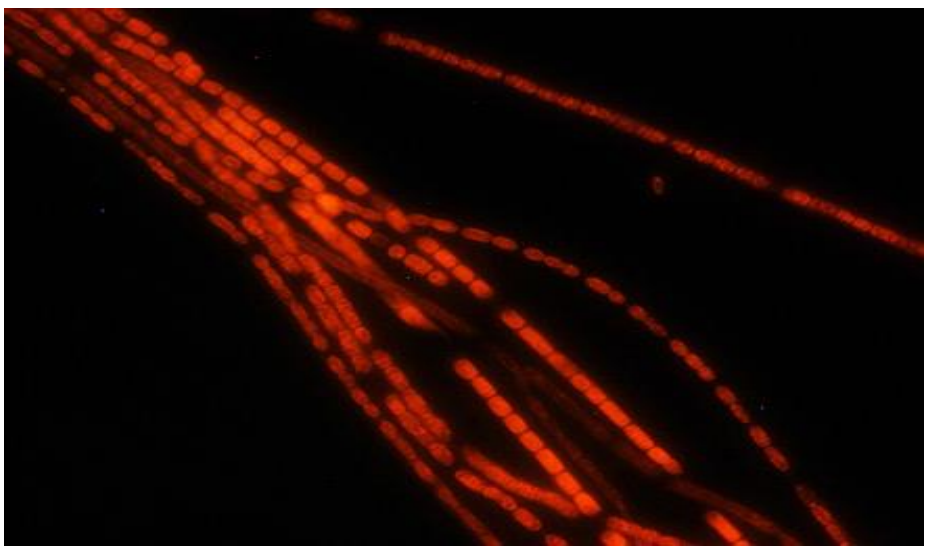
MONERA
TECHNOLOGIES CORPORATION
ISO 9001:2015 Certified

Filamentous Growth Reduction

In a municipal wastewater plant using Microcat ® - XF Microbial Filamentos Growth Inhibitor – BSE 061



Problem

A municipal wastewater treatment plant eliminates a filament infestation caused by a toxic shock episode. Due to a toxic shock and cold weather, filaments took over the treatment system and almost wiped out the typical biomass. Microscopic evaluation showed no higher life forms were present. Treatment with chlorine to control the filaments would have done more damage to the plant**. MICROCAT-XF** was recommended to control filaments and improve biological growth.

Product Used

MICROCAT®-XF Microbial Filamentous Growth Inhibitor

Treatment System

Wastewater Flow: **0.2 MGD (760 m³/day) -** The activated sludge treatment system consists of bar screens, primary clarifiers, two aeration tanks, two secondary clarifiers and chlorine contact

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tanks for effluent wastewater disinfection.

Application Program

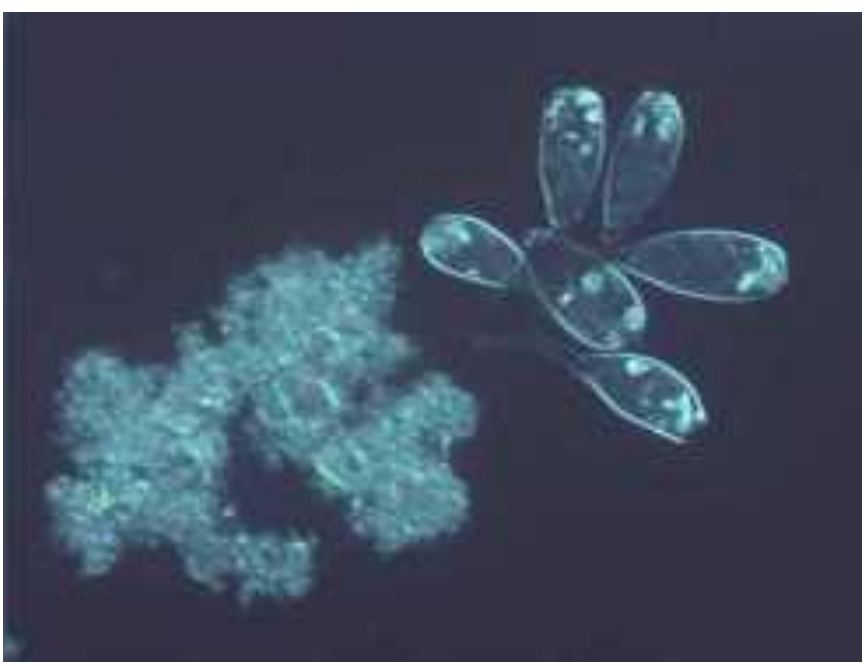
A one-month application program of **MICROCAT-XF** was instituted. Monera, Inc. recommended a dosage of 10 pounds for the first two days, followed by 5 pounds on days 3 through 10, 3 pounds on days 11 through 20 and 1 pound per day for the remainder of the program.

Results

Prior to the toxic event, SVI's were typically around 200, and microscopic examination showed good amounts of higher life forms, including rotifers. During the height of the filament infestation, SVI's rose to 950 and no higher life forms were present. During and since the **MICROCAT-XF** application program, SVI's are in the 140-150 range, higher life forms are back in greater numbers and quantities, and the filaments are no longer present.

Conclusions

MICROCAT-XF evidenced the ability to improve settling and quality of higher life forms, as well as reduce filaments following a toxic shock, even during adverse weather conditions.



MICROCAT® is a registered trademark of Monera Technologies Corporation

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