

# HARRINGTON PARK 2 & MATER DEI IWCM

STORM (subconsulting to URS) was engaged to develop an Integrated Water Cycle Management Strategy in support of a rezoning application for 700 Ha of urban release area in the Camden area (approx 1,300 lots). Water sustainability targets were developed in consultation with a Project Control Group (Council, DIPNR, Sydney Water and Client Representative) and included: 65% reduction in potable water use; match pre- and post-development stormwater quality and quantity. STORM proposed and assessed various options and identified a preferred option that was modelled and further developed. The strategy comprises:

- ☒ AAA fittings (to reduce consumption of potable water),
- ☒ roof water tanks plumbed into each dwelling (to reduce consumption of potable water, improve water quality and minimise runoff peak flows and volumes),
- ☒ grassed swales (to reduce peak flows and improve water quality),
- ☒ sand filters (to improve water quality),

- ☒ communal stormwater tanks to irrigate grassed swales and public open space such as playing fields (to improve water quality, reduce peak flows and volumes and reduce consumption of potable water),
- ☒ reclaimed water to top up roof water and stormwater tanks (to reduce wastewater from the development and reduce consumption of potable water), and
- ☒ planning controls for landscaping, building siting and design, street layout and design and management of soil and water during construction.

Modelling showed the recommended Strategy is capable of meeting the water conservation target but demonstrated the difficulty in matching stormwater flows (volume and frequency) within a given set of constraints. Nevertheless a significant benefit was demonstrated from the IWCM approach. Camden Council can now make decisions based on the study findings.

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