

UV Pure® Case Study	
Application:	Transportation Project
Solution:	Upstream® System for Potable water
Location:	Niagara, Ontario



Pure, safe water.  
Always.

### UV Pure purifying water for shipping on the Great Lakes

One of the more common and popular methods to purify drinking water on Great Lakes' ships used to be adding bleach to the potable water tank – how much you ask? Oh, about a coffee cup or two full should do it – and that's Javex, remember, not java!

That was before Steve Langendoen, President, Culligan Niagara and his team of service and application experts got involved. "We saw an opportunity to really make a difference by serving an important client in a new way.

"It started some years ago in Nanticoke on Lake Erie. While on a service call I asked a ship supervisor how they kept their potable water safe and clean onboard their vessels," Langendoen recalls. "He told me they would bring on water either from the port where the ship docked or one of the various locations in the lakes where water can be drawn. If they were not sure of the water's quality, they would manually add a cup of bleach to the potable water tanks. I suggested to them that there was a better and safer way and began to explore how we could best serve this business segment."

The problem of providing potable water simply and cost effectively has long been a challenge in the Marine industry. For many years there was no consistent standardized method or procedure of water treatment to ensure the safety of the crews. Bottled water while it seems like an option really is not. Logistics, storage issues, running out of water, cleanliness of the bottles, sanitizing the coolers and the ongoing high cost associated remain issues.

During discussions with marine management, Langendoen developed various treatment options to meet the needs on board the ships. "We started by recommending the implementation of a consistent minimum water treatment standard for individual vessels or fleets, and more specifically, the application of an Ultra Violet System as part of a system to ensure the safety of a vessel's potable water supply." To that end the consistent positive results have proven that the application of the Upstream® Ultra Violet light by UV Pure® was and remains the right choice.

UV Pure® is, in Langendoen's opinion, the cutting edge manufacturer of Ultra Violet light and associated technology. "This product is so different in its engineering and design, that unlike competitive models, it allows us to treat water with varying amounts of hardness and iron; it also can be used effectively on water of varying clarity, both critical this type of application. UV Pure® technology, coupled with our years of experience aboard many vessels allows us to confidently recommend UV Pure® products."

Subsequent evolutions of Culligan Niagara's design now include a post-chlorination, meter controlled, chemical dosing system. And more recently Culligan Niagara has added the installation of bottle free water coolers with Point of Use filters in the place of existing water coolers and bottled water.

NEW – Culligan Niagara is now also upgrading wastewater UV disinfection systems with powerful Hallett® UV systems together with USB data loggers to upload information right to onboard computers. Reliability, secure, easily transferred and stored regulatory data. With UV Pure®'s technology, Culligan can assist ships' managers in their efforts to be in compliance for waste water treatment, something that all ship company's struggle with.

Culligan Niagara Marine together with UV Pure® is provides our customers a unique partnership that includes consulting and system design, sales, and critical service of your system. Culligan Niagara and UV Pure® is the first and the last place you have to go to and we have proven ourselves for over 25 years aboard many of your vessels with various types of water treatment. Visit <http://bit.ly/MNNte2> for further information.

