



INDUSTRIAL REPORT

# Improved Chemistry can Slash Sludge and Drop Total Cost of Operations.

## Customer Goals

A large poultry processor in southeastern USA generated 23-27 loads of sludge per week, resulting in approximately \$1.3 Million in disposal costs annually. While the plant met discharge permit levels, it was running over capacity on load and flow. Our team was invited by a corporate Environmental Manager to help develop a sustainable treatment program that outperformed incumbent chemistry while producing less sludge.

## Plan & Process

Equipment : Primary DAF, EQ Tank

Flow Rate : 1.5 MGD

By replacing metal-based PAC with an organic biopolymer in the primary DAF, sludge production was significantly reduced while improving TSS removal. The higher removal efficiency lowered the solids load to the equalization tank and secondary DAF, resulting in reduced TSS carryover. This, in turn, decreased the ferric dosage required in the secondary DAF, delivering both chemical and sludge reduction benefits.

## Tidal Clear Solution vs. Incumbent

<b>Our Chemistry</b>	<b>50 ppm</b>
Coagulant : TideForce® 316	50 ppm
<b>Incumbent Chemistry</b>	<b>150 ppm</b>
Polyaluminum Chloride	150 ppm

## Expected Results vs. Incumbent

**\$1.3M →**

**\$650K**

in Sludge Disposal Annually

**50%**

**Reduction** in Chemical Costs

**66%**

**Reduction** in Coagulant Chemistry

**0**

**Metal Salts** Total System Reduction

Send us a water sample or schedule a site visit today!

[TidalClear.com/get-started](https://tidalclear.com/get-started)

TideForce® reliably cleans more water with less chemistry - making it safer, more efficient, reducing wear on machinery, and minimizing risk for human handlers.

