



Case Study

Newterra MBR System: Efficient, Affordable, and Environmentally Responsible

The year-round RV and mobile home park had been using a subsurface treatment system, but it's no longer an option due to changes in regulatory requirements.

Market Served: Recreational Mobile Home Park
Application: Domestic Wastewater Treatment
Location: Consecon, Ontario, Canada
Challenge: Fouled Septic System Replacement
Solution/Service: MBR Sewage Treatment Plant

Summary

Bay Meadows is a year-round RV and mobile home park located along the shores of Lake Ontario. The facility had been reliant on subsurface treatment, however current regulatory requirements eliminated the option of continuing with that approach. In addition to high bedrock, the lack of available area due to design flow values meant a more sophisticated sewage treatment solution would be necessary.

The Client

Bay Meadows is a year-round RV and mobile home park located along the shores of Lake Ontario, between Trenton and Picton in Prince Edward County.

The Challenge

A key challenge facing the Bay Meadows is its adjacency to Pleasant Bay – a lagoon that's separated from Lake Ontario by a narrow strip of land. That physical barrier prevents the waters of Pleasant Bay and Lake Ontario from mixing on a regular basis. Without the dilution effect of the lake, Pleasant Bay has little capacity to assimilate the park's discharge. That reality was confirmed by a Surface Water Assessment.

The Solution

After evaluating several treatment solutions, Newterra was selected to supply a modular membrane bioreactor (MBR) system due to their ability to meet the tough environmental

standards and tight deadlines, based on the company's proposal and reputation for meeting tough environmental standards and tight deadlines. For this project, both would be required. The initial order for the turnkey MBR solution was placed in mid-August, and within 20 weeks, Newterra had engineered, built, installed and commissioned a modular system treating 21,925 GPD (83 m³/day) to the stringent specifications required.

Implementing a traditional treatment process would have required four times the physical footprint of the system. Instead, the trailer park was able to minimize the amount of valuable property needed for a solution. The modular Newterra packaged plant is integrated into two ISO high cube shipping containers and requires only 16' x 40' of space.

Going forward, land where the old septic bed was located will become additional RV sites, generating additional revenue for the park.

What's Your Unique Water Question?

Contact us at [+1.951.448.6789](tel:+19514486789) to solve your most challenging water issue.

See it Live!

Scan the QR Codes or click to view Newterra Videos.



Scan/Click here to learn more about Bay Meadows!



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