



Food Processing Treatment Products

Milk Producer in Brazil

The Cooperative de Laticínios Maringa, in Maringa, Parana Brazil, is a milk and milk products manufacturer. They have a system containing two aeration lagoons with an average flow of 80 cubic meters per day, and a retention time of 15 days. Bad odors from this system caused complaints from the surrounding populace. The plant also experienced high operational costs (maintenance and electrical) and low efficiency in the degradation of organic matter.

Before beginning treatment, the aeration system was disconnected. Lacto-Bac was applied throughout the system. Technical assistance was provided by Micro-Bac with monthly site visits during the project.

Objectionable odors were eliminated 45 days after start-up. With the initiation of anaerobic treatment, significant reduction in COD, BOD, and FOG were achieved, as noted in the table below. In addition, the pH was stabilized through the proprietary action of the microorganisms.

Removal Before Treatment	Removal after Treatment
COD 74% Reduction	COD 93% Reduction
BOD 92% Reduction	BOD 98% Reduction
FOG 52% Reduction	FOG 97% Reduction