

Project Profile

Virginia Turkey Processor

edge™ Provides a Two Year ROI Through Chemical Savings

APPLICATION

One Edge-800 treats 1100 GPM Dissolved Air Floatation system.

THE PROCESS

Dissolved air flotation (DAF) is a water treatment process that clarifies wastewater by the removal of suspended matter such as oil, grease or solids. The removal is achieved by dissolving air in the water or wastewater under pressure and then releasing the air at atmospheric pressure in a flotation tank or basin. The released air forms tiny bubbles which adhere to the suspended matter causing the suspended matter to float to the surface of the water where it may then be removed by a skimming device.

THE PROBLEM

Polymers, and coagulant are used in significant quantities to improve effluent quality and thicken sludge. Chemical costs and sludge hauling costs are very high for poultry processing operations.

CUSTOMER PROFILE

A large Turkey Processing Cooperative in Virginia.

TREATMENT PROCESS

Wastewater from the equalization tank goes to an 8" feed DAF on a 3 polymer organic program. Sludge is sold for rendering. The effluent goes to twin anaerobic lagoons and then is aerated before going through a secondary DAF on Poly Aluminum Chloride and Polymers. The final effluent goes through sand filtration prior to surface discharge.

RESULTS

The primary DAF was treated first and a modest savings in chemical was documented. A second Edge system was then installed on the secondary DAF. A two year ROI was calculated on total chemical savings for primary and secondary DAF's. Sludge hauling savings from secondary was also considered in the savings.

SMART INVESTMENT

Even though this company had taken every conventional measure to reduce wastewater treatment costs, Edge technology was able to save even more money. Edge only uses 100 watts of power and has a full 5 year warranty.



Edge-800 Installed



Edge 1200 Installed



Good Suspended Solids Removal



Excellent Sludge Quality



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GRISWOLD WATER SYSTEMS