



PROJECT

Cartwright Springs Brewery, Pakenham, Ontario, Canada

FACTS

Cartwright Springs Brewery takes its name – and the main ingredient for its craft beers – from a natural spring located just a short walk away.

Before the brewery could open its doors in 2015, the owners needed to find an on-site wastewater treatment solution that would protect their precious source of water. Their business and their reputations depended on it.

CHALLENGES

Cartwright Springs Brewery needed a treatment system that could handle up to 10,000 L of wastewater per week and cope with flow fluctuations between peak business hours.

The main challenge, however, was the wastewater itself. It would be a combination of all streams, including:

- high strength and low pH from yeast and mash dumps
- low strength and high pH from wash water
- high NH_4 from frequent toilet flushing

SOLUTION

With technologies and support from Premier Tech, Fieldstone Engineering, the firm in charge of the project, designed a treatment train tailored to the unique needs of the beer-making industry. The train, which includes a Rewatec moving bed biofilm reactor (MBBR), was designed as follows:

1. septic tank for primary treatment
2. equalization tank to provide a metered dose to the MBBR
3. two-stage MBBR for secondary treatment
4. clarification tank to separate solids from liquids in the sludge and scum resulting from the treatment process
5. gravity-fed leaching field for final wastewater purification

RESULTS

Cartwright Springs Brewery's wastewater treatment system was operational as of July 2015. Influent concentrations of BOD range from 1,500 to 2,500 mg/L and laboratory tests of treated effluent show a steady removal rate of 99%.

REWATEC™

Rewatec MBBR is the clear-cut treatment solution for projects with fluctuations in flow and strength. This modular system is designed to reduce high loads of BOD₅ and NH₄ and is ideal for:

- breweries and wineries
- fast food chains
- truck stops, hotels, and campgrounds
- convenience stores with food preparation
- projects where space is limited



CONTACT US

Ask our experts about this and other wastewater treatment solutions available from Premier Tech. Whether your project is big or small, we have technologies to make a difference.



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