5000 donation toward our stream rehabilitation projects.



cleared of garbage and debris from entering the North Channel. Thank you to those who participated and to Orr's Value Mart for donating refreshments.



Eco-Tourism Manitoulin Streams is pleased to announce newly created streamside tours by Susanne Meert. These tourism options are to educate the public on the importance of stream rehabilitation by partnering with local businesses and creating authentic experiences. The following tours have been fully functioning for 2012/2013:

- *Horseback Riding Adventure*
- *Flyfishing & Tying Experience*
- *Yoga & Meditation Experiences*
- *Wilderness Awareness Adventure*
- *Native Art Sessions*
- *Snowshoeing Adventure with Auberge*
- *Kayaking Adventure*
- *Learn to fish*
- *Stream Detective*



Fly Fishing/Tying Experience



Catered Lunch



Fly Tying/Fishing techniques



Stream Detective Adventure



Stream Detective Adventure



Horseback Riding Streamside Wilderness Survival



Grimesthorpe Creek

Manitoulin Streams would like to thank the landowners, Ontario Rangers and Maria Diebolt for helping with installing a Thrifty King Nosepump and a cement pad to reduce ground water contamination along Grimesthorpe Creek, installing

Restoration Work 2012

Green Bay Creek

The Green Bay Creek site required two (2) Frostfree nose pumps to be installed to promote remote watering, fencing to restrict the livestock access to the creek and planting of native trees and shrubs.

The pumps were installed away from the creek to prevent water source contamination. The design of the pump prevents it from freezing during the winter and it includes a cement pad which prevents ground water contamination.

- 358 trees planted
- 45.72m fencing installed
- (64 m) stream length buffered and restored
- (390.14m² + 585.22m²=975.36 m²) riparian habitat restored
- 0.09754 hectares of land retired
- 2 frost-free nose pumps installed



Thank you to the Lake Manitou Area Association, Little Current Fish and Game Club and Manitoulin Streams volunteers!

cedar rail fencing and planting native trees and shrubs. Accomplishments include

- 1745 trees planted
- 1896 m² of shoreline & wetland protected, stabilized and improved.
- 100 (m) of cedar rail fencing installed
- 94 (m) stream length buffered and restored
- Installed frost free nose-pump and cement pad



Thrifty King Nosepump

Min 320 A & B

Sites MIN 320a had extensive erosion and lack of canopy due to improper land use practices and unrestricted livestock access. Fluctuating water levels also undermined the stability of the banks creating large amounts of erosion and sediment discharge. In order to rehabilitate this site, bio-engineered site designs were created to prevent further erosion and sediment discharge. Large excavators were used to grade the vertical eroding banks back to a 2:1 slope. The resulting banks were vegetated with native grasses and tree/shrub species. A designated livestock watering pad with angled cobble and fencing prevent further erosion.

Manitoulin Streams was excited about rehabilitating this final site on the Mindemoya River as it completed our goal of rehabilitating the stretch of the Mindemoya River between



Leslie and Delmer Fields transporting rails



Approx. 52 m of cedar rail fence installed



Ontario Rangers installing fencing

Monument Road and Blue Road. We restored this severely degraded aquatic & shoreline habitat, which in turn will prevent erosion of soil from its banks reducing sedimentation from occurring over critical spawning habitat and providing sustainable fish habitat and structure to increase productivity of salmonid and other associated cold water species.

MIN 320 a

- 568 trees planted
- (51.8 m) fencing installed
- 1 cattle watering ramp installed (6.7 m x 6.4 m depth= 42.88 m²)
- 58.2 linear (m) of stream length buffered and restored
- 4 root wads providing in-stream habitat and bank protection installed
- (700.66m² x 2=1401.32m²) riparian habitat restored (both sides of the stream)
- 0.14 hectares of land retired



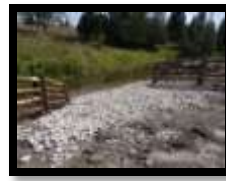
Ontario Rangers installing the fencing



Graded slopes and native vegetation planted



Root wads protecting the shoreline from erosion



Livestock watering pad

MIN 320 b

- 474 trees planted
- 37.5 linear (m) of stream buffered and restored
- 4 root wads providing in-stream habitat and bank protection installed
- 1 stone drainage ditch to prevent shoreline bank erosion installed 2.7m x 13m=35.1m²
- 11 linear (m) or (11x3m=33m²) of the shoreline stabilized at a corner bend by hand placing cobble and boulder substrate
- 26.5m x 11.5m =609.5m² of riparian habitat restored on both sides of the stream
- 0.6095 Hectares of land retired
- (23.5m²) of spawning habitat created



Native trees and shrubs planted



Spawning gravel to enhance spawning habitat



Bio-degradable Coconut Coir mat and native trees and grass seed planted to prevent sedimentation from occurring.



