

## PARTNERSHIP OVERVIEW

2021 2022 2023

- Staff training on invasive species and species at risk
- Public outreach and education on invasive species
- Benthic monitoring on Whitestone Lake
- Preparation of Aquatic Environment Report
- PROBLEM PESTS: FOREST INVADERS

  PRESENTED BY WESTWIND FOREST STEWARDSHIP

  Costsind
  WESTWIND FOREST STEWARDSHIP INC.

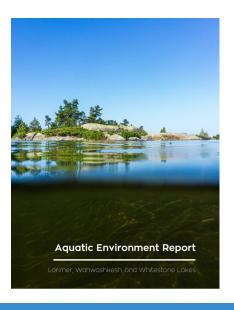
  OFFERED IN PARTNERSHIP BY

  GEORGIAN BAY
  BIOSPHERE
  MNIDOO GAMII

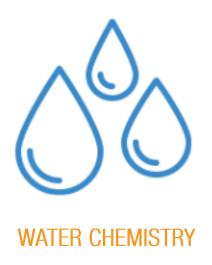
- Benthic monitoring on Lorimer, Wahwashkesh, and Whitestone Lakes
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Provide residents with a summary of water quality and fish community monitoring data for Lorimer, Wahwashkesh, and Whitestone Lakes in one report.



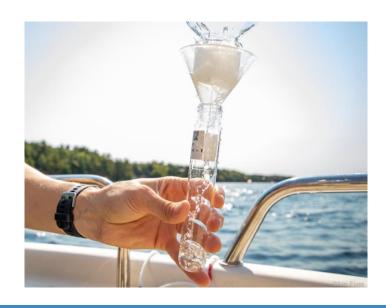




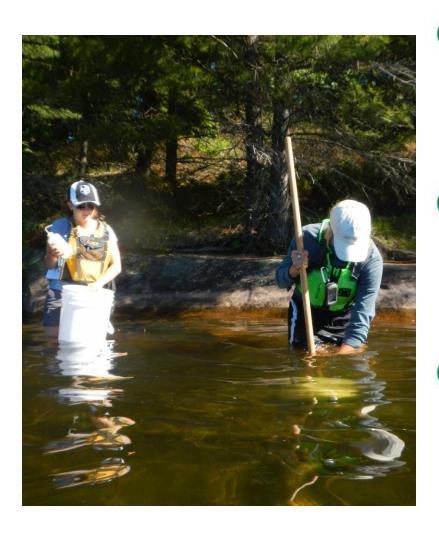
## WATER CHEMISTRY

- Lake Partner Program (LPP)
  - Total phosphorus, Secchi depth, calcium, chloride
- Lake Wahwashkesh Water Quality Management Program
  - Dissolved oxygen, temperature, pH, specific conductance, oxidation-reduction potential, Secchi depth
- Whitestone Conservation Association annual water quality monitoring
  - Temperature, conductivity, dissolved oxygen, pH





BENTHIC MONITORING



Highly pollution tolerant - most likely to be found in poor, fair, and good quality water





Semi-pollution tolerant - most likely to be found in fair and good quality water





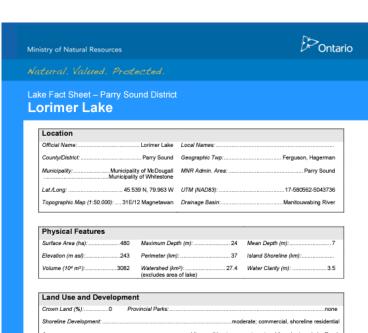
Pollution sensitive - most likely to be found in good quality water







## FISH COMMUNITIES



Access:	public; small boat access at west end from Lorimer Lake Road; Municipality of Whitestone may be developing new access at east end
Water Level Management:	regulated; level is controlled by dam at outlet of Grey Owl Lake; dam is owned by Bracebridge Generation Ltd; operated in accordance with Seguin River Simplified Water Management Plan
Fish Species	
Major Fish Species:	lake trout (S), northern pike (I 1972), smallmouth bass (I 1942)

