



Unterlunkhofen, Canton Aargau, Switzerland



WWTP Data	
Type of WWTP	Municipal
Maximum flow	5.500 m ³ /d
Capacity	12.800 PE
Biological stage	2 lanes 2 aerobic tanks (total: 1.080 m ³) (2 small denitrification zones)
Operation	aerated
Treatment	Nitrification Partial-denitrification P-precipitation

Why did they upgrade WWTP?

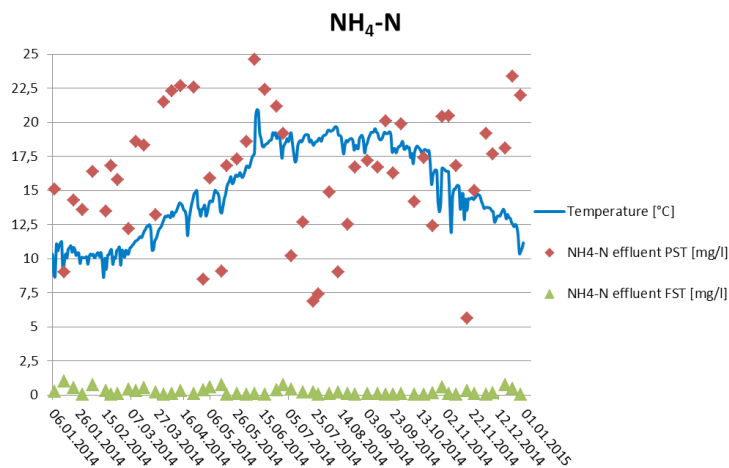
The enlargement of WWTP catchment area associated to increase of capacity from 7700 PE to 12800 PE (in 2007) and from 12 800 PE to 21300 PE (in 2012) required a higher treatment performance. Furthermore, the lake Reuss, which receives the WWTP effluent, was declared a nature reserve and nutrients removal targets for discharged wastewater had become stricter.

Why IFAS?

In addition to Swiss standard values for nitrite, it was also requested a target value of 2 mg/l for chemical parameter ammonium, deviating from legal requirements. As the plant is located in alpine upland, long winters with low temperatures are standard and to achieve a year-round stable nitrification, the combined process with Cleartec® Biotextile as media was chosen.

Which results are reached by IFAS?

Treatment target values are achieved even at temperatures below 10°C. The excellent nitrification performance can still be observed nowadays.



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