



• Reliable on-line COD analysis from an application with high levels of fats and calcium with the BioTector® 970.

- AUTOMATIC CLEANING OF SAMPLE LINES ENSURES TROUBLE FREE OPERATION
- FAST PAYBACK ON INSTALLATION – MONITORING DRAMATICALLY REDUCES WASTE
- RELIABLE ANALYSIS WITH COD READINGS FROM 100 TO 50000 MG O/L

General Background

The waste produced by the cream separation process produces a special type of waste, high in calcium. Furthermore, the CIP process can produce waste high in fats and particulates.

GLANBIA PLC

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Application Description

The need to increase the efficiency of the cream separator plant while at the same time reducing the level of waste produced prompted Glanbia to install a BioTector® 970 TOC analyser to monitor the fallout from the plant. Due to the nature of the waste, the Biotector® was equipped with a Teflon PFA Reactor, Fluorocarbon High Range Valve and Cleaning Cycle Valve.

- The BioTectors® Teflon PFA Reactor allowed the use of HCl, which ensured that there was no build-up of calcium in the rector.
- With the Fluorocarbon High Range Valve, the BioTector® can measure beyond 50000 mgO/l without dilution.
- A special cleaning solution, consisting of a special mix of Nitric and Phosphoric acids in the ratio of 2:1 was used to clean the sample lines. This resulted in reliable and trouble free operation.



The Installation

The BioTector® 970 monitoring the fallout from the cream separator plant at Glanbia, installed in a 2m x 2m cabin directly over the waste pipe leading to the WWT plant.

Along with the BioTector® 970, the cabin is used to house the chemicals required by the BioTector® and also the cleaning solution used to clean the sample line.