

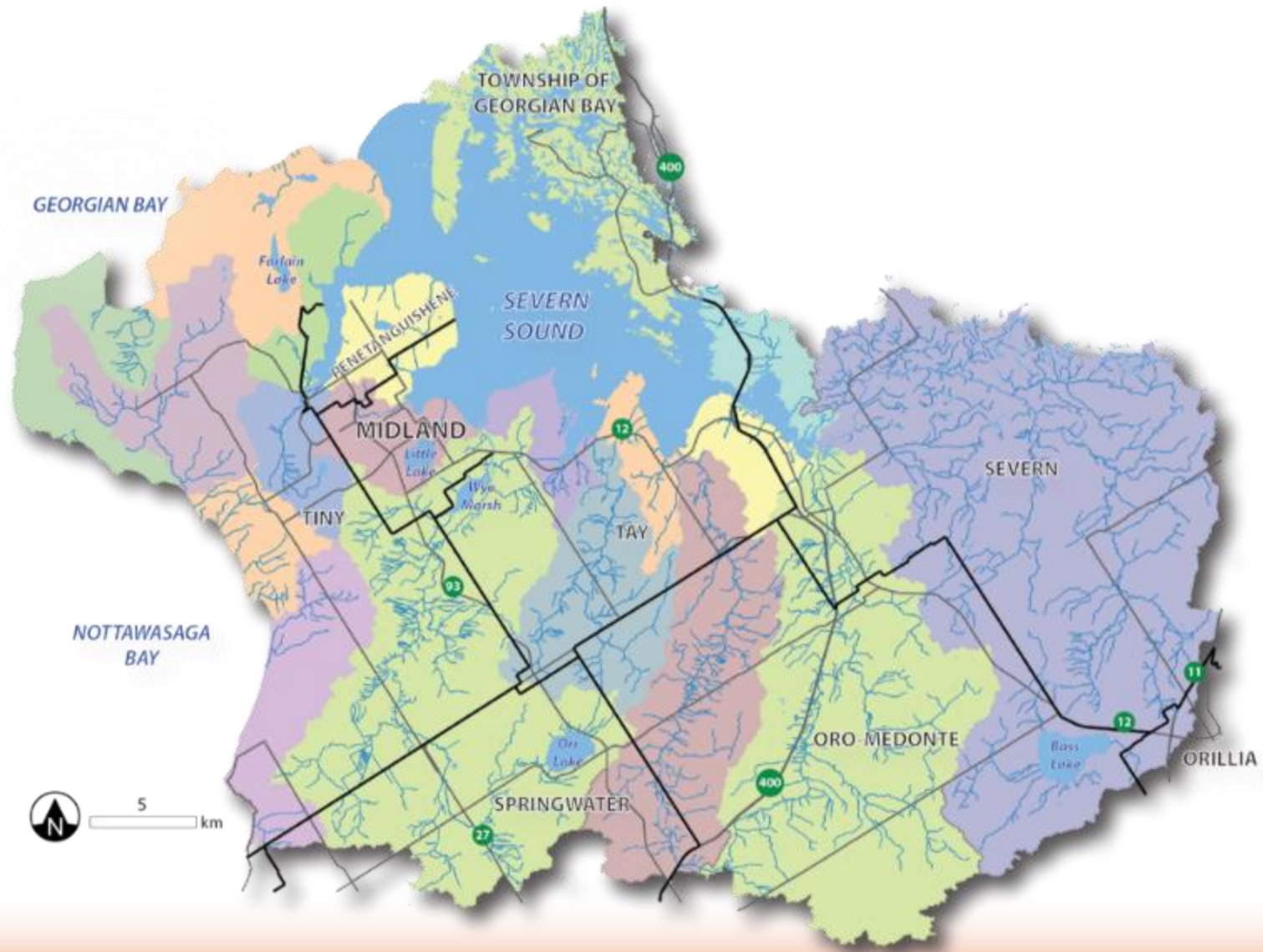
Severn Sound Environmental Association



**Town of Midland
Budget Deputation 2021
Julie Cayley, Executive Director**



The Severn Sound Watershed



What is the Severn Sound Environmental Association (SSEA)?

