

# FilterClear™

## Process Water: Glenlossie Distillery

### Background

Glenlossie Distillery, owned by leading premium drinks business Diageo, is situated in the north of Scotland, not far from Elgin, nestling under the cover of a fir-clad hill. Its location enables waters running from the Mannoch Hills to collect in a reservoir just south of the distillery.

To save expensive mains water charges for 30,000 litres per hour, the reservoir was identified as a cooling water source. A cooling tower was installed but became heavily fouled. This led to increased costs of biocides along with a drop in the cooling tower performance that potentially threatened the feasibility of using the water for cooling and a return to mains water.

### Solution

Analysis of the reservoir water showed suspended solid levels between 30-90mg/l. The suspended solids and the peaty nature of the water were identified as being the main cause of the fouling at the cooling tower.

FilterClear™ proposed the installation of its filtration process to provide a low cost, low footprint solution which would prevent fouling of the tower and enable continued use of the reservoir water.

A target level of <math><5\text{mg/l}</math> suspended solids was set for the filtered water.

A fully automated duty/standby filtration system was installed to treat the reservoir water.



## FilterClear™



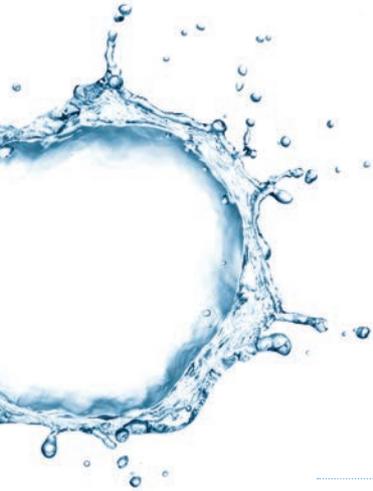
A BLUEWATER BIO TECHNOLOGY

## Performance

As a result of installing the FilterClear™ plant the biocide consumption needed to control biological activity in the cooling circuit has substantially decreased, reducing the dosing frequency from daily to weekly.

The suspended solids concentration of the filtered water is consistently below the target value of 5mg/l.

The installation of FilterClear's low cost/small footprint multimedia filter has enabled Diageo to continue to use the reservoir water for cooling and to reduce chemical costs. The savings in water and chemicals provided a full ROI on the system within 2 years.



“Without doubt one of the best investments we have made in this type of technology. FilterClear™ has proved to be a trouble free system that provides a high quality filtrate and allows us to manage our cooling tower efficiently and cost effectively”  
Diageo Distillery Manager

To find out more about FilterClear™ call:

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