

# Factors determining nitrogen removal from sewage using a gravel bed hydroponic treatment system

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## CHEMICAL AND MICROBIOLOGICAL PROCESSES IN GRAVEL

The hydroponic systems also produce considerable biomass which can be utilized for different purposes. Int J Syst Evol Microbiol 67:218—224.

### Microbial characteristics of constructed wetlands

Considering energy needed for other applications in the system, such as pumping and internal recycling, the hydroponic system is comparable to other small conventional treatment units, as opposed to the low energy usage by constructed wetlands and infiltration units. The amounts of COD and BOD in the inflow 1 , and the decrease in amount of COD between the different sampling points: out from the anoxic tank 2 , out from the aerated tank 3 and in the sump of Pump 1 8.

### Microbial characteristics of constructed wetlands

Environ Sci Proc Impacts 16:567—575. The first large system was built on Gotland in 1954, and by 1970 the 128 constructed lagoons were by numbers the most common treatment technique in Sweden.

### Suitability of nutrients removal from brewery wastewater using a hydroponic technology with *Typha latifolia*

How "green" are aquaculture, constructed wetlands and conventional wastewater treatment systems? Although nitrogen is not a limited resource, the nitrogen fixation process is costly and therefore recycling of nitrogen is also of interest.

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