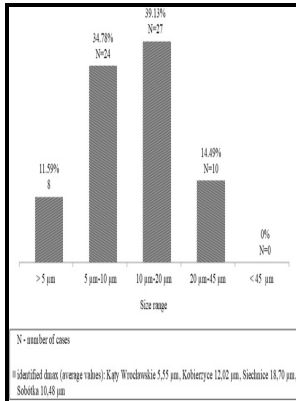


Factors affecting the settling of activated sludge flocs - an analysis.

National Library of Canada - Lesson 17: Activated Sludge



Description: -

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

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Notes: Thesis (M.A.Sc.) -- University of Toronto, 2003.

This edition was published in 2003



Filesize: 37.45 MB

Tags: #Control #of #activated #sludge, #including #troubleshooting

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There are two primary ways to get an average microbe age. If there is an increase in the amount of foam, the tank may have too much air going into it. Impact of typical full-scale parameters such as fluctuating wastewater composition, variations in flow rates, particles present in real wastewater, and influence of complex carbon source is not well investigated.

Factors Affecting Dispersion of Activated Sludge Flocs on JSTOR

Conversely, if the filamentous organisms reach too high a concentration, they can extend dramatically from the floc particles and tie one floc particle to another interfloc bridging or even form a filamentous mat of extra large size. This is important when drawing conclusions from different studies regarding the microbial community composition. Fly ash supplementation improved effluent qualities and enhanced the settling ability of activated sludge.

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During the aeration the activated sludge organisms use the available organic matter as food producing stable solids and more organisms. Just as for the conventional activated sludge process, stable aggregation of the granule biomass is important to achieve low concentrations of suspended solids in the effluent, but also for efficient nutrient removal.

Factors affecting the occurrence of filamentous bacteria in activated sludge plants

However, many plants have had to reduce the sludge age to less than 2 days for Nocardia control, and this may be inconsistent with other process goals, such as nitrification or sludge handling capability.

Relationship between floc composition and flocculation and settling properties studied at a full scale activated sludge plant

Carbohydrates composed of glucose, maltose, and lactose support the growth of filamentous bacteria.

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