# Broad Scale Development Self-Assessment Checklist - Water Sensitive Urban Design

The City of Newcastle

This checklist is a self-assessment checklist against the design criteria for water sensitive design in Newcastle Development Control Plan 2012 – Section 7.06 Stormwater and Section 7.07 Water Efficiency. A completed checklist is a mandatory submission requirement for developments of a scale greater in intensity than dual occupancies. However a completed checklist may be requested for other developments in particular circumstances.

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|---|---|
| **Site/Project Name:** | |
| **Applicant:** | |

| ITEM | | Y | N | NA |
|---|---|---|---|---|
| **1** | **Integration of the whole water cycle** | | | |
| | Stormwater Management and WSUD principles have been integrated into the proposed development. | ☐ | ☐ | ☐ |
| | Opportunities for on site water re-use have been identified and utilised. | ☐ | ☐ | ☐ |
| **2** | **Management and minimisation of hydrologic impacts** | | | |
| | Hydrologic Objectives have been identified and addressed (impervious areas shown, design events indicated, conveyance requirements identified, peak flows shown, appropriately sized on-site retention etc.). | ☐ | ☐ | ☐ |
| | High flows have been catered for (bypass structures, overland flow paths, overflow disposal to legal point of discharge shown etc.). | ☐ | ☐ | ☐ |
| | Impacts upon receiving environment have been determined and minimised (erosion protection, dissipation of concentrated flows). | ☐ | ☐ | ☐ |
| **3** | **Management and minimisation of ecological impacts** | | | |
| | Water Quality Management Objectives have been identified and addressed (MUSIC modelling results submitted, site discharge controls in accordance with DCP) | ☐ | ☐ | ☐ |
| | A treatment train approach has been developed where practicable (larger developments). | ☐ | ☐ | ☐ |
| | Appropriate use of source controls to minimise the generation of excessive runoff/pollution at or near its source. | ☐ | ☐ | ☐ |
| **4** | **Maintenance and/or enhancement of visual and social amenity** | | | |
| | WSUD has been integrated into landscape form. | ☐ | ☐ | ☐ |
| | Multiple use assets and/or corridors are proposed (verge side swales, bio-retention ponds, constructed wetlands etc.). | ☐ | ☐ | ☐ |
| | Public health and safety issues considered and addressed (batter slopes, water depths/velocities, stagnant water etc.). | ☐ | ☐ | ☐ |
| **5** | **Minimisation of whole of life asset costs** | | | |
| | Maintenance requirements are considered (maintenance plans provided, maintenance access point for vehicles identified). | ☐ | ☐ | ☐ |
| | Asset life cycle cost determined. | ☐ | ☐ | ☐ |
| | Asset ownership and responsibility defined and agreed. | ☐ | ☐ | ☐ |
| | Cost effectiveness of strategy evaluated and maximised. | ☐ | ☐ | ☐ |
| **6** | **Provision of alternative sources of water/mains water use reduced** | | | |
| | Rainwater harvesting consistent with expected reuse opportunity & DCP (number of people using site, type of development etc.). | ☐ | ☐ | ☐ |
| | Water tank reticulated to new toilets, laundry and taps where appropriate (water reuse fit for purpose). | ☐ | ☐ | ☐ |
| | Water reused in industrial/commercial developments where practicable. (e.g. vehicle washing, landscaping, irrigation). | ☐ | ☐ | ☐ |