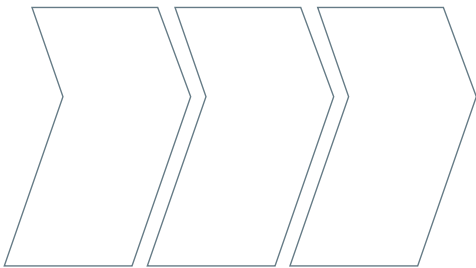


Water sensitive urban design

Soakwells

- Soakwells are very effective in sandy soils.
- They are easy to construct.
- They allow runoff to soak into the ground in the same area it would have prior to urban development, rather than being conveyed away.
- They can be installed after an urban development has been established.
- The soakwell size will depend on the soil type, particularly its infiltration capacity.
- Groundwater levels need to be considered when determining the depth and design of the system. *Looking after all our water needs*
The base must be above maximum or controlled groundwater level.
- Installation will be more difficult if rock or other hard material is present.
- Prevent mosquito breeding by adequate design – no water ponding after 96 hours between November and May in the south-west of Western Australia and throughout the year in the north.
- Sediment control is recommended, particularly during road and lot development, to prevent blockage.
- Specially selected soil filter media could be used to increase nutrient removal capacity.

Treatment train



Design scale

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|--------|------------------------|-------|-----|
| Di ict | P ecinc (Adi i in) | S eep | L 2 |
|--------|------------------------|-------|-----|



Installation, Boronia Ridge, Walpole



Installation, Boronia Ridge, Walpole



Completion, Boronia Ridge, Walpole



Completion, Boronia Ridge, Walpole

Water sensitive urban design

Soakwells

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June 2011

