



15.3 ANNEXURE C – Stormwater management plan checklist

The information requested on this form must be submitted to Council with stormwater management plans when lodging your Development Application and Construction Certification. Please tick and sign the appropriate box and attach the information as requested.

Property and Development Details			
Street Address	Unit No.	Street No.	Street
	Suburb		Postcode
Type of Development			
Designer Details			
Ms/Mr/Mrs/ Other (please circle)	Given Name(s)		Surname
	Mobile No.		Other No.
	Email Address		
Street Address	Unit No.	Street No.	Street
	Suburb		Postcode
Company Name (if applicable)			
Mailing Address (if different)	Unit No.	Street No.	Street
	Suburb		Postcode

I certify that the drainage design is in accordance with Waverley Council's Water Management Technical Manual (WMTM) and Development Control Plan (DCP) and that I am a suitably qualified and practicing Engineer.

Design Certification	
Designer's Name	Signature
Professional Qualifications	Date / /
Accreditation Organisation	Accreditation Reference
Contact Details (if different to designer above)	

Privacy Statement

The personal information provided on this form (including your name and other details) will be handled in accordance with the Privacy and Personal Information Protection Act 1998 and may be available to the public under various legislation. Refer also to the Privacy Statement on Council's website.



Stormwater Management Plan Checklist

Property Address _____ Date / /

Mark table section as applicable where the designer is unable to comply with a WMTM or DCP requirement. Additional information is to be provided to Council to justify the non-compliance. Incorrectly or falsely completing this checklist may lead to rejection/delay of the Development Application/Construction Certificate.

Manual Requirements	Applicable (Yes/No)	Provided (Yes/No)	If no, Reason for variation
Site Plan			
Is the plan consistent with the architectural plans and landscape plans (no conflict between stormwater infrastructure, trees to be retained or planted and landscaped areas including deep soil)?			
Pre-Development impervious area calculation			
Post-Development impervious area calculation			
North arrow			
Contours and spot levels			
Building envelope			
Habitable and non-habitable finished floor levels (FFLs).			
Easements/Major Services			
Roof Drainage Systems			
Roof catchment			
Roof runoff			
Eave, box and valley gutter size and details			
Downpipe, sizing, location & spacing			
Surface Drainage Systems			
Pipe size			
Pipe grade			
Pipe class			
Pipe cover			
Pipe flow			
Pit/inspection opening location			
Pit/inspection opening size			



Manual Requirements	Applicable (Yes/No)	Provided (Yes/No)	If no, Reason for variation
Surface Drainage Systems			
Pit/inspection opening invert levels			
Pit/inspection opening surface levels			
Pit/inspection opening detail/section			
Sediment control pit at boundary			
Grated trench drain across garage entrance/ driveway/street boundary within private property			
Rainwater Reuse Systems			
BASIX or rainwater tank requirements			
Rainwater tank location			
Rainwater tank overflow detail			

THERE IS NO REQUIREMENT TO FILL OUT THE CHECKLIST PAST THIS POINT UNLESS

Your development is:

- On flood affected land
- You have a Council/Sydney Water owned stormwater pipe traversing the site.

OR

You require any of the following systems:

- On-site stormwater detention
- Infiltration system
- Charged system
- Pump out system
- Interallotment drainage
- Water quality controls



Manual Requirements	Applicable (Yes/No)	State the value or (Yes/ No) where applicable	If no, please provide a reason
Site Plan			
What is the total site area (m ²)?			
Have you checked to see if the property is on land identified as flood affected?			
Does the property fall to the street?			
Has the location of OSD, infiltration or pump out system been provided?			
Has a catchment plan clarifying the impervious and pervious draining to and bypassing the proposed system(s) been provided?			
Have you checked to ensure the FFLs noted in the stormwater management plan are consistent with the FFLs noted in the architectural drawings?			
Additional questions for flood affected land			
Have flood levels been obtained from Council?			
Has a flood impact assessment prepared by a suitably qualified and practising Engineer with experience with floodplain risk management and two-dimensional flood modelling been provided?			
If flood modelling is required, has Council's TUFLOW model been utilised as per the DCP?			



Manual Requirements	Applicable (Yes/No)	State the value or (Yes/ No) where applicable	If no, please provide a reason
Additional questions for low level properties (See Section 4 for further guidance)			
Has an honest and reasonable attempt been made to acquire an easement through any of the downstream properties or demonstrated that all avenues to establish an easement be impractical or unviable?			
If the site already benefits from an existing drainage easement, has a recent Title Search been provided?			
Additional questions for on-site stormwater detention (OSD) systems (See Section 6 for further guidance)			
Which of the following have been utilised: an above ground OSD tank (only allowed for detached, semi-attached or attached dwellings or secondary dwellings), above ground OSD basin or below ground OSD tank?			
Has the OSD system been sized to cater for the 1% AEP storm event?			
What is the total impervious area (m ²) in the pre-development state?			
What is the total impervious area (m ²) in the post-development state?			
What is the permissible site discharge (PSD) under the undeveloped site conditions (calculated using the 20% AEP event rainfall data)?			
Is the PSD less than 25 L/s?			
What is the total area (m ²) bypassing the OSD system?			
What is the total impervious area (m ²) bypassing the OSD system?			
What is the rate of runoff bypassing the OSD system (calculated using the 1% AEP event rainfall data)?			
What is the total area (m ²) draining to the OSD system?			
What is the total impervious area (m ²) draining to the OSD system?			



