



### Advantages:

- Low Operational Costs
- Water-Reuse
- Compact Design
- Low Space Requirement for Bioreactor and Filtration Unit
- Direct Discharge to Pre-Flooder
- No More Fees for Wastewater

**Project:** Borgmeier  
**Location:** Delbrück, Germany  
**Commissioning:** October 2010

### Scope of Supply:

The pre-treatment of the wastewater is performed via a screen and a flotation unit (DAF). The further treatment takes place via a Membrane-Biological Reactor (MBR). The surplus sludge is getting dewatered via a press. Inside the bioreactor there are installed two aerating grids with air-diffusers which are able to jack up for maintenance purposes without draining the biomass. For phosphate-removal purposes ferric chloride is added simultaneously.



### Technical Data:

Capacity	480-700 m <sup>3</sup> /d
Filtration Capacity MAX	30 m <sup>3</sup> /h
COD / BOD <sub>5</sub> Permeate	< 50 mg/l / < 10mg/l
N <sub>total</sub> Permeate	< 5 mg/l
P <sub>total</sub> Permeate	< 1mg/l