



## Newsletter

### Ultra-Filtration in Water Treatment Plant

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**OVERVIEW** – There is a continuing decline in the quality of our nation's water supplies; there are also higher consumer standards and increasingly stringent measures for regulating microbiological contaminants and disinfection by-products.



Giardia Spores Trapped on Membrane Surface

### BACKGROUND

The most common method of water clarifying is by using coagulation - flocculation– sedimentation and then follow by filtration using sand filter.



### PROBLEMS

- Large amount of sludge produced.
- Product water quality depends upon raw water quality.

### REQUIREMENTS

- Little foot-print area needed
- Ability to remove organics and micro-organisms
- Minimum energy and maintenance costs.
- Simple to operate, automatic and easy to maintain.
- Less chemicals usage



### SOLUTION

- Ultra-filtration system with 0.1 micron filtration degree
- Automatic by timer.

### BENEFITS

With using **Ultra-Filtration** system, the following benefits can be achieved:

- Consistent water quality**
- Little space / foot print requirement**
- Improves downstream process performance**
- Automatic system**