

XX Planning Scheme

22.0? STORMWATER MANAGEMENT (WATER SENSITIVE URBAN DESIGN)

This policy applies to applications for:

- New buildings
- Extensions to existing buildings which are 50 square metres in floor area or greater.
- A subdivision in a business zone

This policy does not apply to an application for:

- A subdivision of an existing building.

22.0?-1 Policy Basis

This policy:

- builds on the SPPF objective at Clause 12.05-1 and specifically, provides a local response to the 'Coastal areas' strategy at Clause 12.05-2;
- implements the SPPF objective at Clause 12.07-1 and specifically, the "Stormwater management" strategy at Clause 12.07-2;
- responds to the SPPF objective at Clause 15.01-1 relating to the protection of waterways, and
- responds to the SPPF objective at Clause 18.09-1 relating to the stormwater management and protection of the environment.
- Implements the best practice performance objective outlined in the *Urban Stormwater Best Practice Environmental Management Guidelines*, Victoria Stormwater Committee 1999 to achieve the objectives of the State Environment Protection Policy (Waters of Victoria).

Water sensitive urban design (WSUD) is the design of buildings, subdivisions and works to minimise the hydrological impact of urban development on the surrounding environment. WSUD provides the means for treating stormwater run-off in a variety of ways so that the flow is reduced, and the quality of run-off is improved. Stormwater management can take various forms in the urban environment including infrastructure upgrades, streetscape layout changes, piping reconfigurations, storage tanks, and the use of different paving.

22.0?-2 Objectives

- To promote the use of water sensitive urban design, including stormwater re-use.
- To mitigate the detrimental effect of development on downstream waterways, by the application of best practice stormwater management through water sensitive urban design for new development.
- To minimise peak stormwater flows and stormwater pollutants to improve the health of water bodies, including creeks, rivers and bays.
- To reintegrate urban water into the landscape

22.0?-3 Policy

It is policy to:

- Ensure that developments comply with the best practice performance objectives for suspended solids, total phosphorus and total nitrogen, as set out in the *Urban Stormwater Best Practice Environmental Management Guidelines*, Victoria Stormwater Committee 1999 as amended. Currently, these water quality performance objectives require:
 - Suspended Solids - 80% retention of typical urban annual load
 - Total Nitrogen - 45% retention of typical urban annual load
 - Total Phosphorus - 45% retention of typical urban annual load
 - Litter - 70% reduction of typical urban annual load

- Require the use of stormwater treatment measures that improve the quality and reduce the flow of water discharged to waterways, including, but not limited to:
 - collection and reuse of rainwater and stormwater on site
 - vegetated swales and buffer strips
 - rain gardens
 - installation of water recycling systems
 - multiple uses of water within a single manufacturing site
 - direction of flow from impervious ground surfaces to landscaped areas.
- Encourage the use of measures to prevent litter being carried off-site in stormwater flows, including:
 - appropriately designed waste enclosures and storage bins, and
 - the use of litter traps for developments with the potential to generate significant amounts of litter.

22.0?-4 Application requirements

An application must be accompanied by a Water Sensitive Urban Design Response including, as appropriate:

- A site layout plan showing the location of proposed stormwater treatment measures.
- Demonstrated compliance with the best practice performance objective set out in the *Urban Stormwater Best Practice Environmental Management Guidelines*, Victoria Stormwater Committee 1999, such as a report from an industry accepted performance measurement tool such as STORM or MUSIC.
- Design details, such as cross sections, to assess the technical effectiveness of the proposed stormwater treatment measures.
- A site management plan which details how the site will be managed through construction and which sets out future operational and maintenance arrangements.

If the water quality performance objectives set out in the *Urban Stormwater Best Practice Environmental Management Guidelines*, Victoria Stormwater Committee 1999 are not met, an application must include justification for how the development meets the objectives of this policy.

22.0?-5 Decision guidelines

Before deciding on an application, the responsible authority will consider, as appropriate:

- The extent to which the development meets the objectives and requirements of this policy
- The Water Sensitive Urban Design Response
- Whether the application meets the best practice performance objective and treatment measures.
- Whether the proposal is designed and incorporates works to maintain, or improve, the quality of stormwater within or exiting the site.
- Whether the proposal will significantly add to the stormwater discharge or adversely affect water quality entering the drainage system.
- Opportunities for water conservation and reuse that influence the use of water sensitive urban design.
- The level of ongoing management required to achieve and maintain the desired stormwater quality measures that will be used during the construction phase to prevent a loss of stormwater quality as a result of building activities, such as silt traps.

22.0?-6 Reference documents

Water Sensitive Urban Design Guidelines, Melbourne Water, 2008.

State Environment Protection Policy (Waters of Victoria), Environment Protection Authority, 2003.

Urban Stormwater Best Practice Environmental Management Guidelines, Victoria Stormwater Committee Publishing, 1999.

Water Sensitive Urban Design – Engineering Procedures: Stormwater, Melbourne Water, CSIRO Publishing 2005.

22.0?-7 Expiry

[date of adoption + 2 years] or when superseded by Building Code of Australia Regulations, whichever happens first.