

# Economical upgrade of existing lagoons to meet standards of wastewater discharges especially during high summer population fluxes

## City of Noyan | Case Study

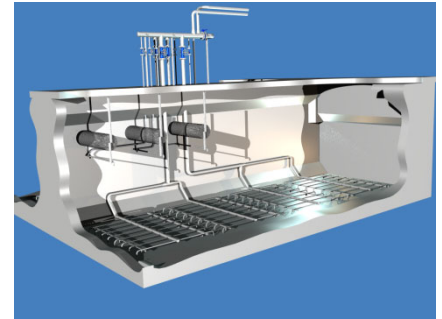
### The Client

Located along the Richelieu River in Monteregie (Quebec), the City of Noyan has a permanent population of 1375 inhabitants. However, during Summer, the population increases to about 3,000 inhabitants, putting enormous pressure on the lagoons which leads to the City not meeting standards of wastewater discharges.



### The Client's Needs

Given the high variability of its demographics, the municipality wanted to not only meet the standards for BOD and TSS, but to have a treatment system of wastewater with great flexibility. The need is to have a treatment capacity of 180 m<sup>3</sup>/day in normal times and to be able to double this capacity in summer. The discharge standards are:  
BOD = 25mg/L and TSS = 25mg/L.



### The Solution

The AnoxKaldnes™ MBBR process is an innovative system of biological treatment that does not require sludge recirculation. Veolia Water Technologies Canada proposed the installation of the MBBR reactor system at the heart of the wastewater treatment plant of the city of Noyan.

In providing a turnkey process system, the City of Noyan saved thousand of dollars compared to conventional installations.

Veolia's supply to the City of Noyan:

- The sewage screening
- The biological treatment with MBBR process
- The secondary clarification
- The equalization basins
- The wastewater disinfection (UV lamps)
- A complete solution for the installation of equipment inside one single mechanical building. The start-up took place in September 2010 and the building opened in December 2010. Treatment capacities are equal or better than expected.

**Veolia Water Technologies Canada**  
2000 Argentinia RD, Plaza IV Suite 430,  
Mississauga, ON L5V1W1  
tel.: 905 286 4846 • salescanada@veolia.com  
[www.veoliawatertech.com](http://www.veoliawatertech.com)

MBBR Reactor



Secondary Clarifier



Mechanical Building

