

AUTOMATIC PRE-FILTER NITRATE REMOVAL

for Borehole Water Treatment Plants

Chemical elements, such as nitrate and arsenic can occur naturally in ground water. In some areas, naturally occurring nitrate is added to by agriculture – through manure from livestock and fertilisers.

Any water boreholes identified at risk from nitrates or arsenic are normally fitted with an Ion Exchange System to remove the chemical elements and ensure safe drinking water. However, in order for the process to operate efficiently, the Ion Exchange resin vessels must be kept free from solid particles.

A BOLLFILTER Automatic Type 6.18 is the ideal way to protect Ion Exchange Systems from potential blocking or damage from solids. By pumping raw water from the borehole to the Ion Exchange vessels through a BOLLFILTER Automatic Type 6.18, all solid particles (down to 50 micron) will be automatically removed.

BOLLFILTERs Automatic feature a self-cleaning, backflushing design that ensures efficient, long-life without the need for regular cleaning or maintenance. As a result, they are ideal for protecting water treatment plant – even in un-manned situations.

By installing a BOLLFILTER Automatic System for nitrate or arsenic removal via Ion Exchange, the life of the resin in the vessels is extended and the requirement for resin backwashing is reduced.

Client Thames Water

Contractor MJ Gleeson

System 1 x BOLLFILTER Automatic Type 6.18 DN250 low pressure borehole, with backflush assist pump and Wimes LCP. 238m³/hr to 50 micron



ABOVE:
BOLLFILTER Automatic Type 6.18 installation at Thames Water's Grimsbury Water Treatment plant for protection of Ion Removal System.