Ontario Rangers stabilizing a corner bank with cobble and boulders to prevent erosion

A Sad Goodbye to the Ontario Rangers Program

The Ontario ranger program has been supporting Manitoulin Streams' efforts for many years. Long hours of building fences, planting trees and moving rocks are only a few of the tedious jobs these girls

have been faced with. Yet, they always had a smile on their faces.

Recent government cutbacks will have many impacts on environmental issues and programs. Manitoulin Streams will feel the loss of this

program and will have to find ways to replace this program.



We thank all those girls for their hard work and dedication!

Lower Norton's Creek

During the summer, work continued on Lower Norton's Creek to establish fascines to constrict the creek in order to increase the velocity of water downstream to scour sediment and create potential spawning habitat for brook trout.

Accomplishments for the Lower Norton's Creek

- (91.74m²) of shoreline protected, stabilized or improved
- Two (36 m² & 13.78 m²) artificial fascine type banks created and 3 (28.52 m², 7.92 m² & 5.52 m²) enhanced with additional top soil and native seed
- 6 beaver dams removed
- 2 beaver channels blocked off to increase stream velocity
- (91.74 m²) of native grass seed planted
- 6m of wire mesh installed under bridge to prevent beavers from blocking water flow.



Coir matting



Native grass seed



6 Beaver dams were removed to increase velocity and fish passage.

10,000 Eyed Brook Trout Stocked

In December 2012, we held our 4th annual eyed egg event. Over 60 volunteers showed up for this fabulous event. Lakeview Public School came to help with the transplanting the eggs into **Scotty boxes** prior to being released in Norton's Creek for their hatching destination.



Thank you to the MNR and Hill's Lake Fish Hatchery, Little Current Fish and Game Club, Lake Manitou Area Association, Lakeview School Grade 7 & 8 Class, Manitoulin Stream members, Community Living and everyone that showed up to make this event a success. Thank you to all our contributors: Orr's Val mart, Bob and Jean Hutton, Jean Hutton, Burke & Alice Pennie, Leslie Fields and all the ladies that provided the tasty treats and Shaw Farm Supply.





National Recreational Fisheries Award

We are honoured to announce that we have been notified that we will be awarded the **National Recreational Fisheries Award for 2012**. Our efforts have not gone unnoticed. We would like to thank all our volunteers that have helped make us become a blue print of success for other communities to follow.

Our Awards night date is to be set for 2013, where the Minister himself will present the award. Way to go team!

A Special Thank you to our Funding Partners and Volunteers!

Landowners	OMNR - Community Fish & Wildlife Involvement Program (CFWIP)
Little Current Fish and Game Club	OMNR - Canada Ontario Agreement (COA)
Manitoulin Area Stewardship Council	OMNR - Ontario/Stewardship Rangers
United Fish and Game Club	OMNR - Ontario Stewardship Opportunity Fund (OSOF)
Lake Manitou Area Association	Ministry of the Environment (MOE)
Manitoulin Nature Club	Ontario Trillium Foundation (OTF)
OFAH Zone D	OMAFRA - Environmental Farm Plan
National Turkey Federation	Northern Ontario Heritage Fund Corporation
Sudbury Game & Fish Protective Assoc.	Township of Assiginack
Manitoulin Transport	Township of Billings
Carriere Industrial Supply Ltd	Township of NEMI
The Dunes B & B	Municipality of Central Manitoulin
Providence Bay Charter & Resorts	Ministry of Training, Colleges and Universities
Walmart Evergreen	Fisheries and Oceans Canada
TD Friends of the Environment	Environment Canada
Laurentian University	Eco-Action
College Boreal	FedNor
Kenjgewin Teg Educational Institute	LAMBAC

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