



Micronutrients for overall optimal anaerobic performance

Problem

Many anaerobic wastewater treatment plants struggle with an influent unbalanced in minerals and trace elements, resulting in variable microbial communities working under suboptimal condition. This brings along that small changes in temperature or loading rate can impair the wastewater treatment process.

Solution

Based on a longterm expertise, Avecom has successfully developed a series of liquid supplements containing essential minerals and trace elements ensuring a balanced performance. Preventive dosing of these supplements leads to an improved operation of the anaerobic wastewater treatment plant. The liquid supplement should preferably be supplied by a time controlled dosing system. Tailor-made variations of these micronutrients can be developed in cooperation with the customer.

Advantages

- ◆ More robust anaerobic conversion process
- ◆ Higher reliability in case of shock loadings, etc.
- ◆ Improved effluent quality (better removal of organic material and total suspended solids)
- ◆ Lower operational costs of the installation
- ◆ Decreased levy costs on the final effluent
- ◆ Tailor-made adaptation of the micronutrients are possible
- ◆ Dosage optimization by Avecom specialists based on analyzed influent characteristics

Application

Biological anaerobic wastewater treatment (mesophilic and thermophilic UASB, CSTR, ...)

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