



INDUSTRIAL REPORT

Better Chemistry Removes Ferric and Can Help Reduce Sludge and Total Cost Significantly

Customer Goals

A poultry processing facility was relying heavily on ferric salts to manage their wastewater system. While ferric had been a staple in their program, its side effects were clear: more sludge, higher handling costs, and downstream operational inefficiencies. Together, we evaluated their site conditions and designed a tailored chemistry program that reduced sludge, cut overall chemical spend, and phased out ferric without sacrificing performance or reliability.

Plan & Process

Equipment : Primary DAF, Coagulant Feed

Flow Rate : 1.2 – 1.4 MGD

To move away from the cost and sludge challenges of ferric-based treatment, we introduced a chitosan-based program. This approach delivered more efficient solids separation, which directly reduced sludge volumes and lowered hauling demands. By optimizing chemistry selection and reducing reliance on metal-based treatment, the facility achieved the performance they needed with a significant cut in overall chemical spend.

Recommended Solution

Our Chemistry	211.2 ppm
Coagulant : TideForce 316	200 ppm
Flocculant : PF622	11.2 ppm
Incumbent Chemistry	109 ppm
Ferric Chloride	99.7 ppm
Incumbent Flocculant	9.3 ppm

Results vs. Incumbent

Reduced Sludge Disposal Costs

\$624,000 » \$312,000 Annually

Chemical Costs

50% Reduction

Metal Salts Content

Total System Reduction

Send us a water sample or
schedule a site visit today!
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TideForce™ reliably cleans more water with less chemistry
- making it safer, more efficient, reducing wear on machinery,
and minimizing risk for human handlers.

