

Conceptual Design

Checklists to assist in the assessment of Clause 56.07-4

Introduction

This checklist relates to the conceptual design for Water Sensitive Urban Design (WSUD) elements incorporated into a residential subdivision. This detail is assessed prior to issuing or refusing a permit. This checklist comprises two parts:

- i. The first part provides a list of considerations to assist in the decision of whether sufficient information has been submitted to enable council to adequately assess the application under Clause 56.07-4.
- ii. The second part provides a list of considerations to assist councils in determining whether the submitted design satisfies the requirements of Clause 56.07-4.

Each statement should be satisfied before proceeding. If the required information has not been submitted, Council should request further information from the applicant. This checklist is a recommendation only and it is recognised that councils may have a checklist of local requirements that should be followed.

Sufficient information checklist

	Yes	No
Have plans of the WSUD system been submitted?		
Do the plans provide enough information to enable council to assess the acceptability of the proposed system?		
<ul style="list-style-type: none"> - type, location, area and depth of WSUD treatment; and - relationship between the development, local drainage system, and WSUD system, including run off routing 		
Has appropriate stormwater quality modelling been submitted? i.e. MUSIC or STORM modelling		
Has appropriate flow (hydraulic) modelling been submitted?		
Has an indicative Site Management Plan been submitted? (refer to Clause 56.08 requirements)		
Have indicative management arrangements for the WSUD system been provided, including:		
<ul style="list-style-type: none"> - maintenance responsibilities, requirements and indicative costs; and - asset handover arrangements, where appropriate, including defect liability and timeframes 		

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Yes

No

Is the design deliverable?

Consider:

- hydraulic functionality (e.g. flow routing and capacity, also considering the receiving drainage system downstream);
- WSUD treatment sizing relative to catchment area;
- space requirements (including impact on dedicated open space and landscaping areas);
- structural issues (e.g. WSUD impact on nearby roads/buildings)
- public safety (e.g. batter slope gradient, step-downs, access to water bodies, etc.); and
- maintenance requirements (e.g. access for staff/machinery, slope)

Is the flow modelling consistent with the submitted plans?

Is the stormwater quality model consistent with the submitted plans?

Have appropriate parameters been used in the stormwater quality model?

Tip - if within Melbourne Water's water management boundary refer Melbourne Water's MUSIC Guidelines which can be downloaded from www.melbournewater.com.au

Is the Drainage/WSUD Plan consistent with the other plans (e.g. site layout or landscaping plans) submitted?

Does the design meet the Clause 56.07 (USBEPMG) water quality targets?

That is, a reduction in typical urban annual loads of:

- 80% for Total Suspended Solids;
- 45% for Total Nitrogen;
- 45% for Total Phosphorous; and
- 70% for Gross Pollutants?

Are discharges for 1.5 year Annual Recurrence Interval (ARI) maintained at pre-development levels?

Does the design satisfactorily provide every lot with drainage?

Has the application been referred to all the appropriate external parties?

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Yes

No

Has the application been referred to all the appropriate parties internally?

For example:

- Engineering;
- Parks/Open space;
- Environment;
- Landscape/Urban Design; and
- Maintenance/Asset Management (strongly recommended where council will be inheriting the proposed WSUD asset)

Does the design comply with all Council-specific guidelines / requirements?

Does the indicative Site Management Plan submitted satisfy the requirements of Clause 56.08 and adequately protect the WSUD and environment from construction impacts?

Are the indicative management arrangements for maintenance and handover of the WSUD system acceptable to council?