



• The Biotector[®] 970 provides reliable and accurate measurement of low COD levels in final effluent.

- RELIABLE ANALYSIS WITH COD LEVELS AS LOW AS 10 MGO/L.
- AVERAGE SAMPLER ENSURES THAT A REPRESENTATIVE SAMPLE IS TAKEN ON FAST FLOWING EFFLUENT STREAMS.
- FIELD PROGRAMABLE DELAY BETWEEN EACH ANALYSIS ENSURES MINIMAL USEAGE OF REAGENTS ON SLOW STREAMS.

General Background

Accurate analysis is required to comply with stringent EPA discharge licence requirements. Here, typical COD readings are in the order of 10 mgO/l, several orders of magnitude lower that that of the incoming waste to the WWT plant.

GLANBIA PLC

Ballyragget
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Application Description

Both discharge points, while having similar, low COD levels differ dramatically from each other in that the cooling tower stream is fast flowing, while the water leaving the WWT plant is slow moving. The BioTectors[®] monitoring the final effluent were both individually optimised for these conditions.

- The BioTector[®] monitoring the fast flowing stream is equipped with an Average Sampler. The Average Sampler, the operation of which is controlled by the BioTector[®], generates a composite sample for the BioTector[®] to analyse. After the Biotector has taken its sample, the Average Sampler automatically empties and immediately starts to generate a new composite sample.
- The BioTector[®] monitoring the slow moving stream was optimised by programming its microcontroller a delay between each analysis. This significantly reduced the usage of reagents and running costs associated with that application, while maintaining reliable, representative analysis.



**One of the
Biotector[®]
installations
used to monitor
final effluent at
Glanbia.**

For an overview of the complete waste management system at Glanbia, see data sheet number 3.