



Mixing and equalising basin

Industrial waste water, Johannesburg, South Africa

„Waste water pre-treatment“



Clover Industries Limited
Customer of Memcon

Operation
1 mixing and equalising basin
with 200 m³ with one OLOID
Type 400 I

Period
Since November 2016

Success
Homogenization of the
concentration differences and
prevention of sedimentation and
degradation of stabilizers
(Benzoates)

**Entry of sufficient oxygen to
avoid anaerobic conditions with
only 250 W!!!**

Application description:

During ice tea production in the bottling and syrup rooms of the largest dairy "Clover" in Johannesburg waste water is drained at different times and with different concentrations. The wastewater quantity is 40 m³/day with a COD of approx. 30,000 mg/l.

In order to be able to operate the subsequent biological purification stage without concentration impacts, a mixing and equalizing basin with a volume of 200 m³ was connected upstream.

In addition, there was the requirement to avoid anaerobic conditions in this basin by means of slight aeration in order to supply the biological stage with fresh waste water. The enrichment with oxygen also serves the decomposition of the benzoates dissolved in the wastewater, which would have created problems in the downstream biological stage.

OLOID operation:

Both tasks were carried out with only 250 W by the OLOID Type 400 I, mounted on a float, to the satisfaction of the customer, thus avoiding unnecessary operating costs in the form of electricity through the effectiveness of the OLOID for aeration and circulation. Even after half a year of operation, there are no significant deposits of suspended solids on the basin floor.

The project was carried out by our partner Memcon, Johannesburg, South Africa
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