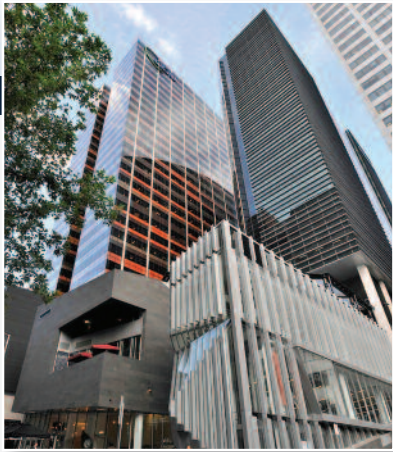


# CBW Office Development - Melbourne

Water Treatment Solution Profile

**WJP**  
brilliant solutions  
for your water!



## Purpose of installation

CBW - Which stands for "Corner of Bourke and William" (Streets) comprises two multi-storey office towers in central Melbourne. WJP Solutions' were engaged to install a black water treatment plant that has contributed to the building attaining a 5 Star (Green Star) rating.

## Use for treated water

The treatment plant incorporates a split-flow design which treats all water to a quality suitable for toilet flushing.

To maximise the amount of treated water recycled overall – and assist in reducing energy consumption – a reverse osmosis process polishes only the quantity of water required by the building for cooling tower top-up.

## WJP Solutions' role

WJP Solutions provided engineering design services prior to installing and commissioning the plant which it now maintains. During the design and construction phase of the project WJP Solutions assisted the project team with the integration of the plant, associated tanks and services

## Technical specifications

Integrated in-building plant

System design capacity – 100,000 litres per day

## Principal elements of the treatment process:

- inlet / coarse screening system (GSS)
- balance tank (fibre-glass)
- Fine Screening (Rotary Drum)
- bio-reactor aerobic tanks (fibre-glass)
- membrane operating system (stainless-steel)
- Other Chemical dosing systems
- chlorine disinfection system
- reverse osmosis (split supply – cooling towers only)
- treated water storage tank/s (Panel Type)
- full PLC / SCADA automation system and BA interface
- automated sludge removal system (to sewer)



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