

Peracetic Acid Monitoring Program for Poultry Processing Facility Protects Aerobic Basin

BACKGROUND

A poultry plant spent over \$100,000 per week for peracetic acid abatement and bioaugmentation. The customer expressed interest in measuring sanitizer residuals to control sulfite feed and better understand the contamination sources.

SOLUTION

ChemTreat's Research and Development group proposed installing our patent-pending Eclipse™ PAA monitoring system at the facility. The system was installed at the overflow weirs of one of two dissolved air flotation (DAF) devices before the biological wastewater treatment.

RESULTS

ChemTreat observed consistent patterns in the customer data, including a significant spike in PAA levels each morning. Believing this to be the result of chemical used during the third cleaning shift, ChemTreat changed the neutralization feed to compensate for the high levels.

The Eclipse™ PAA monitoring system allowed constant monitoring of plant discharge and gave the poultry plant operators control of treatment neutralization.



Figure 1 - Estimated PAA Level (March 1-2, 2018)

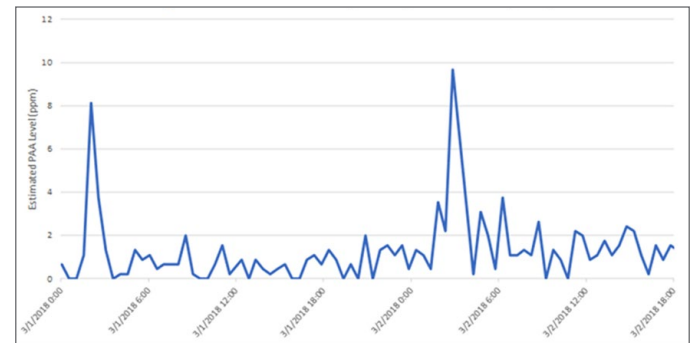


Figure 2 - Estimated PAA Level Comparison over four days (June 2017)

