

Advanced Water Technologies

www.awtech.ca



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Clean, Safe water
1996 2916 M966

The leader in lake and pond restoration technology



Problem pond



Problem solved

Advanced Water Technologies



Clean, Safe water



THE CITY OF
CALGARY

NRC · CNRC



CITY OF
Lethbridge


Lethbridge
College

THE CITY OF
Edmonton



What We Do

AWT provides environmentally friendly solutions for



Water Restoration

- Storm water ponds
- Golf courses
- Lakes
- Ponds



Agricultural Applications

- Lagoons
- Hog pits
- Cattle feedlots
- Poultry operations



Sludge Reduction

- Lakes and ponds
- Dugouts
- Fish farming
- Lakes and ponds

Live Liquid Micro-Organisms (LLMO)

- **Complaints:**

- Algae, Odour, Sludge

- **Advantages:**

- Competes for nutrients

- Cycling of nutrients in stressed systems

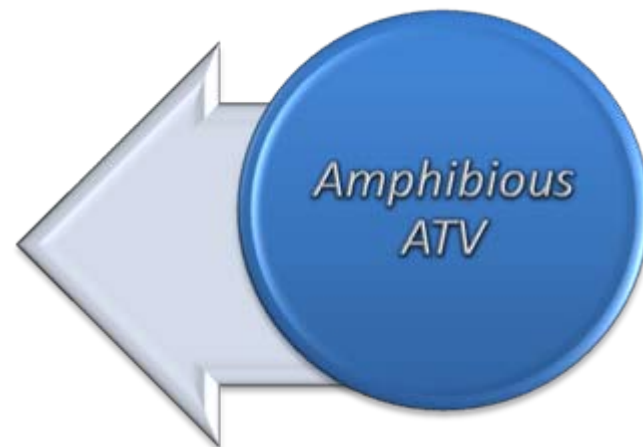
- Assists organic matter decomposition

- **Awareness:**

- Each body of water is unique

- Not a fix-all solution

- Not instantaneous



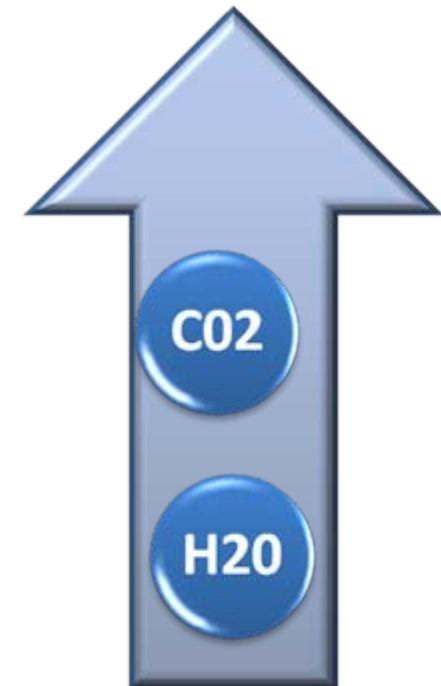
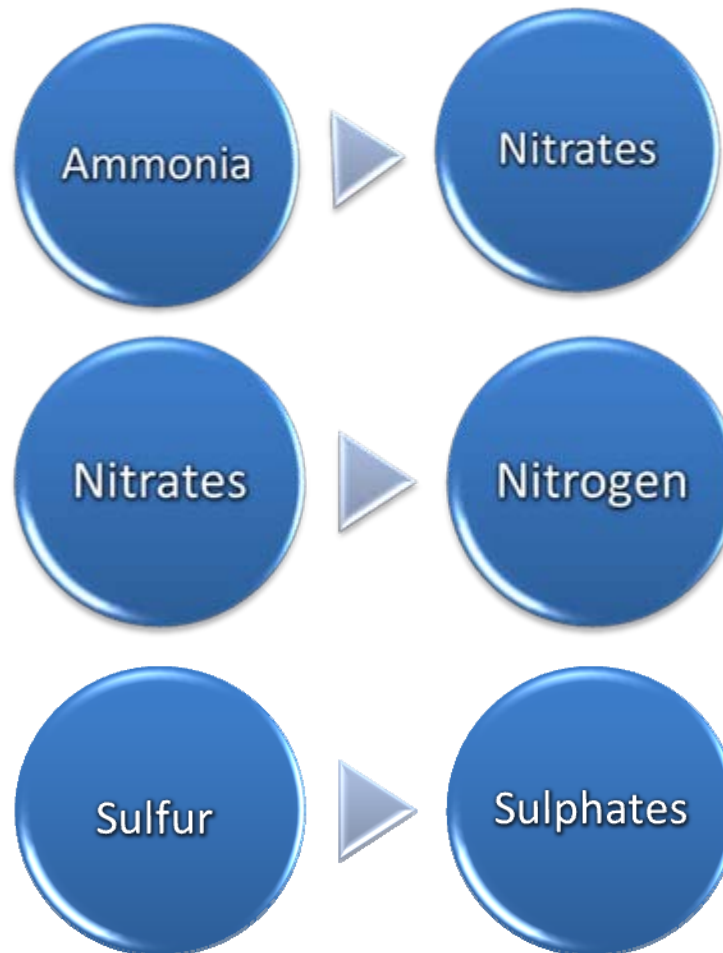
LLMO...



