

Case Study: Membrane Revolutions in Lagoon Wastewater Treatment

An innovative technology with the potential to dramatically improve lagoon performance and create re-use quality water.

THE PRESSURES

- Aging lagoon infrastructure is a common occurrence in rural municipalities and First Nations
- Regulatory compliance is difficult to attain with current lagoon designs
- Populations in remote communities need cost-effective solutions to improve lagoon performance

THE SOLUTION

Swirltex has designed **modular systems** that can treat lagoon wastewater using membrane technology, facilitating **water re-use**

- Membrane filtration
- Consistently removes solids
- Low maintenance system, low operational costs
- On-site treatment solution
- Increased lagoon capacity without large upgrades



THE TECHNOLOGY

Swirltex has been operating at the Ponoka lagoon in Alberta for over a year, treating wastewater and helping the community increase its lagoon capacity, while providing water quality fit for re-use in local industry.

Flow: 500 m³/day

TSS < 5mg/L

BOD < 5mg/L

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