

BioCon: Comply with P_{tot} monitoring value

while reducing the cost of operation

Situation

Some wastewater treatment plants have difficulties to keep the value of P_{tot} low. Results are:

- ≡ Use of large amounts of flocculants.
- ≡ High operating costs for flocculants and the resulting sludge.

Aim: Safe compliance with the phosphor limit value and reduction of the costs of operations.

Solution

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

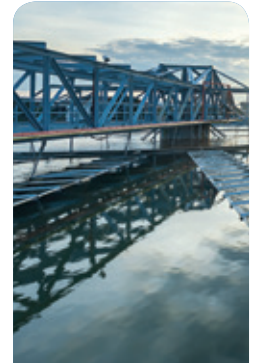
- ≡ It controls the biological cleaning process according to demand and load.
- ≡ It increases the biological activity, i.e. it reaches a higher level of degradation.
- ≡ It stabilizes the discharge values on a lower level.
- ≡ It improves the efficiency of the entire cleaning process.
- ≡ The phosphor elimination module optimizes the chemical and biological phosphor elimination.

Result

In addition to keeping the phosphor value, the sewage treatment plant benefited from the fact that frequent re-adjustments of the system became unnecessary.

- ≡ Less staff was required due to the intervention of the intelligent control technology.
- ≡ The operational safety was significantly increased.

	Results
Discharge value P_{tot}	safe < 1.0 mg/l
Savings with flocculants	6,000 €/p.a.
Savings due to reduced amounts of sludge	10,000 €/p.a.



»Before we introduced BioCon we had to re-set our systems permanently. Now we are relieved to know that BioCon constantly controls our plant in an optimum way.«