



## Ken's Foods' Upgraded Wastewater Treatment System Achieves Astounding Results

(Fredericton, NB – February 13, 2009) - Ken's Foods selected ADI technology to upgrade its existing wastewater treatment plant at its Marlborough, MA, production facility. The ADI Anaerobic Membrane Bioreactor (AnMBR) process was chosen for its ability to **increase the capacity** of the existing anaerobic system by 60 percent, while **occupying little additional space**.

In addition to the increased capacity, the AnMBR produces a **significantly higher effluent quality, allowing the effluent to discharge to the municipal sewer**.

The Ken's Foods' system, the **first North American AnMBR**, has been operational since July 2008 showing consistent, reliable results over an extended period. It treats wastewater from the manufacture of salad dressings and barbeque sauces.

This wastewater is characterized by high concentrations of COD; degradable solids; and fat, oil and grease (FOG). For the first six months of operation, the COD removal has been an astounding 99.4 percent. During this time, the average effluent has been virtually free of suspended solids. TSS from the AnMBR was negligible (consistently less than 1 mg/l). BOD removals from the process are better than 99 percent (99.9 percent BOD removal in the anaerobic system).

The membranes have not required cleaning since commissioning, (over seven months), and the trans-membrane pressure, an indication of the fouling of the membranes, has shown no increase since start-up. The system has proven to be very simple to operate with overall performance exceeding expectations.

The technology used at Ken's Foods is **applicable for other high-strength industrial wastewaters**. The AnMBR system can be used as a one-step approach for high-strength industrial wastewater treatment to meet municipal sewer discharge limits, eliminating the need for on-site aerobic polishing, simplifying the system, and significantly reducing overall system sludge production and aeration energy use.

With more than thirty years of hands-on anaerobic and aerobic treatment experience and nearly 200 installations in 30 countries, ADI has a successful track record for challenging industrial wastewater treatment and energy recovery projects. ADI Systems and its partners around the world provide systems on a turnkey, design-build basis or as a technology package.

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