

# Protecting Drinking Water It's Everyone's Business

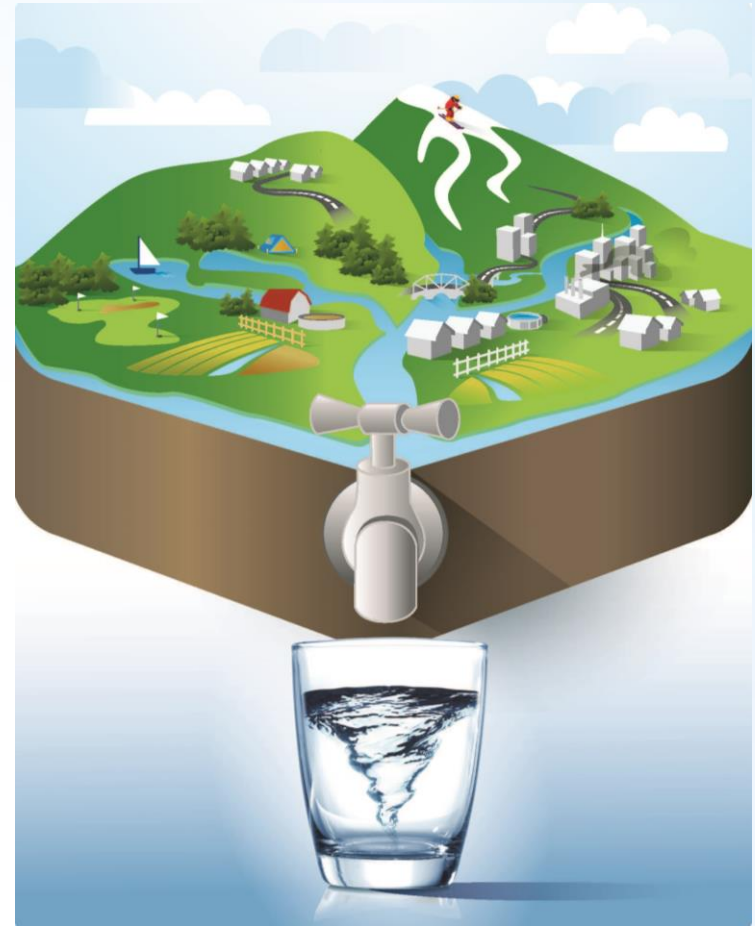


**Let's act now. Let's act together.**

Michelle Morin-Doyle  
Québec Metropolitan Community's member

# Challenge for the Common Good

- Protecting water sources
  - Public health
  - Environnemental protection
  - Financial consideration



# Province of Québec

Over 200 municipalities are currently under a boil-water or drinking water avoidance advisory.



# Province of Québec

- Myth: Water is inexhaustible!
- Province of Quebec ranks among the largest consumers of drinking water in the world

Average of **593 litres** per day per person

Ontario: **407 litres** per day per person

# Health Check of Water Sources





# Lake Saint-Charles

- Water reservoir for over 300,000 Québec City citizens
- The lake has aged rapidly