- 1987 - Severn Sound identified as Great Lakes Area of Concern (AOC)
- 1997 - SSEA Founded
- 2003 - Severn Sound Delisted as AOC
- 2009 - SSEA Joint Municipal Service Board Established (*Municipal Act s.202*)
 - ED reports to Board representing 8 Municipal members
- Source Protection Authority (Ont. *Clean Water Act*, 2006)



**At Severn Sound Environmental Association,
we are committed to ensuring exceptional environmental quality
and exemplary stewardship of the Severn Sound area through
sound science, collaboration and partnerships.**

The SSEA Team



Lex McPhail

IT/GIS Manager

Terrain/Water Res. Tech.,
GIS App. Specialist; Fleming College



Michelle Hudolin

Wetlands & Habitat Biologist

B.Sc.Env.; U. of Guelph
Certified Water Guide, Wetland Evaluator
Trained in ELC, Wetland Restoration



Nikki Priestman Nikki Priestman

Watershed Health Coordinator

B.A.Sc. Hons MA. Envr. Sustainability, Lakehead U.,;
Environmental Technology Adv. Dip., Georgian College



Tamara Brincat

Invasive Species Program Coord.

B.Sc.; U. of Guelph
Ecosystem Restoration; Niagara College;
CERPIT, Ept.



Tracy Roxborough

Sustainability & Climate Action Coord.

Ecosystem Mgmt Tech., Dip.; Writing for the
Environment, Camosun College; EP (In Training)



Julie Cayley

Executive Director

B.Sc.; Trent U.
P. Ag.



Judy Limoges

Treasurer [PT]

CPA, CMA
Business Administration;
Ryerson Polytechnical Institute



Aisha Chiandet

Water Scientist

B.Env.Sc.; U. of Guelph
M.Sc. (Watershed
Ecosystems); Trent U.



Paula Madill

Ecosystem Health Technologist

Environmental Biol. Tech.,;
Canadore College



Melissa Carruthers

Risk Management Official/Inspector

Environmental Tech.,;
Niagara College
MOECC RMO/RMI Training



Seasonal staff, Special Contracts,
Internships, Co-op students

Vacant Positions: *Watershed Monitoring Lead - Office Manager*

2020 COVID-19 Impacts on SSEA

- Office Closed since March 18, 2020
- June- Board approved “slow reopening”
 - IT manager in office
 - Staff access as needed (max 4 in office)
 - Office, field work & vehicle sanitizing protocol
- Staff working remotely
- Shift to online work & services
 - Adapt and pivot with new online tools
 - Webinars & videos, YouTube, Instagram
- Increased costs include:
 - H&S PPE supplies, developing new protocols
 - Office/building signage, arrows etc.
 - Immediate need for computer upgrades/laptops
 - IT – Zoom & online licenses
 - HR – temporary work from home contracts
 - Increased time to do field work due to sanitizing & COVID-19 protocols
 - Longer term – office re-opening capital costs & HR costs (legal)



Please wait, the meeting host will let you in soon.

AMO 2020 – Virtual deputation to Ministers
Ministry of Natural Resources and Forestry – Hon. John Yakabuski
17/08/2020

Drinking Water Source Protection Highlights - 2020

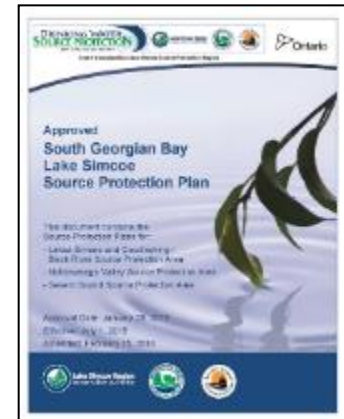
- SSEA is your Source Protection Authority (Clean Water Act 2006)
 - Support staff to meet Provincial requirements
 - Ensure Source Protection Plan & Assessment Reports stay up to date
- Risk Management Official / Risk Management Inspector for the Town
 - Work directly with local residents & businesses, as well as Town staff to mitigate risk to municipal water supplies
 - On track to complete 16 required Risk Management Plans within the Town of Midland by July 1, 2022 Provincial Deadline



