



Case Study

BATHING POND AND WELL

Mr Hillen
Wachtendonk
Germany

In June 1997, the situation was:



- Algae covered the whole surface of the lake, so it was practically impossible to bathe there
- Visibility was 15cm

Each year, the sediment layer increased, because of plants and leaves which accumulate there from the many surrounding trees.

These factors contribute to a general worsening state, year by year.

Application

Every 15 days, he applied Plocher Water Activator (AW 4041) across the surface using a boat. Then, during winter between November and March, he used Plocher Sediment Reducer (HW 4241) to activate reduction of the sludge.

Results

The water often changed colour during the first two years of treatment, due to the stimulation of bacterial activity. Mr Hillen was patient.

After using Plocher Sediment Reducer (HW 4241), Water Activator (HW 4041) and Bio-Cats, in June 1999:

- Water is clear
- Algae has almost completely disappeared
- Visibility is to a depth of 1.50m
- Sediment has reduced by 80%
- No bad smells

Bathing is enjoyed once again.



Complete regeneration took three years, but by at the end of the second, the success of the treatment was obvious. Treatment during the third year was undertaken to stabilise the ecological balance. Mr Hillen is very satisfied with improvement in the pond.

Due to the number of trees surrounding the lake, it is inevitable that leaves fall into the water. This requires treatment with Plocher Sediment Reducer through the winter to prevent a recurrence of previous problems.

THE WELL

Since 1994, a well polluted with bacteria (coliforms and Escherichia-coli) and high nitrate levels (65mg/l) also posed a problem. The Institute of Food Analyses and Environmental Hygiene stated it needed attention. In 1997, they recommended chlorination, and was undertaken. But the same problems reappeared after a short time.

Their PLOCHER adviser, suggested that groundwater may be entering their well because neighbours were located about 30m higher than them, and water was filtering into the well at approximately 6m. A Plocher Water Kat (AW 4611) was installed on the pump control and treatments with 30g Plocher Ground Water were made each week. Once regenerated, treatments are monthly.

The Institute undertook repeat analyses at the end of 1998:

COLIFORMS	negative
ESCHERICHIA-COLI	negative
NITRATES	35.2mg/l

Thanks to PLOCHER, the well regenerated and provides healthy drinking water again, which is pleasant to drink.

30 January 1998