

## Water Management Referral Response

<b>Application Number:</b>	DA2019/1280
<b>To:</b>	Lashta Haidari
<b>Land to be developed (Address):</b>	Lot 3B DP 164259 , 62 Beaconsfield Street NEWPORT NSW 2106 Lot 4A DP 159498 , 11 Queens Parade NEWPORT NSW 2106 Lot 3A DP 164259 , 9 Queens Parade NEWPORT NSW 2106 Lot 2 DP 209106 , 7 Queens Parade NEWPORT NSW 2106 Lot 5A DP 158658 , 13 Queens Parade NEWPORT NSW 2106 Lot 4B DP 159498 , 60 Beaconsfield Street NEWPORT NSW 2106

### Reasons for referral

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

### Officer comments

This application has been assessed under  
 Pittwater DCP B5.9 - Water Quality  
 Pittwater DCP B8.2 - Sediment and Erosion Control

The applicant provided additional notes and a MUSIC model, which satisfied initial concerns about the methodology for stormwater treatment. While the proposed treatment train does not maximise opportunities to reduce runoff through evaporation and evapotranspiration (and to some degree through infiltration), the proposed system using a suspended bio-retention basin and SPEL filters is now regarded as satisfactory. The information about how maintenance of the basin and filters is expected to occur should be included in the operation and maintenance manual for each, as it will be of significant use to the strata manager/committee.

Sediment and erosion controls must be installed prior to demolishing any buildings on site and maintained until all work is complete and groundcover re-established.

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 the plans prepared by NB Consulting Engineers dated October 2019.

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 Measure**

The substitution of an "equivalent" device for the stormwater treatment measure approved in the Development Application process must first be approved by the Principal Certifying Authority.

Details must be submitted to the Principal Certifying Authority for approval prior to installation.

Reason: To ensure stormwater is appropriately managed.

**Installation and Maintenance of Sediment and Erosion Control**

All Site drainage and sediment and erosion control works and measures as described in the Soil and Water Management Plan and any other pollution controls, as required by these conditions shall be implemented prior to commencement of any other works at the Site.

Erosion and sediment controls are to be adequately maintained and monitored at all times, particularly after periods of rain, and shall remain in proper operation until all development activities have been completed and vegetation cover has been re-established across 70 percent of the site, and the remaining areas have been stabilised with ongoing measures such as jute mesh or matting.

Reason: Protection of the receiving environment

**Dewatering Management**

Discharge must achieve the following water quality targets in addition to any conditions/documentation of this consent and legislation including Protection of The Environment Operations Act 1997 and Contaminated Lands Act 1997.

Parameter	Criterion	Method	Time Prior to Discharge
Oil and grease	No visible	Visual inspection	<1 hour
pH	6.5- 8.5	Probe/meter	<1 hour
Total Suspended Solids (TSS)	<50mg/L	Meter/grab sample measures as NTU	<1 hour

*NOTE: The correlation between NTU and TSS must be established by a NATA accredited laboratory prior to the commencement of dewatering activities.*

All records of water discharges and monitoring results are to be documented and kept on site. Copies of all records shall be provided to the appropriate regulatory authority, including Council, upon request.

Tailwater must be discharged to the nearest stormwater pit in accordance with Council's Auspec1 Design Manual and must not spread over any road, footpath and the like. Discharge to the kerb and gutter will not be accepted.

Reason: Protection of the receiving environment.

### **Protection of stormwater treatment measures during construction**

Until the development site has been fully stabilised in 90 percent of the catchment area for the stormwater treatment measures, measures that incorporate filter media and plantings must not be completed nor filter devices installed. Alternatively, completed/installed stormwater treatment measures must be kept offline until this milestone is reached.

Reason: Protection of stormwater treatment measures.

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

### **Certification for the Installation of Stormwater Quality System**

A certificate from a Civil Engineer, who has membership to Engineers Australia and the National Engineers Register must be provided, stating that the stormwater treatment measures have been installed in accordance with the plans prepared by NB Consulting Engineers dated October 2019. The certificate must confirm that stormwater treatment devices are completed, online, in good condition and are not impacted by sediment.

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

Reason: Protection of the receiving environment.

### **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 visits Additionally 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.

### **Works as Executed Drawings - Stormwater Quality System**

Works as Executed Drawings for the stormwater quality system must be prepared in accordance with Council's Guideline for Preparing Works as Executed Data for Council Stormwater Assets.

The drawings shall be submitted to the Principal Certifying Authority prior to the release of the Occupation Certificate.

Reason: Protection of the receiving environment.

### **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 interim / final 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.

### **Strata Management Statement - stormwater treatment measures**

The Strata Management Statement must specifically list the stormwater treatment measures that will be maintained under strata title. The statement must also include the Stormwater Treatment Measure Operation and Maintenance Plan.

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

Reason: To ensure maintenance of all stormwater management assets and protection of the receiving environment.

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

### **Maintenance of Stormwater Treatment Measures**

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.

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