

# FilterClear™

## Waste Water Treatment Works: Luss, UK

### Background

Luss is a small village in Argyll & Bute, Scotland, on the west bank of Loch Lomond. The village has its own waste water treatment works which treats approximately 780m<sup>3</sup>/d.

Being on the banks of Loch Lomond the site is subject to strict Bathing Water Directive consent limits. In addition, the works sees large fluctuations in loading during the peak holiday periods which affected the final effluent quality.

The works were failing to meet the suspended solids and BOD requirements for the bathing water directive consistently.

In addition, the suspended solids carried over from the clarifier onto the UV disinfection system reduced transmissivity and hence reduced UV efficiency.

### Process Solution

FilterClear™ was proposed as a tertiary treatment for the removal of suspended solids prior to the UV system to improve the efficiency of disinfection.

FilterClear™ was installed at the site, between the clarifier and the UV treatment. The tertiary system treats a maximum flow of 14 l/s.



## FilterClear™



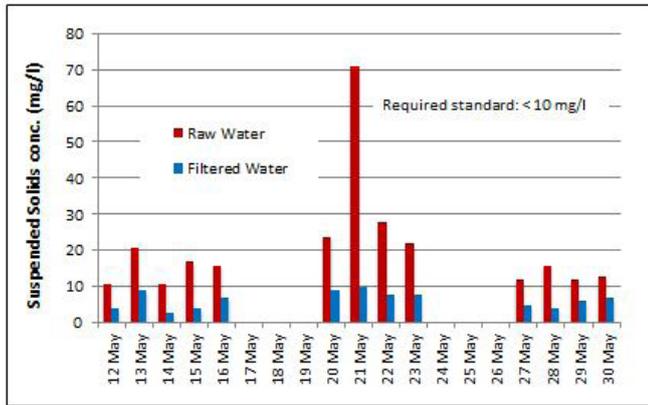
A BLUEWATER BIO TECHNOLOGY

## Performance

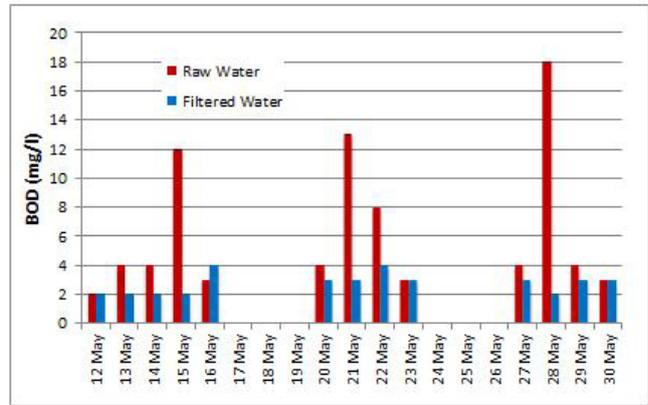
The results show a significant reduction in suspended solids and BOD. Since the FilterClear™ has been installed, both total coliforms and E.Coli have been measured at the final SEPA sampling point (after UV treatment). Results have shown an average reduction of 99.9% in both parameters.

The introduction of FilterClear™ dramatically improved the TSS and BOD removal and overall efficiency of the UV disinfection.

A once failing works has been transformed and is now producing a quality of effluent previously not thought possible through simple and cost effective filtration.



May 2008



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“The consistency of FilterClear™ has been the main reason for the site’s successful performance during the bathing water season. I would recommend FilterClear™ for similar applications”  
Scottish Water spokesman.

To find out more about FilterClear™ call:

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