AEROSTRIP® fine bubble diffusers were installed in the Simi Valley, CA facility in 2004 as part of an upgrade to add nitrification and denitrification.

Shortly after installation, both field (in wastewater) and clean water oxygen transfer testing were performed by a well-known independent authority. During the test, the plant was treating approximately 9 MGD of domestic wastewater at approximately a 9 day MCRT.

The results of the testing indicated high oxygen transfer efficiencies at the operating flux rates. Because AEROSTRIP® diffusers operate at flux rates down to 0.3 scfm/ft$^2$, clean water oxygen transfer rates of 3%/ft SWD or more are well-documented. Alpha values of AEROSTRIP® diffusers are equal to or greater than other fine bubble diffusers.

Several AEROSTRIP® diffusers were removed from the Gratz, Austria wastewater treatment plant and tested after 8 years of continuous service. At flux rates of less than 3 scfm/ft$^2$ (representing our typical design range), virtually no degradation of SOTE was observed. Pressure drop across the membrane was also measured. Results ranged from 0.2-0.6 psig, far less than design values, over the range of flux rates tested.