CASE STUDY

Fertilizer Company Reduces Biofouling and Chlorine Gas Usage in Cooling Towers with SurfClean™ 2.0

Background

A fertilizer company in the South Central US was looking to reduce chlorine gas in its cooling tower treatment program while improving free chlorine residuals and microbial control in these systems.

Solution

ChemTreat recommended SurfClean 2.0 to supplement the existing treatment program and reduce chlorine gas usage.

A patented, dual-purpose halogen stabilizer and biodispersant, SurfClean 2.0 is designed to enhance the effectiveness of halogen-based biocide programs and improve biofouling management in cooling systems.

Results

Since the implementation of SurfClean 2.0, the facility has seen numerous improvements over the previous treatment program:

Tower 1

18% reduction in chlorine gas and sodium bromide consumption produced:

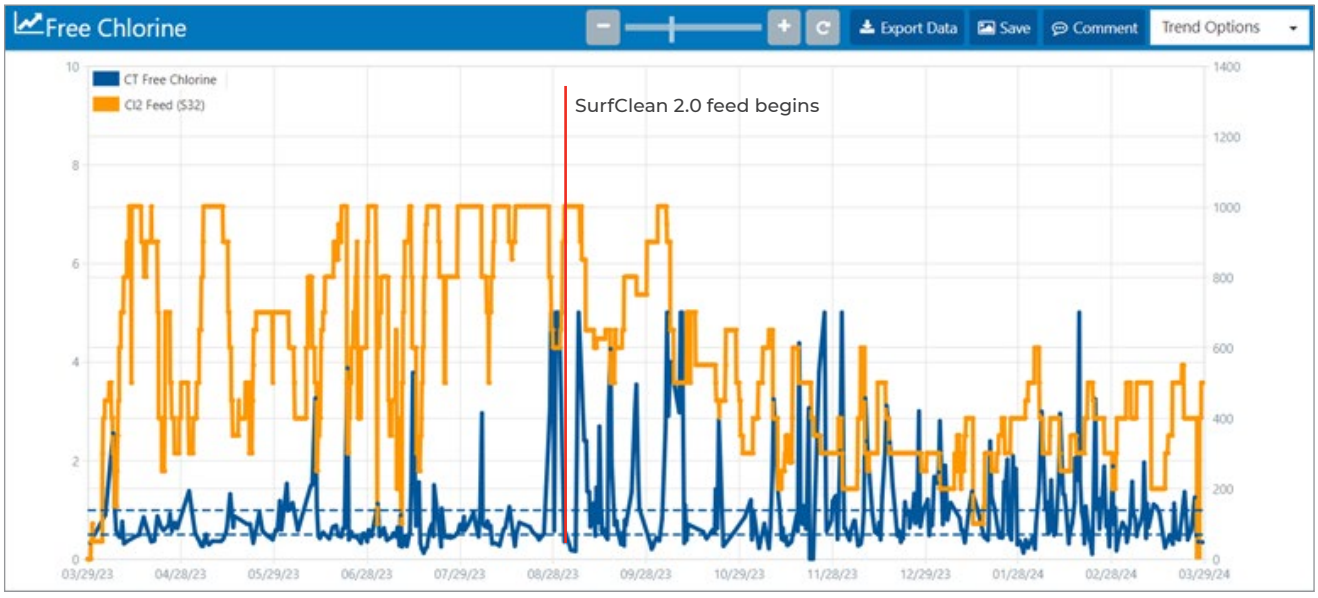
- **9% increase in free chlorine**
- **20% reduction in sessile bacteria count**

Tower 2

37% reduction in chlorine gas and sodium bromide consumption produced:

- **48% increase in free chlorine**
- **24% reduction in sessile bacteria count**

Additionally, using less chlorine gas in their treatment program allowed personnel to spend less time changing gas bottles.



Chlorine gas feed was reduced and free chlorine levels increased with the application of SurfClean 2.0

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

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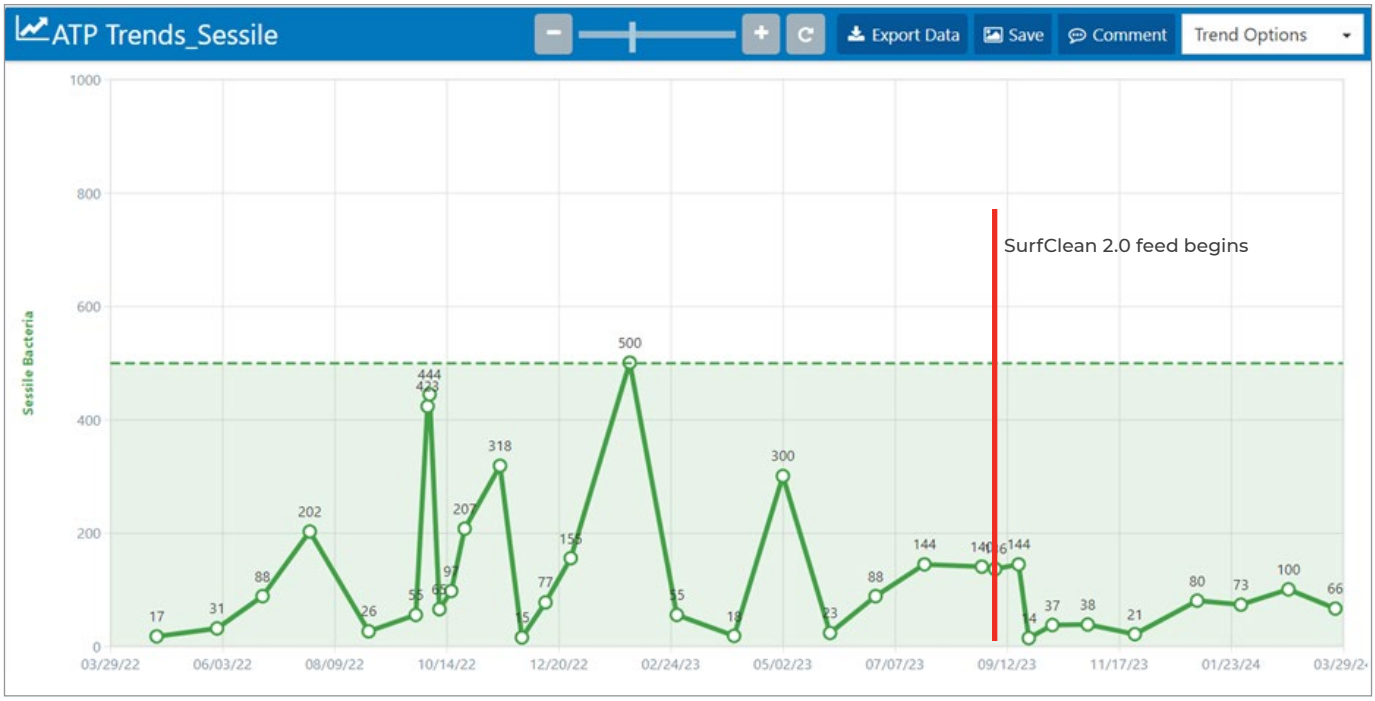

The sessile bacteria count decreased significantly after SurfClean 2.0 feed was initiated.

Based on the results of the SurfClean 2.0 program, the treatment has now been implemented across all six cooling towers at the facility.

SurfClean™ 2.0

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