

# Floating sludge avoidance Sewage Treatment Plant, Community Riedenberg, Germany



VG Bad Brückenau, Municipal Sewage Treatment Plant Riedenberg

## Operation

1 OLOID Type 400 in the maturation pond

# **Period**

Since 2004

### Success

Better discharge values

Successful prevention of floating sludge

### Goal of the OLOID operation

Optimisation of operations: It repeatedly resulted in floating sludge, sludge output and deterioration of the discharge values in the maturation pond, after the biological stage (trickling filter system). The OLOID is used for mixing in the floating sludge layer and for preventing this layer on the maturation pond.

# Description of the plant

Municipal sewage treatment plant with trickling filter system, expansion size: 1800 population equivalent, mainly domestic sewage

Process diagram: Racking system -> Trickling filter system -> Maturation pond

OLOID positioning: in the first third of the pond

The OLOID flow produces a continuous flow in the maturation pond.

### Results

- The use of the OLOID has successfully prevented the formation of a floating sludge layer for more than 15 years.
- When switching off the OLOID, a layer of floating sludge will be generated in a very short time (2-3 days) and the discharge values will deteriorate by approx. 50 mg/l in the COD.
- Due to the very low energy consumption of only about 200 W, this is the most cost-effective solution for the customer to avoid the floating sludge on the maturation pond.