

Ultra-filtration plant for treatment of leakage water

Project

Construction, delivery and installation of an ultra-filtration plant with siClaro® membrane filters as advanced wastewater treatment for the landfill Singhofen/ Rhein-Lahn-Kreis.

Commissioning: 06/2009

Ultra-filtration plant

The ultra-filtration is installed as advanced wastewater treatment of the existing wastewater treatment plant for the hygienization and further treatment of the leakage water.

The ultra-filtration plant consists of a filter chamber with submerged siClaro® membrane filters and a separated surplus sludge storage tank. The filtrate obtained by the filtration process is free from germs and suspended solids and can be reused for irrigation purposes, for the cleaning of the parking area, as flushing water or simply be discharged into the receiving water. For reuse purposes a filtrate cleaning and storage tank can be integrated into the treatment plant. The effluent inflow is carried out by the lifting station with an adequately dimensioned wastewater storage tank.



Technical data

Population Equivalent (PE)	4800 PE ₆₀
Wastewater inflow (m ³ /d)	144
Filtering surface installed (m ²)	675
Wastewater storage tank (m ³)	13,32

