ECO Bionics® BIO-Amp™ Reduces Surcharges in Food Processing Plant

Problem
A Texas food processing plant producing sauces, dressings, and ready-to-drink beverages was incurring significant costs in wastewater surcharges due to the high soluble BOD concentrations in its wastewater. The plant was paying in excess of $600,000 in surcharges annually. The facility needed a more efficient onsite wastewater treatment program to reduce wastewater BOD concentrations.

Solution
The plant installed eight BIO-Amps feeding directly into the pH neutralization tank and an adjacent lift station. The BIO-Amp is an automated system for economically growing and applying high levels of bacteria that will degrade the carbohydrates, grease, oils, and other organic matter present in wastewater streams. The eight BIO-Amps combined pumped 248 trillion bacteria into the wastewater treatment system every day.

By cutting soluble BOD levels in half, the BIO-Amp system saved the plant an average of $175,000 in annual surcharges.

Mean BOD levels were reduced by 42% and variability declined by 65%