



# FILTRATION SYSTEM PROVIDES LOW TURBIDITY WATER FOR MAJOR MUNICIPAL WATER SUPPLIER



**CLIENT**  
Major Municipal Water Supplier

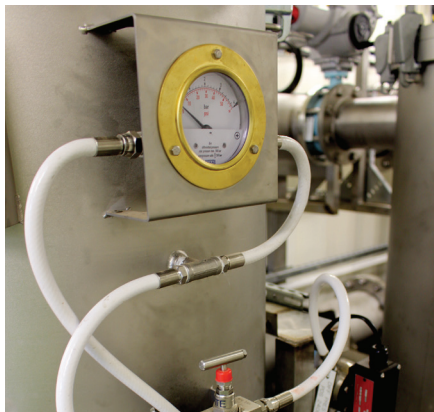
**BUILDING LOCATION**  
Remote site in the South of the UK

**SECTOR**  
Drinking Water Supply

## ABOUT THE PROJECT

The major municipal water supplier required a filtration system to provide low turbidity water to the UV system operated at one of their chalk boreholes. The water is disinfected by chlorination prior to filtration/UV treatment and pumping to the reservoir.

To maximise system life and minimise costs the client requested a design that allows the flow to automatically bypass the cartridge filters when the upstream turbidity is within acceptable limits and therefore no additional turbidity reduction is required.



## PROJECT CHALLENGES

In addition to requiring the components to be fully DWI Regulation 31 compliant the client specified supply of a fully functional contained system with remote monitoring and feedback and operation with minimum or no site attendance.

The location meant that the container had to be compact, but there was still a need to allow adequate space inside for operator activities such as system maintenance and filter change-out. Therefore lifting systems were designed and built into the container to allow quick removal of the strainer basket as well as allow for hoisting of the heavy actuated valves and other equipment during major service. In addition the container system had to have certain features integrated such as lighting, heating, intruder alarm, and ventilation system.

The project required strict adherence to client specification and standards and integration with the UV system provider.

## AMAZON FILTERS' SOLUTION

- CUSTOM DESIGNED AND FABRICATED CONTAINERISED SYSTEM ✓
- DWI REGULATION 31 COMPLIANT STAINLESS STEEL 3MM STRAINER AND HOUSING ✓
- 4 X 60 SERIES DWI REGULATION 31 COMPLIANT CARTRIDGE FILTER HOUSINGS ✓
- DWI REGULATION 31 COMPLIANT SUPASPUN II R31 CARTRIDGES ✓
- SYSTEM DESIGNED WITH A MANIFOLD SYSTEM AND A SET OF ACTUATED VALVES, TURBIDITY SENSORS AND DIFFERENTIAL PRESSURE SENSORS TO PROVIDE THE REQUIRED FLOW PATH AND SYSTEM FEEDBACK INTO CLIENT CONTROL SYSTEM ✓