

Rehabilitation of a Eutrophic Pond © 2009

Bacta-Pur®, BACTIVATOR® & ECOPROBIOTICS® are trademarks of Aquaresearch Canada Ltd used under license.

ECOPROBIOTICS®, of the Bacta-Pur® System, are beneficial communities of natural bacteria, which have been on earth for millions of years and have been selected for their synergistic ability to biodegrade pollutants and to improve water quality. ECOPROBIOTICS® increase biodiversity. Just as people take probiotic yogurt for its' ability to assure the presence of the optimal community for digestion and immunity, ECOPROBIOTICS® improve ecosystem health. EVERY PRODUCTION of Bacta-Pur® products is analyzed and cleared for shipment ONLY after passing all performance tests and being CERTIFIED PATHOGEN FREE using techniques from the food industry. ECOPROBIOTICS® are purely natural and beneficial; they NEVER contain added chemicals such as surfactants, emulsifiers or enzymes..., nor do they contain genetically modified (GMO) or deliberately mutated organisms. ECOPROBIOTICS® are safe and beneficial. Disease causing organisms are never used, as others do or permit.

Background

The pond of the rehabilitation centre of Oignies (France) has a surface area of 2 hectares and was dredged in 1999. It showed serious symptoms of eutrophication: blanket weed covering the surface and a proliferation of aquatic plants, such as *Myriophyllum spicatum* and *Callitriche brutia*. The water analyses confirmed an excessive level of orthophosphates.

Treatment Program

The prime objective of the treatment was to rid the pond of algae and plants, and then to treat the water to obtain eliminated the nutrients causing the eutrophication.

A submerged aerator was installed as a first step. Then a chemical treatment with Desalg Pro and Desalg Pur reduced the proliferation of algae and plants. This was followed by biological treatments with the Bacta-Pur® System to biodegrade organic sediments and reduce organic nitrogen as well as orthophosphates.

Results

Two months after the initial treatment the algae had disappeared and a large portion of the proliferating aquatic plants as well. **The analyses confirmed a major reduction of orthophosphates (from 2 mg/l to 0.4 mg/l) following the treatment with the Bacta-Pur® System.**

In spring 2002, the pond water had recovered an excellent quality but the biological treatment is carried on in order to sustain the improved water quality. The next step will be the reintroduction of a diversified aquatic flora.

