

COUGAR COATINGS Estd. 1988 WASTEWATER DIVISION

Supplying unique solutions for the water and waste water industry

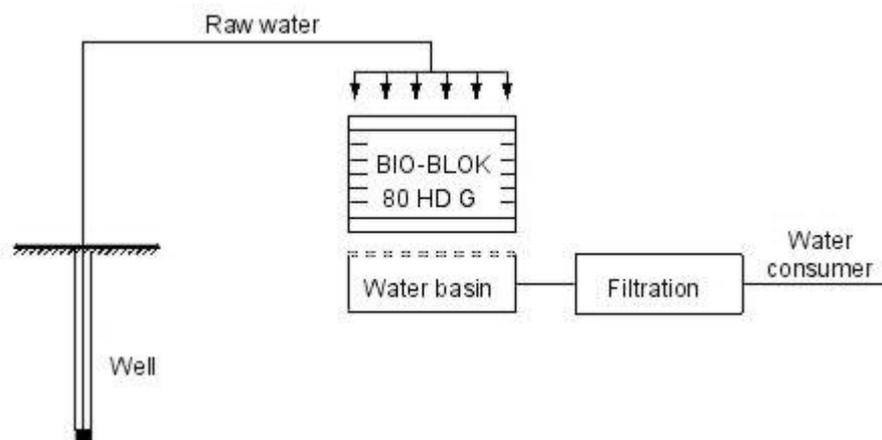


BIO-BLOK® INTELLIGENT FIXED FILM BIOLOGICAL FILTER MEDIA

2.5.2. Case Stories

1. Degassing and aeration plant for tap water

Technical information	Trickling filter constructed in February 1997
Type	BIO-BLOK® 80 HD G
Client	Rødovre Vandværk (waterworks), Denmark
Consulting Engineers	UNICON AQUA Køgevej 172 DK-4000 Roskilde Tel.: +45 46 34 60 00 / Fax: +45 46 34 61 08



Process diagram

VAT Registration Number 491201374

HEAD OFFICE: 4 Mill Hill, Gamlingay, Sandy, Bedfordshire SG19 3LW Contact details 01767 651151-
Fax: 01767 651269 e-mail: andygostling@cougarwastewater.co.uk

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Brief description of plant and process

The pumped raw water is lead to an existing raw water basin on which a trickling filter is established in the form of BIO-BLOK® 80 HD G placed horizontally. The raw water is spread over the trickling filter by means of a hole plate so that the contact surface of the water to the filter is as big as possible.

BIO-BLOK® 80 HD G has been chosen due to the fact that it is the filter medium that breaks the water best possible when the jets of water pass right through the net tubes. Thus the water gets a big contact with the oxygen of the air, and at the same time, the water is aerated most possible so that volatile gasses in the water can be aired effectively.

Treatment results

After the raw water has run through above mentioned aeration system, the water will be aerated to an aeration percentage of approx. 95%-100%. This results in the fact that iron and manganese etc. easily can be precipitated from the raw water in the subsequent filtration plant.

At the same time, the aeration plant causes that the raw water is degassed more effectively. In this case, the object is to air the chlorinated solvents such as Trichloroethane, Trichloroethylene and Tetrachloroethylene. These substances have been reduced considerably or completely removed.

Should you have any questions in connection with above, you are welcome to contact us and we hope that our material will give you and your colleagues inspiration as to how to enlarge or improve the waterworks in your area.

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