

Water Management Referral Response

Application Number:	DA2021/2257
Date:	23/12/2021
To:	Maxwell Duncan
Land to be developed (Address):	Lot 100 DP 1069144 , 75 The Corso MANLY NSW 2095 Lot 101 DP 1069144 , 75 The Corso MANLY NSW 2095 Lot 102 DP 1069144 , 75 The Corso MANLY NSW 2095 Lot 1 DP 1034722 , 42 North Steyne MANLY NSW 2095

Reasons for referral

Council's Water Management Officers are required to consider the likely impacts.

Officer comments

The proposal was assessed under the current creek and water management legislation framework, the relevant parts of the LEP, DCP and Council Water Management for Development Policy.

The relevant water management Policy principles are:

- Improve the quality of water discharged to our natural areas to protect the ecological and recreational condition of our, beaches, waterways, riparian areas and bushland.
- Water sensitive urban design measures will be integrated into the built form to maximise liveability and reduce the impacts of climate change e.g. urban heat island effect and intensified rainfall events.
- Reduce the consumption of potable water by encouraging water efficiency, the reuse of water and use of alternative water sources.

The proposed development is for substantial alterations and additions.

The drainage plan is showing the proposed stormwater network including a sediment pit. The stormwater runoff generated by the hard surfaces is piped to existing Council stormwater system to the West and to the kerb to the East of the building.

The project is subject to Council Water Management for Development Policy stormwater quality objectives.

The supplied documentation is not giving enough technical details on the proposed Stormwater Water quality management, no water quality model and report have been supplied.

The project is not demonstrating compliance with the stormwater quality objectives, likely general water quality objectives (table 5).

23/12/2021

The development application is showing consideraion of stormwater managemnent however Design of Stormwater condition are required prior the construction certification to demonstrate compliance with Council Water Management for Development Policy for water quality.

Superseded

~~Additional information will be required to cover the design of the stormwater treatment chain.~~

~~As per the policy Standards of Design, Council expect a stormwater management plan and report supported by a water quality model (refer Council guidelines). MUSIC model files (or equivalent) are to~~

~~be provided to council for review.~~

The proposal is therefore supported.

Note: Should you have any concerns with the referral comments above, please discuss these with the Responsible Officer.

Recommended Water Management Conditions:

**CONDITIONS TO BE SATISFIED PRIOR TO THE ISSUE OF THE CONSTRUCTION
CERTIFICATE**

Detailed Design of Stormwater Treatment Measures

A certificate from a Civil Engineer, stating that the stormwater treatment measures have been designed in accordance with Council's Water Management for Development Policy.

The certificate must refer to the stormwater management plan (drawings for construction) and a stormwater management summary letter.

The treatment measures shall include a water sensitive urban design (WSUD) with the creation of a treatment chain with promotion of water reuse.

Filtration cartridges are acceptable if forming part of a treatment chain. A rainwater tank is highly recommended with associated reuse (internal, irrigation).

The stormwater water quality system system is to be sized for all proposed modified catchment area and modified stormwater drainage.

A stormwater management summary letter shall include the water quality model results (MUSIC or equivalent) and describe the design rational and proposed sizing.

The certificate shall be submitted to the Certifying Authority prior to the release of the Construction Certificate.

Reason: Protection of the receiving environment.

CONDITIONS TO BE COMPLIED WITH DURING DEMOLITION AND BUILDING WORK

Substitution of Stormwater Treatment Measures

The substitution of an "equivalent" device for the stormwater treatment measure approved under the Development Consent must submitted to the Principal Certifying Authority for approval prior to installation.

Reason: To ensure stormwater is appropriately managed and in accordance with the Water Management for Development Policy.

