

# Tsurumi and Enereau Enhance Wastewater Operations for Winery

*A destination winery on the shores of Lake Erie turned to Tsurumi and Enereau to solve a growing challenge with wastewater management.*



*Sprucewood Shores Winery, Ontario, Canada. (Source: <https://epicwineries.com/wineries/>)*

## ***For many years, Sprucewood Shores Winery, an award-winning estate winery, faced obstacles when handling their wastewater.***

Prior to consulting Enereau, a wastewater treatment system supplier and Tsurumi Pump distributor, the winery was discharging its wastewater through an on-site holding tank. The holding tank required frequent hauling, resulting in increased operational costs and significant time spent coordinating. As regulations shifted, this approach became costly and unsustainable, prompting the winery to search for a long-term solution. The winery set out in search for a solution that allowed the wastewater to be safely treated on site, while discharging it into their existing septic system.

To help Sprucewood Shores achieve this goal, Enereau designed a Membrane Bioreactor (MBR) system, custom to fit the winery's needs. By converting the winery's holding tank into an equalization pretreatment system, the

wastewater could be pumped into an MBR. The MBR was housed above ground in a 14-by-16-foot shed, taking up minimal space on the property. The system features Tsurumi's VANCS™ submersible resin pumps



*(L) Holding tank required frequent hauling—costly and inefficient.  
(R) Modern MBR System Installed.*



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***With the MBR in place, Sprucewood Shores now has a reliable, environmentally responsible wastewater system that supports their operations.***



*Compact & Efficient MBR System - On-site treatment removes 99% of BOD for safe discharge.*



and TRN submersible jet aspirating aerators. It operates by pretreating the wastewater, removing 98-99% of Biochemical Oxygen Demand (BOD). This dramatically reduces the strength of the wastewater, ensuring compliance with regulations while limiting environmental impact. The treated water is then released into an existing septic field for final purification. Afterwards, it can safely be discharged to the subsurface.

Without proper treatment, wineries and breweries risk overwhelming septic fields, leading to costly failures and environmental damage. Wastewater that contains high levels of BOD and Total Suspended Solids (TSS) can quickly blind off natural ground percolation if not managed correctly.

With the MBR in place, Sprucewood Shores now has a reliable, environmentally responsible wastewater system that supports their operations. The project allows the winery to efficiently manage its wastewater while continuing to serve guests.

### CONTACT

**TSURUMI (AMERICA), INC.**  
1625 Fullerton Ct  
Glendale Heights, IL 60139

Marissa Nge  
Marketing Generalist  
marissan@tsurumiamerica.com  
(630) 547-2298

Yumiko T. Lindgren  
Marketing Manager  
yumikot@tsurumiamerica.com  
(630) 547-2245

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### ABOUT TSURUMI

Tsurumi (America), Inc., a division of Tsurumi Manufacturing, was founded in 1979. Headquartered in Glendale Heights, Illinois, Tsurumi (America), Inc. has bases in Quebec, Canada; El Paso, Texas; and Salt Lake City. Globally, Tsurumi is active in 45 countries and has been an innovator in the pump industry since 1924. Tsurumi (America) is a provider of leading pumping technology in construction, civil engineering, mining, industrial wastewater, municipal wastewater, sewage treatment, flood control and scenery creation fields. Tsurumi products are backed by independent, third-party verification. Beyond leading pump technology, Tsurumi (America) is recognized for its robust distribution network and one of the largest on-hand inventories in North America.