Manual Requirements	Applicable (Yes/No)	State the value or (Yes/ No) where applicable	If no, please provide a reason
Additional questions for on-site stormwater detention (OSD) systems			
What is the proposed volume of the OSD system (m ³)?			
What is the depth from the top water level to the centreline of the orifice (m)?			
What is the diameter of the orifice (mm)?			
What is the discharge rate from the OSD system?			
Is the summation of the discharge rate from the OSD system and rate of runoff bypassing the OSD system less than the PSD?			
Has the OSD system been designed without a high-early discharge (HED) chamber?			
Has a plan view of the OSD system that notes its dimensions and the level of the base at each extent been provided?			
Has at least one section of the OSD system been provided and drawn at a suitable scale?			
Does the section note/depict the following (where applicable): <ul style="list-style-type: none"> • Size of access grate(s) • Surface level • Soffit level • Top water level • Centreline of orifice • Invert of orifice • Diameter of orifice • Base with 1% fall • Base at same level as centreline of orifice • Trash screen • Sump with weepholes 			
What is the FFL of the habitable areas of the dwelling?			
What is the FFL of the non-habitable areas of the dwelling?			
What is the soffit of the system?			
What is the top water level of the OSD system?			



Manual Requirements	Applicable (Yes/No)	State the value or (Yes/ No) where applicable	If no, please provide a reason
Additional questions for on-site stormwater detention (OSD) systems			
Has 150 mm and 300 mm freeboard been provided to the non-habitable and habitable areas of the building respectively?			
Is the surface level of the pit(s) upstream at least 100 mm higher than the top water level?			
Has an overflow weir or overflow pipe laid horizontally across the wall at the nominated overflow invert level been provided?			
What is the centreline level of the orifice?			
Is the invert level of the orifice/outlet pipe at least 100 mm above the HGL at the discharge point?			
Is a detail of the orifice plate provided?			
Has a Confined Spaces sign, OSD Plaque and OSD Warning sign been provided?			
Is a detail of a trash screen provided?			
Has the volume of the above ground OSD basin been increased by 20% (only applicable if landscaped)?			
Has subsoil drainage been provided for the above ground OSD basin (only applicable if landscaped)?			
Have at least two access grates been provided (only applicable if below ground OSD tank)?			
Have step irons been provided for the below ground OSD tank (when depth is > 1.2 m)?			
Additional questions for Infiltration system (See Section 4.7 for further guidance)			
Is the design supported by a geotechnical report?			
What is the infiltration rate?			
Has the rate used to size the infiltration system been reduced by 50%?			
What is the volume of the infiltration system?			



Manual Requirements	Applicable (Yes/No)	State the value or (Yes/ No) where applicable	If no, please provide a reason
Additional questions for Infiltration system			
Has the roof guttering and downpipe system been designed to collect the 1% AEP rainfall event and pipe it to the absorption system?			
Has a plan view of the infiltration system that notes its dimensions been provided?			
Has a section drawn at a suitable scale been provided?			
Is silt arrestor pit proposed upstream of the system?			
Is the distance between the infiltration system and the property boundary compliant?			
Has a registered Structural Engineer determined the minimum distance to structural footings?			
Is the infiltration system at least one metre away of any Sydney Water Sewer main?			
Additional questions for charged system (See Section 4.8 for further guidance)			
Are all gutters, downpipes in the system designed to cater for a 1% AEP event?			
Are the levels of the roof gutter noted?			
Is there at least a difference of 2.0 metres in height between the roof gutter and the surface level of the discharge pit at the property boundary?			
If previously answered no, has a hydraulic grade line (HGL) analysis been undertaken?			
Is there gravity flow from the property boundary to the street kerb and gutter?			
Additional questions for pump out system (See Section 4.9 for further guidance) <i>Note: if the pump out system is acting as an OSD system, please fill out the questions under the OSD section as well</i>			
What is the volume of the pump out system?			
What is the discharge rate per pump?			
Have at least two pumps been provided?			



Manual Requirements	Applicable (Yes/No)	State the value or (Yes/ No) where applicable	If no, please provide a reason
Additional questions for pump out system			
Are the pumps operating alternatively or one duty and one standby?			
Does the collection system for the pump out system incorporate buffer storage as recommended by the pump manufacturer or a suitably qualified practitioner?			
What is the additional storage volume provided?			
Has consideration of the consequences of a power failure been made when sizing the buffer storage?			
Is an alarm system comprising of basement pump-out failure warning sign together with a flashing strobe light and siren installed at a clearly visible location at the entrance to the basement in case of pump failure provided?			
In the event of failure, is an overland flow path provided?			
Have full hydraulic details and pump manufacturers specifications been provided?			
Is the registered proprietor prepared to indemnify Council from all claims for damages arising from the failure of the pump system?			
Ancillary (where applicable)			
Is a maintenance schedule for the stormwater drainage system provided?			
Have you checked to see if a Council/Sydney Water owned stormwater pipe traverses the property or is within proximity to the site?			
If construction of new stormwater infrastructure within Council land is proposed, has a long section of the proposed pipeline been provided?			
Does the development require a rainwater reuse system as per BASIX or Section 7 of the WMTM?			
Have water quality targets been met (see Section 10 of WMTM for further guidance)?			