Fuel Storage



Misc DNAPLs



Field Monitoring Highlights - 2020

Environmental Monitoring:

- Water Quality (Little Lake, Open Water, Streams, Groundwater)
 - Delayed due to lab closures, modified program implemented
- Climate monitoring
 - Delayed but continued with new safety protocols
 - New weather station installed at Midland STP
- Citizen Science
 - New Shore Watch and Stream Watch programs (3 New Midland Volunteers)
- Maintain Water level gauge
 - Midland Town Dock (critical to grain and cruise ship traffic)



Open Water
Sampling



Midland Weather
Station



Citizen Science

Stewardship & Invasive Species Highlights - 2020

- Supported North Simcoe Mayors in successful AMO 2020 delegation to Minister Yakabuski (MNRF) re: *The impact of extreme Georgian Bay water levels on shoreline communities*
- Planning for 2021 Tree Seedling Distribution and Planting program
- Invasive Species program
 - IS became a core program in 2020
 - Development of Severn Sound Invasive Species Strategy
 - Focus on IS factsheets and videos
 - Resources available: factsheets & videos at www.severnsound.ca



Tree Seedling Programs



Community Events



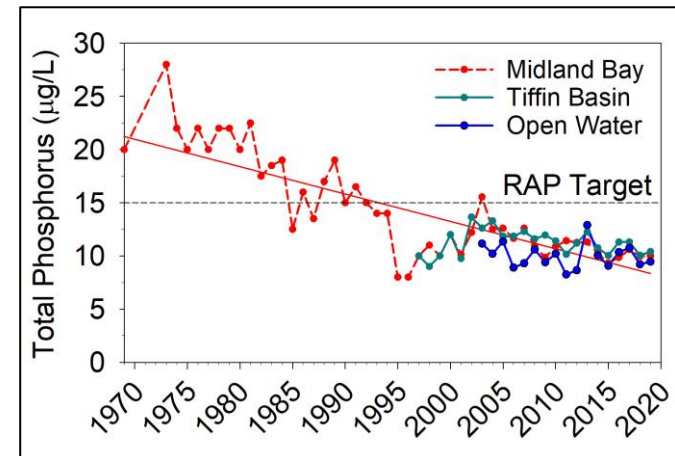
Invasive Species ID

2021 SSEA Work Plan Items

- Implementation of SSEA Strategic Plan
- Drinking Water Source Protection
 - including Risk Management Services
- Habitat Assessment, Plan Input & Review as requested by the Town
- Stewardship Projects, Tree Planting & Tree Distribution
- Environmental Monitoring
 - Climate, Water Quality (Little Lake, Open Water (including Midland Bay & Tiffin Basin), Streams, Groundwater)
 - Water level gauge - Midland Town Dock



Blue Green Algae in Little Lake



Total Phosphorus Trends in Midland Area

2021 SSEA Work Plan Items Cont'd

- Invasive Species Program
 - Identification, detection, management training
 - Severn Sound Invasive Species Strategy
 - New Zebra Mussel monitoring tool for Little Lake
- Sustainable Severn Sound special project
 - Climate Plan implementation support
 - Partners for Climate Protection (PCP) program Associate Member services on behalf of the Town
 - Bee City Canada membership support
 - Climate Resilience program development
 - Exploring watershed Natural Asset inventory and evaluation



Invasive species removal, Tiffin Pond



Pollinator planting, Little Lake Park

SSEA 2021 Request – Midland

2021 Total Budget Request: \$161,286

Operations Core Municipal Funding

- **\$125,651**

Risk Management Services

- **\$19,213**

Little Lake

Water Quality, Algae & Zebra Mussel Survey

- **\$5,267**

Tree Distribution Program

In-kind time from Town

- **\$0**

Sustainable Severn Sound project

Technical GHG data analysis, climate plan support, PCP Associate Member services, enhanced communications, building climate resilience

- **\$11,155**



Little Lake Sampling -
Zooplankton & Zebra
Mussel Larvae



Municipal Source Water
Workshop

Thank you!

Learn more at:

 @severnsoundea

 @SSEA_SSRAP

 YouTube

www.severnsound.ca