Parry Sound District office: (705) 746-4201

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#### MNRF

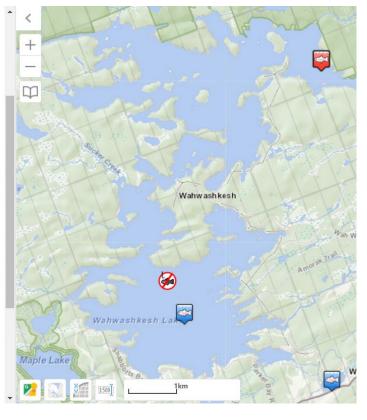
Species observed or confirmed by MNRF. This list may contain historical records

Species	Last Observation Date
Black Crappie	-
Brown Bullhead	-
Burbot	~
Cisco	920
Lake Trout	-
Lake Whitefish	151
Largemouth Bass	-
Northern Pike	121
Pumpkinseed	-
Rainbow Smelt	151
Rock Bass	-
Sauger	=
Smallmouth Bass	-
Walleye	121
White Sucker	-
Yellow Perch	(8)

#### Public

Species reported by the public (unconfirmed)

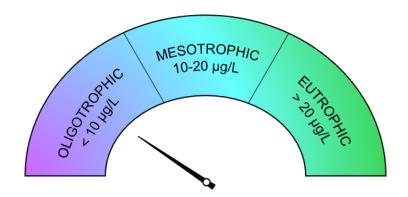
Report a Species





# RESULTS WATER CHEMISTRY

- Lorimer Lake
  - Trophic status: oligotrophic
  - TP trend: decreasing
  - Continue LPP monitoring
- Wahwashkesh Lake
  - Trophic status: oligotrophic
  - TP trend: increasing for three sites with sufficient data, no trend for one site
  - Continue LPP monitoring, continue summarizing results of WQMP for WWKCA members
- Whitestone Lake
  - Trophic status: oligotrophic
  - Additional data needed to comment on average TP and/or TP trend
  - Continue LPP monitoring, work on clearly defining objectives of the WCA water quality monitoring

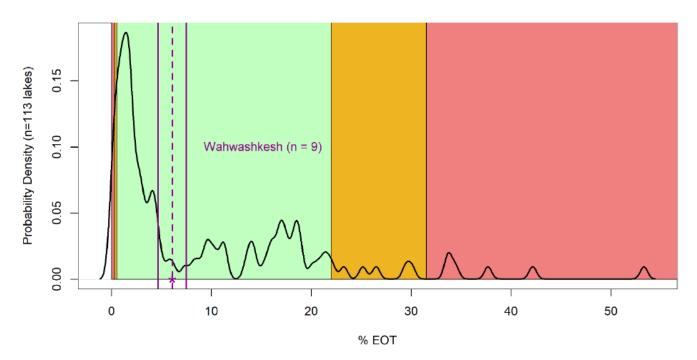


# RESULTS BENTHIC MONITORING

- Whitestone Lake and Wahwashkesh Lake benthic communities considered "typical"
- Additional years of data needed for Lorimer Lake before analysis can begin

Recommendation: continue annual monitoring to assess trends over time





## RESULTS FISH COMMUNITIES

- Lorimer Lake
  - Continues to be managed as a put-grow-take lake (last stocked in 2022 with 1,200 yearlings)
  - Last index netting completed in 2000
- Wahwashkesh Lake
  - Spring Littoral Index Netting (SLIN) conducted in 2004 to monitor relative abundance of lake trout
  - Synoptic Trapnet Survey (STNS) conducted in 2002 focusing on walleye and smallmouth bass
- Whitestone Lake
  - Broad-scale Monitoring (BsM) conducted in 2021

### Proportion of fish caught in large mesh nets

