

# SPECTRUM HELPS DFW AIRPORT REDUCE THE NEED FOR OUTSOURCED WASTEWATER TREATMENT



## THE PROBLEM

**Dallas Fort Worth International Airport (DFW) contacted Spectrum for a more efficient wastewater treatment solution.** Every winter, DFW uses glycol to de-ice their planes. After de-icing, the water/glycol mixture is collected and sent to be stored at DFW's wastewater storage area. The glycol/water mixture is then diluted and sent to a larger facility for treatment. However, the larger treatment facility limits how much glycol water it can receive, leaving DFW with excess glycol water in its own storage tanks.

## OUR SOLUTION

**The Spectrum wastewater experts investigated the effectiveness of biological treatment for the removal of glycol from the wastewater generated at the airport.**

Using Spectrum's Mobile Aeration Tank seeded with a culture fitted to handle industrial waste, the reactor was monitored for one week to evaluate its performance in terms of:

- Glycol removal efficiency
- COD removal
- Microbial growth

## RESULT

**Spectrum determined the biological treatment reactor was able to effectively destroy glycol from the wastewater,** achieving removal rates of up to 61%. The reactor also demonstrated good COD removal efficiency, with reductions of up to 44%.

The existing infrastructure at DFW can be utilized to create a permanent biological treatment area to help the airport streamline its wastewater disposal process and save on disposal costs.

