

WATER SENSITIVE URBAN DESIGN

JAMES HENTY OVAL STORMWATER HARVESTING COLLECTING → TREATING → STORING → REUSING

WHAT IS STORMWATER HARVESTING?

Stormwater is simply rain runoff. Stormwater harvesting is the collection, treatment and storage of stormwater for later reuse and is generally harvested from a drain, pipe or creek. Stormwater runoff transports pollutants from our catchments into local waterways. This stormwater harvesting system traps pollutants and can save over a million litres of drinking water each year by providing an alternative water source for irrigation at James Henty Drive Oval.

HOW DOES IT WORK?

- 1** When it rains, stormwater from the surrounding catchment runs off into the gutters, pits and pipes of the stormwater drainage system. The local main (or trunk) line stormwater pipe is located under James Henty Oval.
- 2** As the stormwater exits the pipe it flows through a Net Tech device that captures and retains larger pollutants such as litter and leaves for later removal during maintenance.
- 3** The water is diverted into a vegetated biofilter basin (or raingarden) designed to filter out smaller pollutants. During high flows water by-passes the basin flowing to Georges Creek in the gully below.
- 4** Water disperses across the biofilter before percolating down through a loamy sand soil filter densely planted with native grasses specially selected to absorb nutrients and micro-pollutants.
- 5** Slotted drainage pipes collect the treated water and direct it into a collection pit which also acts as an overflow point during heavy rainfall.
- 6** The treated water is gravity fed into a 100,000-litre storage tank and when required is pumped uphill to a 20,000-litre irrigation header tank (not far from this sign) where it is used to water the oval.

DID YOU KNOW?

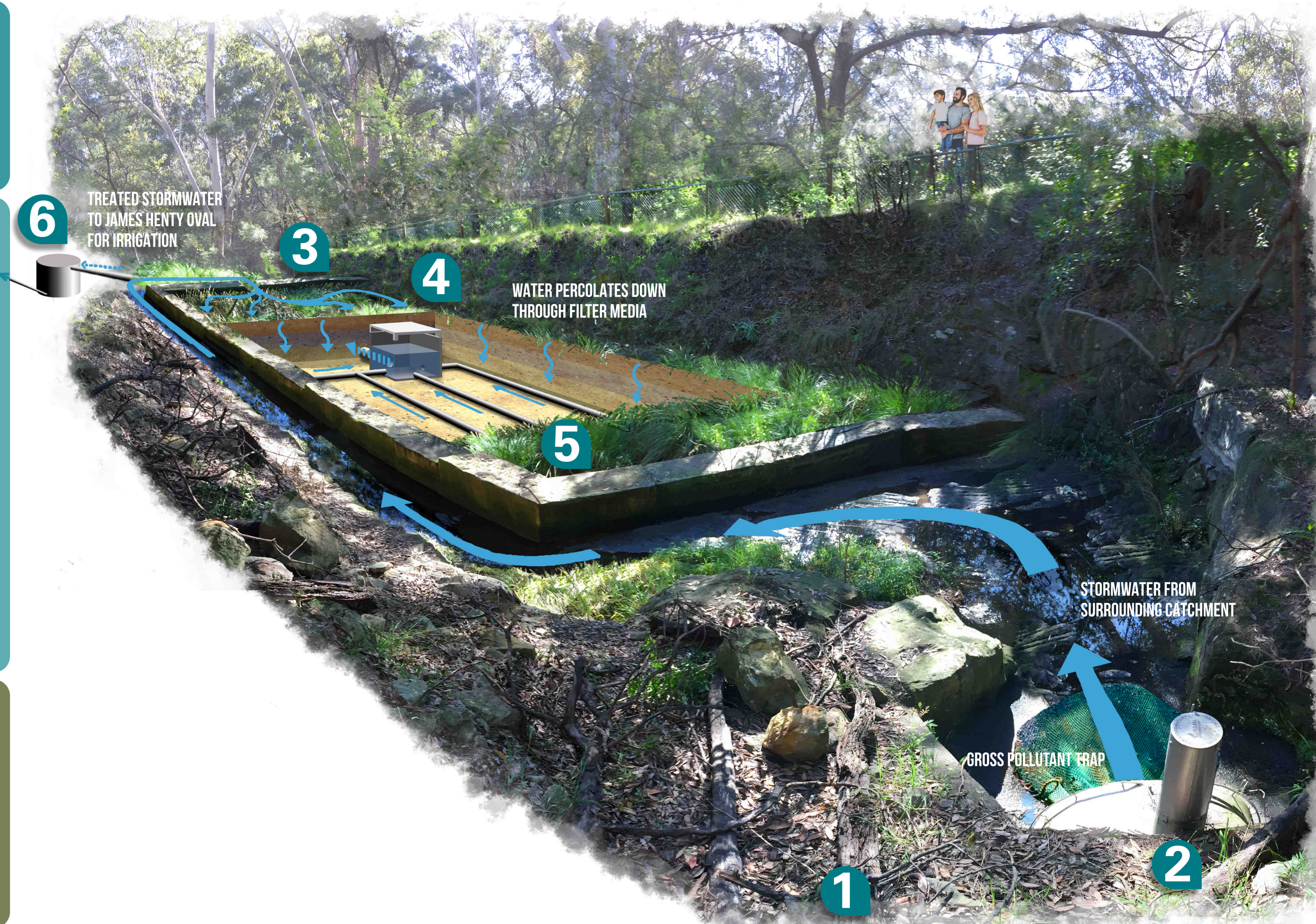
Water sensitive urban design helps protect waterway health.

Stormwater in this catchment flows to the Hawkesbury River via Georges Creek, Pyes Creek and the Berowra Creek estuary.

STORMWATER POLLUTION STARTS WITH YOU!

Litter, cigarette butts, grass clippings, dog poo, car wash detergent, sediment from building sites, fertilisers, pesticides, paint, oil and grease all make our creeks sick.

REMEMBER: THE DRAIN IS JUST FOR RAIN



CARING FOR OUR CATCHMENTS. YOUR CATCHMENTS REMEDIATION RATE.