

APPLICATION NOTE

REDUCED PRODUCT LOSS AND TREATMENT COSTS WITH ONLINE TOC MONITORING

The Hach BioTector B7000 online TOC analyzers helped Glanbia meet its product loss and treatment objectives with minimal maintenance

ABOUT GLANBIA

Glanbia PLC is an international nutritional solutions and cheese group headquartered in Ireland, with a strong global presence in key food markets and sectors. The Irish operation has 8 processing facilities, annual revenue of \$1.7 billion and more than 1,800 employees.

Glanbia is the largest dairy processor and cheese producer in Ireland, manufacturing a wide range of dairy products including whey, casein, cream and cheese. They hold market leadership positions across the Irish grocery market with brands including Avonmore, Kilmeaden and Yoplait.

BEFORE BIOTECTOR

The entire plant previously relied on grab samples and laboratory measurements to determine the levels of waste from each of the process plants, the total loading to the bio-tower treatment plant, and the success or failure of the treatment facility.

BIOTECTOR INSTALLATION

Waste feeds from the individual plants to an in-house wastewater treatment plant. Organics, nitrates and phosphates are removed and clean water is discharged to the local river.



A total of 10 Hach BioTector B7000 online analyzers, installed between 1997 and 2012, monitor the amount of waste product discharged from each of the process plants in order to facilitate the implementation of the waste minimization program. The analyzers also measure total organic loading to the treatment plant to ensure the plant operates within its designed specification and regulatory requirements for water discharged into the river.

THE BENEFITS OF BIOTECTOR

Using BioTector Online TOC Analyzers has reaped multiple benefits for Glanbia. “We saw a dramatic reduction in the amount of waste product discharged from each of the process plants. Some plants showed a reduction of up to 40% soon after installation, which gave us a payback of less than 3 months.” said EHS Manager, Glanbia, “We also saw a reduction in loading to the treatment plant, thus ensuring the plant operated at its optimum level. This yielded reduced running costs and the total elimination of an odor problem that had been an issue for many years.”

“By controlling the waste load to the treatment plant and operating within specifications, the final discharge regulatory requirements are easily achieved. BioTector helps to meet our Environmental objectives and targets as required by ISO14001 and ISO15001.”

The EHS Manager concludes, “The food processing industry does not have the internal maintenance support structure of analyzer technicians more commonly available in heavier industries such as refineries and chemical plants. This was overcome because the BioTector analyzers operate without requiring regular and frequent internal maintenance support.”

“We have the analyzers serviced by our local BioTector distributor on a contract basis and apart from that, we only perform minimal maintenance here. They don’t need too much attention as they’re quite reliable.”

FOR TECHNICAL ASSISTANCE, PRICE INFORMATION AND ORDERING:

Tel: 800-227-4224 | E-Mail: techhelp@hach.com

To locate the HACH office or distributor serving you, visit: www.hach.com

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