# Rise of Lake's Salinity Due to Road Salt

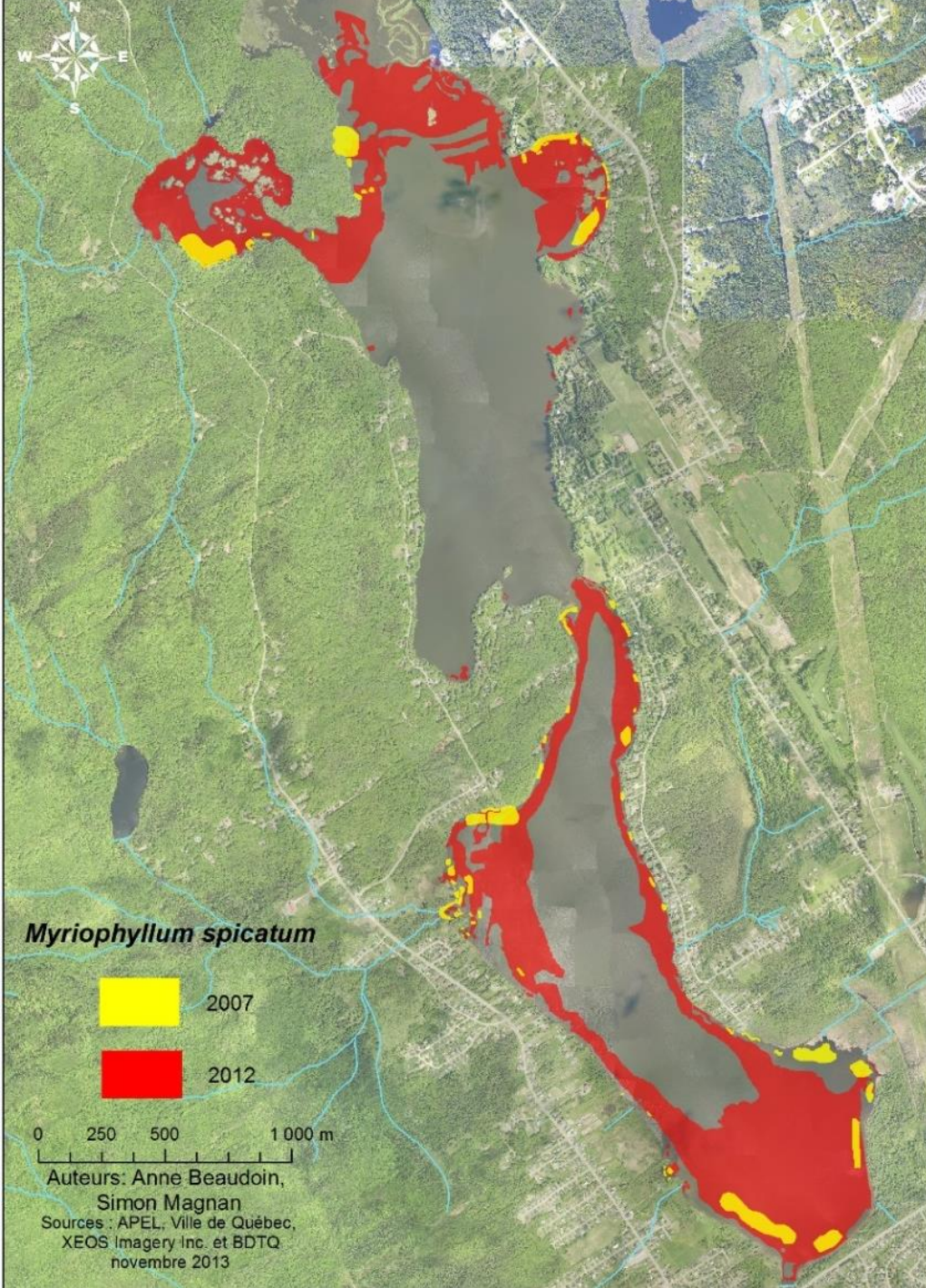




# Rise of Aquatic Plant Communities

From 2007 to 2012:

