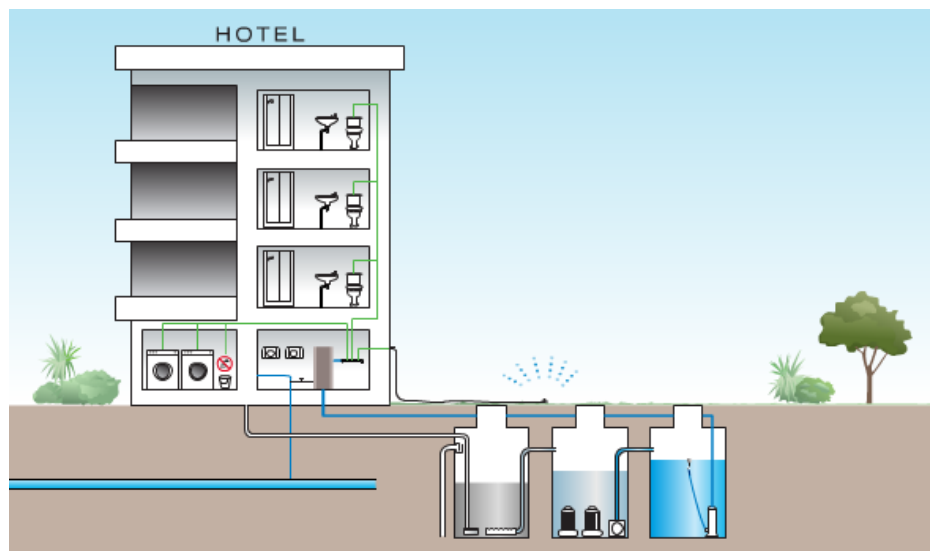


## Grey Water Recycling

Water Utility companies are under increasing pressure to preserve water; as a result they charge new applicants with large usage demands large sums for water services and infrastructure changes. One way to avoid such charges, is to re-use water, whether it be rain water or grey water (bath/shower/clothes washing) again. Rainwater can be collected, filtered and easily used again for toilet flushing and irrigation. However, grey water needs to be cleaned before it can be stored and re-used.



The treatment process is broken down into four stages, with no chemicals used.

- **Pre-treatment** - large particles are taken out of the process by sedimentation
- **Aerobic Treatment** – bio-degradable substances are degraded by cleaning bacteria
- **Membrane Filtration** – particles larger than 0.00005mm are retained by the membrane
- **Clear Water Storage** – water is stored for future use.

### Advantages

- Water can be used for toilet flushing, washing machines, industrial purposes, cooling and irrigation all free of charge.
- Grey water is treated using membrane filtration with biological pre-treatment
- Permanent high water quality due to ISB membrane filtration
- Little space requirement due to compact and flexible construction
- High efficiency due to optimised process according to consumption behaviour
- Long service life with low maintenance due to automated processes and cleaning effect
- No chemical additives needed

### Disadvantages

- Best used at facilities with large amounts of water usage such as hotels.
- System installation can be expensive, but may offset water utility charges and planning restrictions.

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