

Factors affecting the settling of activated sludge flocs - an analysis.

National Library of Canada - The mechanisms of granulation of activated sludge in wastewater treatment, its optimization, and impact on effluent quality

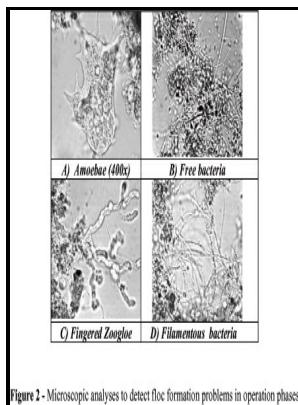


Figure 2 - Microscopic analyses to detect floc formation problems in operation phases

Description: -

-Factors affecting the settling of activated sludge flocs - an analysis.

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Factors affecting the occurrence of filamentous bacteria in activated sludge plants

Chlorination of return sludge has been done. As a result of constant access to soluble substrate from the hydrolysis, the granules became less stable with a large fraction of floccular sludge, which resulted in increased effluent suspended solids concentrations.

Factors affecting the occurrence of filamentous bacteria in activated sludge plants

Predation and granulation Predation is one of the most important interactions between living organisms, as a major cause of bacterial mortality with direct implications on the genetic and functional structure of the community Jousset. Feast-famine alternation and anaerobic feeding increases bacterial cell surface hydrophobicity, accelerate the microbial aggregation, and promote the growth of slow growers Adav et al. Most of fly ash is disposed of in landfills as wastes, which is costly with major environmental footprints.

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Some of the factors such as hydrodynamic shear forces, settling time, volume exchange ratio, and organic loading rate can be controlled by the treatment process designer or operator.

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Cell surface hydrophobicity is an important factor for granule development initiation. Bulking sludge is identified as a sludge that does settle but compacts very slowly.

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