**CONDITIONS WHICH MUST BE COMPLIED WITH PRIOR TO THE ISSUE OF THE
OCCUPATION CERTIFICATE**

Positive Covenant, Restriction as to User and Registration of Encumbrances for Stormwater Treatment Measures

A positive covenant shall be created on the title of the land requiring the proprietor of the land to maintain the stormwater treatment measures in accordance with the standard requirements of Council, the manufacturer and as required by the Stormwater Treatment Measures Operation and Maintenance

Plan.

A restriction as to user shall be created on the title over the stormwater treatment measures, restricting any alteration to the measures.

The terms of the positive covenant and restriction as to user are to be prepared to Council's standard requirements (available from Council) at the applicant's expense and endorsed by the Northern Beaches Council's delegate prior to lodgement with the Department of Lands. Northern Beaches Council shall be nominated as the party to release, vary or modify such covenant.

A copy of the certificate of title demonstrating the creation of the positive covenant and restriction as to user is to be submitted to the Principal Certifying Authority prior to the issue of any Occupation Certificate.

Reason: To identify encumbrances on land, ensure ongoing maintenance, and ensure modification to the stormwater treatment measures is not carried out without Council's approval.

Stormwater Treatment Measures Operation and Maintenance Plan

An Operation and Maintenance Plan is to be prepared to ensure the proposed stormwater treatment measures remain effective.

The Plan must be attached to the Positive Covenant (and the community or strata management statement if applicable) and contain the following:

1. Detail on the stormwater treatment measures:
 - a) Work as executed drawings
 - b) Intent of the stormwater treatment measures including modelled pollutant removal rates
 - c) Site detail showing catchment for each device
 - d) Vegetation species list associated with each type of vegetated stormwater treatment measure
 - e) Impervious area restrictions to maintain the water balance for the site
 - f) Funding arrangements for the maintenance of all stormwater treatment measures
 - g) Identification of maintenance and management responsibilities
 - h) Maintenance and emergency contact information
2. Maintenance schedule and procedure - establishment period of one year following commissioning of the stormwater treatment measure:
 - a) Activity description, and duration and frequency of visitsAdditionally for vegetated devices:
 - b) Monitoring and assessment to achieve an 80 percent survival rate for plantings
 - c) Management of weeds, pests and erosion, with weed and sediment cover limited to a maximum of 5 percent of the total area of the stormwater treatment measure
3. Maintenance schedule and procedure - ongoing
 - a) Activity description, and duration and frequency of visits
 - b) Routine maintenance requirements
 - c) Work Health and Safety requirements
 - d) Waste management and disposal
 - e) Traffic control (if required)
 - f) Renewal, decommissioning and replacement timelines and activities of all stormwater treatment measures (please note that a DA may be required if an alternative stormwater treatment measure is proposed)
 - g) Requirements for inspection and maintenance records, noting that these records are required to be maintained and made available to Council upon request.

Details demonstrating compliance shall be submitted to the Principal Certifying Authority prior to the release of the Occupation Certificate.

Reason: Protection of the receiving environment.

ON-GOING CONDITIONS THAT MUST BE COMPLIED WITH AT ALL TIMES

Maintenance of Stormwater Treatment Measures - Major

Stormwater treatment measures must be maintained at all times in accordance with the Stormwater Treatment Measure Operation and Maintenance Plan, manufacturer's specifications and as necessary to achieve the required stormwater quality targets for the development.

Vegetated stormwater treatment measures must maintain an 80 percent survival rate of plantings and limit weed cover to no more than 10 percent of the total area of the stormwater treatment measure. Filtration Cartridges must be maintained as per Operation and Maintenance Plan, manufacturer's specifications and as necessary to achieve the required stormwater quality targets for the development.

Where replacement cartridges or other necessary components for the system become unavailable, an alternative system is required to be retrofitted into the development to achieve an equivalent pollutant reduction outcome. Evidence supporting the replacement must be retained on site and made available to Council as required.

Northern Beaches Council reserves the right to enter the property and carry out appropriate maintenance of the device at the cost of the property owner.

Reason: Protection of the receiving environment.