

## CASE STUDY

# Refinery Reduces Costs and Improves Environmental Impact with ChemTreat's PUREFloc™

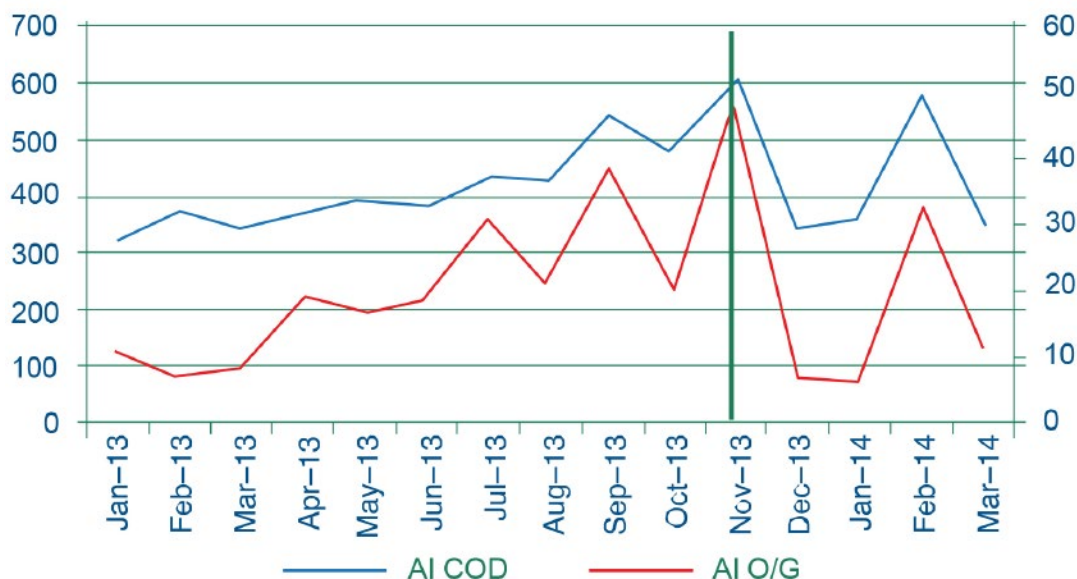
### Background

A large U.S. oil refinery wanted to reduce coagulant costs in their wastewater processing units while improving their environmental impact. This refinery has five different coagulant applications as part of its wastewater processing.

### Solution

ChemTreat recommended its PUREFloc product line as a replacement for the traditional polyDADMAC/PAC blend being used at the site. PUREFloc coagulants are naturally occurring polymers that remove oil from wastewater more effectively than synthetic organic alternatives while reducing polyaluminum chloride usage.

### Aeration Inlet COD and Oil/Grease Before and After PUREFloc Application



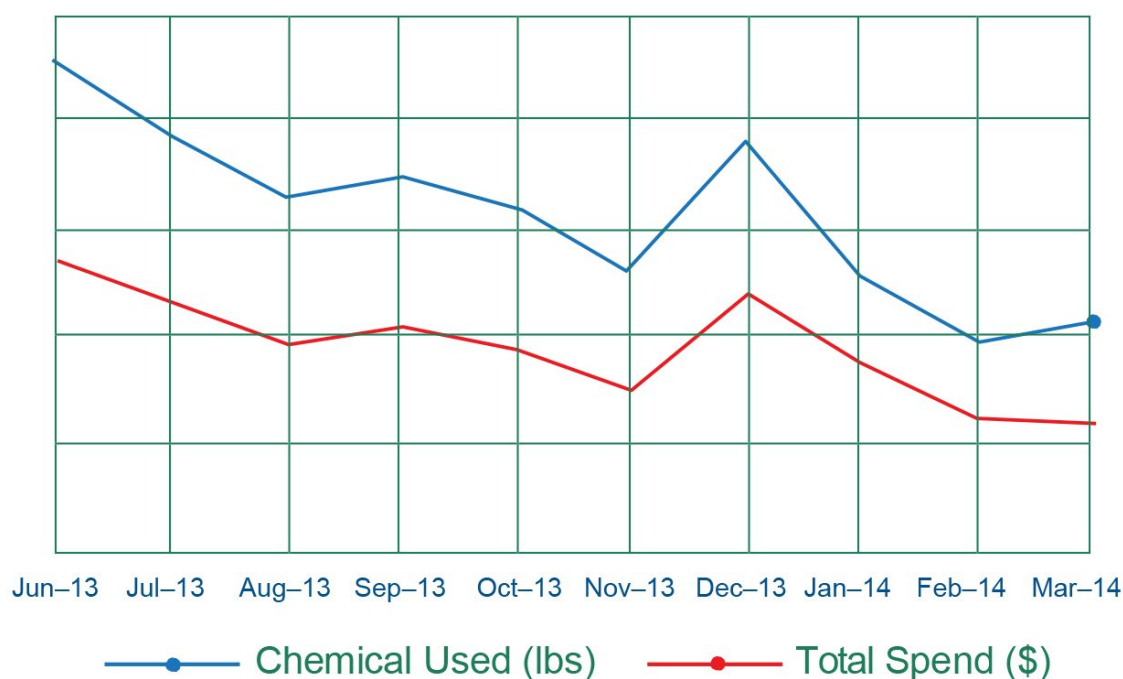
Test Parameter	Results with Existing 08/2013–11/2013	Results after Switching 12/2013–03/2014
Aeration inlet COD (average ppm)	511	407
Aeration inlet oil/grease (ppm)	32	14



Results are examples only. They are not guaranteed. Actual results may vary.



## Reduction in Chemical Usage and Total Spend After PUREFloc Application



### Results

Applying PUREFloc successfully reduced aeration inlet chemical oxygen demand (COD) by 20 percent, aeration inlet oil/grease by 44 percent, and quarterly chemical spend by 18 percent. After the success of the trial, the facility began using this technology full-time.

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