



# The Leopold® Clari-DAF® BWT System

The Leopold® Clari-DAF® BWT (Backwash Water Treatment) system is a proven and highly effective method of treating spent filter backwash water for achieving the safe reuse recovery of as much as 99.7% of filter backwash water volume or returning it to the environment while lowering your total cost of operation.

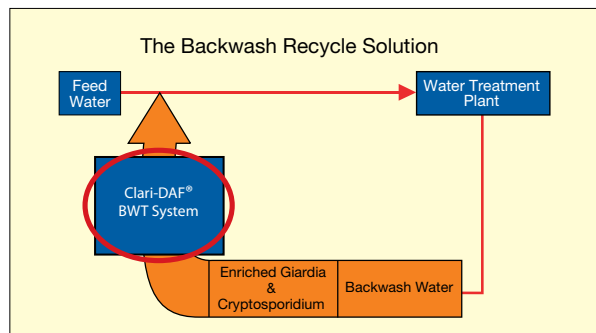
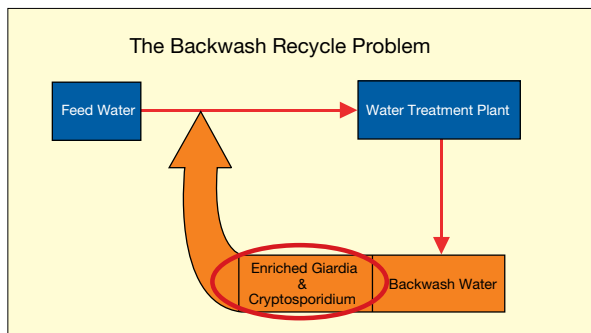
## The Filter Backwash Treatment Problem:

### Increased Concentration of Pathogens

Recovering spent filter backwash water can result in a savings in water resources and expense of original treatment. However, the Environmental Protection Agency (EPA) Filter Backwash Recycling Rule (FBRR), mandated by the Safe Drinking Water Act (SDWA), requires that all recycled spent filter backwash water be treated and returned to the head of the water filtration process because the increased concentration of pathogenic contamination such as Giardia and Cryptosporidium in spent filter backwash water increases the risk of re-introducing these pathogens to the filters and filtered water.

## The Filter Backwash Treatment Solution: The Leopold® Clari-DAF® BWT System

The risk of re-introducing concentrations of pathogens to the plant feedwater can be effectively controlled with the Leopold® Clari-DAF® BWT system. Using the Clari-DAF® BWT system for spent filter backwash water treatment has been shown to reduce Giardia and Cryptosporidium cysts and oocysts to >3.5 log removal. This is accomplished by removing the solids to which pathogenic contaminants can attach. Excellent clarified water is produced (<1.0 NTU) for return to the head of the water filtration process or for discharge into the environment.



### Increased Concentrations of Solids

Many regulatory agencies prohibit the discharge of water plant wastes directly into the environment. Therefore, spent filter backwash water, with its increased concentrations of solids, must be treated before releasing it into lakes, rivers, or streams.

### How the Leopold® Clari-DAF® BWT System Can Lower the Cost of Spent Filter Backwash Water Treatment

No inorganic chemical addition is required because suitable floc has already been created prior to the filter	Lower chemical cost
Only a low dose of polymer (0.1 to 0.3 mg/l) may be required to bring fluffy floc together	Lower chemical cost
High sludge solids concentration (3% to 4%)	Less time and energy to dewater
Lower sludge volume	Less cost to handle

Call Leopold® to learn more about how the Clari-DAF® BWT system can lower your cost of spent filter backwash water treatment.



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