

# State Netball and Hockey Centre

## Water Treatment Solution Profile



### Purpose of installation

The Victorian State Netball Hockey Centre (SNHC), which opened in January 2001, has two world-class hockey pitches with synthetic grass surfaces that are used for local, interstate and international competition.

Concerned about the amount of potable water wasted in wetting the pitches every day, the SNHC engaged WJP Solutions to design a system that would collect and treat storm water for use in wetting the pitches. The system then recovers this water, and re-treats it, resulting in an exceptionally efficient system for the centre.

### Use for treated water

Wetting of synthetic hockey pitches

### WJP Solutions' role

WJP Solutions provided engineering design services prior to installing and commissioning the plant

### Technical specifications

Gross solids are removed from the harvested water prior to storage through fine mesh gross solids traps. Following this, a cylindrical fibreglass storage system was installed to maximise settling of any smaller sediment within the storage tanks.

Water is pumped, filtered and disinfected before flowing into the existing irrigation break tank. The system has full mains pressure back up supply and incorporates performance monitoring tools such as flow, level turbidity, pH and chlorine levels in the reclaimed supply water.

System design capacity - 66,000 litres per day

### Principal elements of the Process:

- Collection pump wells
- Gross solids trap
- Cylindrical storage tanks (FRP)
- Screen filtration
- UV Treatment
- Chlorine disinfection
- Treated water storage tank



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