

Project Profile

Another Springdale AR Success

edge™ Allows Savings of \$1,500/Week
and Improves Effluent Quality

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

One of the worlds largest processors of chicken, beef and pork.

TREATMENT PROCESS

Wastewater from the equalization tank goes to the primary DAF which uses a 3 polymer organic chemical program. Following primary clarification the water goes to an aeration tank and then finally to a secondary DAF for polishing with Ferric Chloride and two polymers.

RESULTS

Within three days of commissioning the Edge coagulant was significantly reduced. Color removal improved and sludge quality remained good. At the end of the 90 day trial it was decided to purchase the Edge based on:

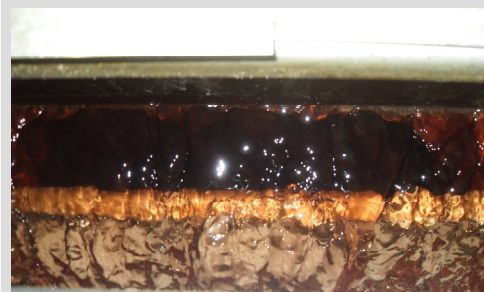
- \$1,500/wk average chemical saving.
- Improved color removal.
- Improved Phosphorus removal
- Confirmation by Jar Testing

SMART INVESTMENT

Based on exceptional performance and a rapid ROI a second Edge unit will be installed on the secondary DAF to save even more chemicals and reduce sludge disposal cost.



Edge-800 Installed



Effluent Turbidity 8 NTU



Excellent Sludge Quality



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GRISWOLD WATER SYSTEMS