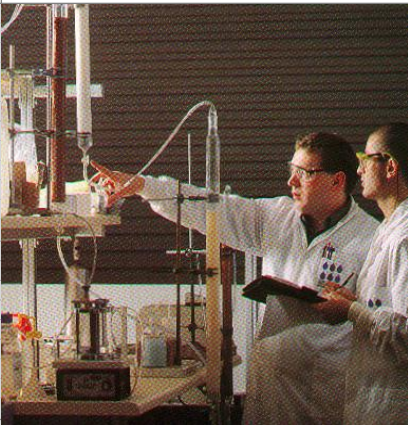
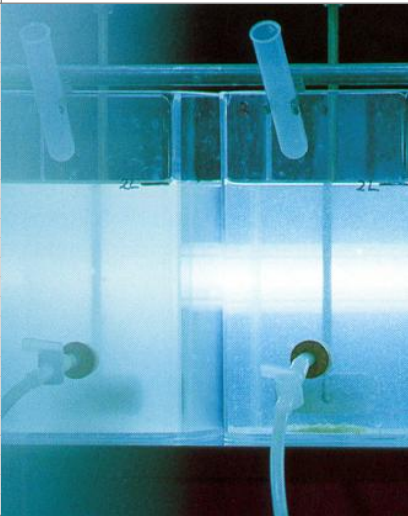




Water Treatment

The AWQC provides a range of investigatory and advisory services associated with water treatment processes to improve drinking water quality. A team of specialists is available for onsite evaluation of efficiency of existing treatment processes or desktop study of proposed plants.



SERVICES OFFERED

- Determining doses of both coagulant and coagulant aids required for effective treatment using sedimentation or flotation jar tests.
- Characterisation of water quality, particularly of the natural organic matter present, to assess impact on treatment.
- Optimisation of treatment processes for pathogen control, particularly *Cryptosporidium*.
- Evaluation of treatment options such as oxidation and activated carbon for removal of soluble micro pollutants such as algal toxins, taste and odour compounds, pesticides and pharmaceuticals.
- Determining disinfectant demand and disinfection by-products for a range of disinfectants, including chlorine, chloramine, ozone and ultra violet irradiation.
- Evaluation of the potential of a water to support bacterial regrowth in a distribution system by measuring bacterial regrowth potential (BRP) and/or biodegradable organic carbon (BDOC).
- Assessing the effectiveness of “point of use” devices for treatment of water at the customer tap.
- Evaluation of water treatment processes using bench scale or pilot plant facilities.

The water treatment research expertise of the AWQC has a recognised world standing. This is strengthened by established links with other research facilities in the United States, France and Germany.

CONSULTANCY PROJECTS

- Determination of coagulation doses using sedimentation and dissolved air flotation (DAF) jar tests and associated disinfection by-product formation for Coliban Water.
- Feasibility of chloramination for the Menindee to Stephens Creek pipeline for the Broken Hill Water Board and for the Mildura WTP for Lower Murray Region.
- Evaluation of proposed Moorabool WTP design for the removal of *Cryptosporidium* and *Giardia* for Barwon Region Water Authority.

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