X 8





# Cyanobacteria Outbreaks

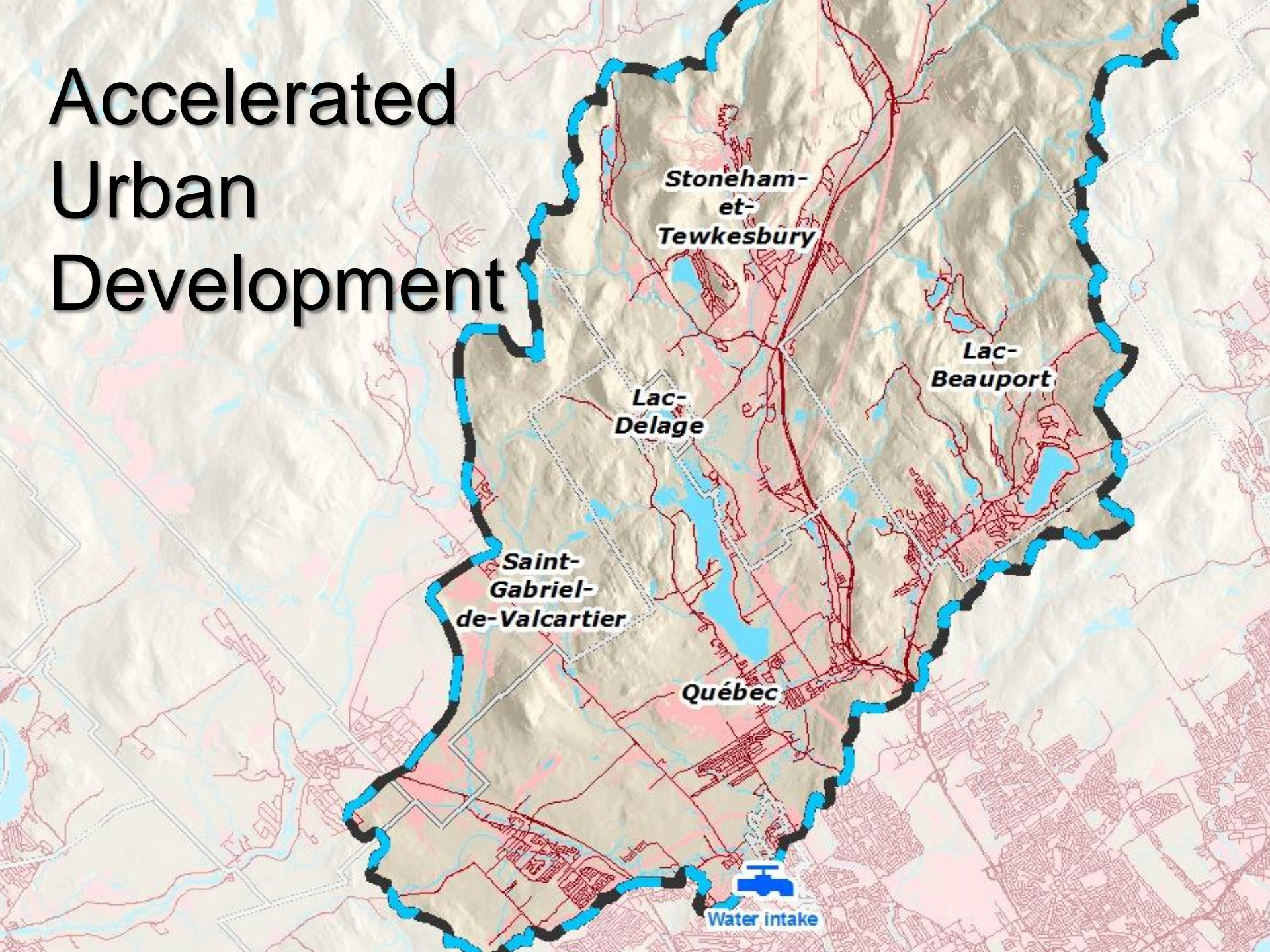


# Elected Official's Challenges

- Provide sufficient amounts of quality drinking water
- Individual and collective issue
- The more contaminated the water, the more costly it is to treat



# Accelerated Urban Development





# Wastewater Treatment Plant at Lac-Delage





# Scientific Knowledge

- Since 2009:
  - 42,000 samples from 8 watercourses and lakes
- We must change our approach to:
  - Urban development
  - Wastewater management
  - Road salt management
  - Responsible consumption



# Challenging Land Use Planning









# 2016 By-Law

- Five vulnerability zones based on biophysical characteristics
- No construction on slopes of more than 15%
- Building with septic system prohibited
- Vegetation cover from 50% to 70%
- Total protection within a 500-metre radius of the lake



# Courageous Decisions for the Common Good

- Preventive role
- Immediate impact
- Social acceptability

# Courageous Decisions for the Common Good

- General population's support
- Based on recognized scientific data
- By-law limits certain types of development
- Mobilization of municipal stakeholders



# Comprehensive Approach to Protect Water Sources

- Perfect our scientific knowledge
- Mobilize all stakeholders
- Inform and raise awareness















# Why put off until tomorrow what must be done today?



Let's act now!  
Let's act together!