

BioCon: Decrease your amount of sludge

and reduce your operational costs

Situation

In some wastewater treatment plants the sludge process management is not working in an optimum way. Results are:

- ≡ The discharge process runs irregularly.
- ≡ The sludge in the storage tanks is too thin resulting in high amounts of sludge that need to be disposed of.
- ≡ The storage capacities in the thickeners are too small.

Aim: Reduce operating costs while keeping the same discharge values and avoid investment in new tanks.

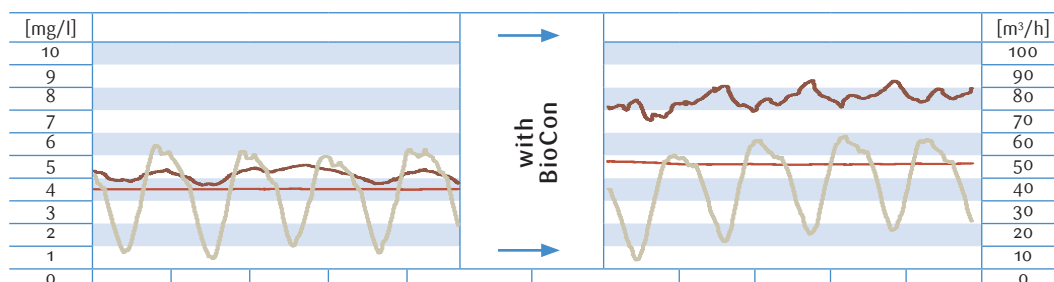
Solution

In such a situation a targeted control system such as BioCon can help:

- ≡ It optimizes the work of the existing sludge control unit.
- ≡ Objectives for the sludge process can be set up individually e.g. to increase the sludge thickness further.
- ≡ The sludge module provides an optimized feed of returning sludge.

Result

The sludge characteristics could be significantly improved after the installation of BioCon. The degree of sludge stabilization can now be adjusted and automatically be kept throughout the year.



- ≡ 45% thicker sludge in the secondary clarification due to improved settling characteristics.
- ≡ 33% less sludge due to a higher thickening degree.
- ≡ Almost 10% less energy consumption for aeration processes.
- ≡ More effective overall cleaning process due to better characteristics of the biomass in the biological purification process with constant discharge values.



»We were flabbergasted how much potential of sludge reduction still existed within our plant.«