

Puraflo®

Peat Fiber Biofilter

Quick Facts

Application:
Commercial

Product:
Platinum with Puraflo®
Peat Fiber Biofilter

Installer:
Dufour Enterprise Ltd.

Distributor:
EMCO Waterworks

Location:
Quesnel Lake, Manitoba

High-Quality Treatment Solution Designed to Meet Environmentally Sensitive Standards

Situation

Quesnel Lake Caribou Lodge is located in an area of Manitoba popular for its pristine surroundings. But as a result of the more stringent environmental standards of Manitoba Conservation, the lodge owners needed to upgrade their present wastewater system to meet the newer standards. With no access to a municipal sewer system and no power source available, the new treatment system required high-efficiency with very low power consumption.

Solution

Installation was done in two stages, the first of which employed the existing ejector system. This was accomplished using two Anua Platinum 24 submerged aerated treatment units, along with a 2000 gallon pump tank. Employing this method allowed the use of an ejector for the first season and, by substantially reducing the effluent strength, a temporary license was awarded for that season.

The second phase of the installation involved erecting a raised mantle portion of the area bed along with 16 Puraflo modules. Installing the two Platinum treatment units substantially reduced the size and quantity of materials required for construction. A sequencing valve was installed ensuring the system was only pumping to four Puraflo units at a time, reducing the cost and complexity of the system.



Results

The Platinum and Puraflo combination replaces the need for a costly alternative treatment system and produces the high-quality effluent needed for environmentally-sensitive areas. After installation, Puraflo created a self-sustaining ecosystem via its peat media—consisting of a diverse population of microorganisms. During periods of reduced wastewater flow, the Puraflo microbial population naturally decreases and continuously adjusts to fluctuating flow levels.

Puraflo can be used in residential, small neighborhood and commercial applications.



After installation of the two Platins