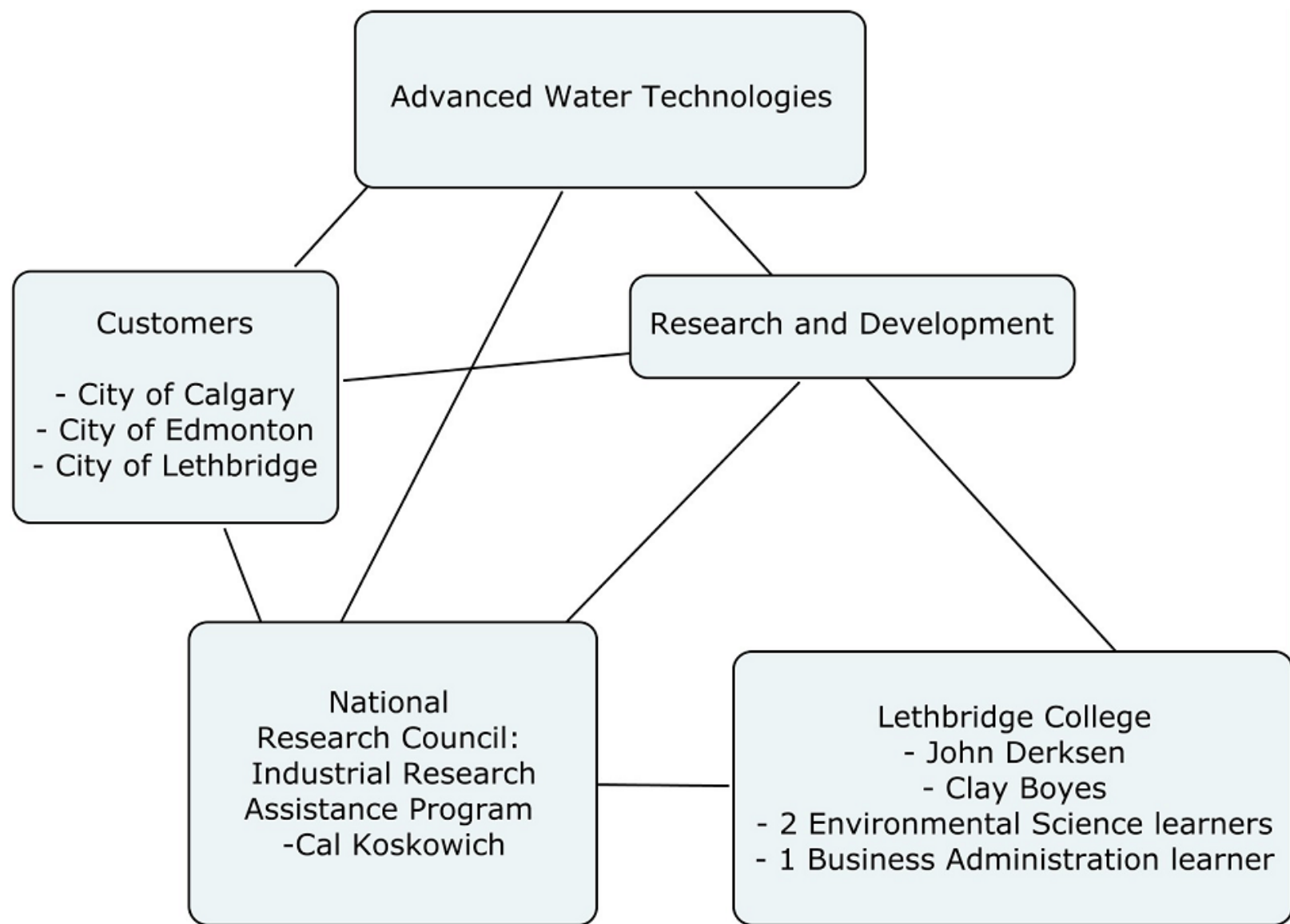
- Super concentrated naturally occurring bacteria (*Nitrosomonas* spp. and *Nitrobactor* spp.)
- Utilize nutrients in the water
- Dentrification occurs under anaerobic conditions (NO_3 to NO_2 , to N_2)
- Nitrification occurs under aerobic conditions (NH_3 to NO_2 to NO_3)
- The cycling of nutrients and the rate of organic decomposition regained

Biology

The Process



Applied Research



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