

## Water Management Referral Response

<b>Application Number:</b>	DA2024/0499
<b>Proposed Development:</b>	Demolition works and construction of three residential flat buildings
<b>Date:</b>	28/05/2024
<b>To:</b>	Adam Croft
<b>Land to be developed (Address):</b>	<p>Lot 1 DP 213608 , 120 Frenchs Forest Road West FRENCHS FOREST NSW 2086</p> <p>Lot 2 DP 213608 , 118 Frenchs Forest Road West FRENCHS FOREST NSW 2086</p> <p>Lot 14 DP 25713 , 11 Gladys Avenue FRENCHS FOREST NSW 2086</p> <p>Lot 24 DP 25713 , 116 Frenchs Forest Road West FRENCHS FOREST NSW 2086</p>

### Reasons for referral

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

### Officer comments

Supported

This application was assessed in consideration of:

- Supplied plans and reports;
- Northern Beaches Water Management for Development Policy (WM Policy), and;
- Relevant LEP and DCP clauses;

The proposal is for demolition of houses and construction of three residential flat buildings.

Section 4.0 of the WMD Policy applies. Water sensitive urban design (WSUD), water reuse and infiltration into the soil, and the resulting quality of stormwater leaving the site are interconnected concepts that guide a merit-based assessment under the section.

The proposed stormwater treatment chain includes rainwater tank, Atlan Stormsacks, and Atlan Filter vault with cartridges. It is noted that the proposal exceeds the required amount of deep soil. Planter Boxes are included but not as part of the stormwater treatment chain.

Section 4.1 of the WMD Policy applies. Under this section the proposal must meet Table 5 – General Stormwater Quality Requirements. A stormwater plan has been provided including the layout and output from MUSIC modelling. On review, no objections regarding water quality modelling.

Groundwater. A geotechnical report has been provided which indicates the proposal does not intercept any standing water table. Seepage may be expected following rainfall. Please be aware that a Council dewatering permit application must be made for any dewatering of groundwater, or for expected multiple instances or continuous dewatering of tailwater. The water to be discharged must be compliant with the Landcom's 'Managing Urban Stormwater: Soils and Construction' (2004) (Blue Book), Council's Compliance and Enforcement Policy and legislation including Protection of the Environment Operations Act 1997 and Contaminated Lands Act 1997.

All approvals, 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.

No objections regarding water management.

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 - Major**

A certificate from a Civil Engineer, stating that the stormwater treatment measures have been designed in accordance with the plans prepared by ACOR Consultants (Project no. CC230124, dated Sep 2023) and Council's Water Management for Development Policy.

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

Reason: Protection of the receiving environment.

**Soil and Water Management Plan**

A Soil and Water Management Plan (SWMP) shall be prepared by a suitably qualified Civil Engineer, who has membership to the Engineers Australia, National Engineers Register and implemented onsite prior to commencement. The SWMP must meet the requirements outlined in the Landcom publication Managing Urban Stormwater: Soils and Construction - Volume 1, 4th Edition (2004) and Council's Water Management for Development Policy.

The SWMP must include the following as a minimum:-

- Site boundaries and contours;
- Vehicle access points, proposed roads and other impervious areas (e.g. parking areas and site facilities)
- Location of all drains, pits, downpipes and waterways on and nearby the site;
- Planned stages of excavation, site disturbance and building;
- Stormwater management and discharge points;
- Integration with onsite detention/infiltration;
- Sediment control basin locations and volume (if proposed);
- Proposed erosion and sediment controls and their locations;
- Location of washdown and stockpile areas including covering materials and methods;
- Vegetation management including removal and revegetation;
- A schedule and programme of the sequence of the sediment and erosion control works or devices to be installed and maintained.
- Inspection and maintenance program;
- North point and scale.

Details demonstrating compliance are to be submitted to the Certifying Authority prior to the issue of the Construction Certificate.

Reason: To promote the long-term sustainability of ecosystem functions.

**CONDITIONS TO BE COMPLIED WITH DURING DEMOLITION AND BUILDING WORK**

### **Dewatering Management**

Any groundwater or tailwater to be discharged must be compliant with Landcom's 'Managing Urban Stormwater: Soils and Construction' (2004) (Blue Book), Council's Compliance and Enforcement Policy and legislation including Protection of the Environment Operations Act 1997 and Contaminated Lands Act 1997.

All approvals, 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.

Reason: Protection of the receiving environment and groundwater resources.

### **Installation and Maintenance of Sediment and Erosion Controls**

Council proactively regulates construction sites for sediment management.

Sediment and erosion controls must be installed in accordance with Landcom's 'Managing Urban Stormwater: Soils and Construction' (2004) and the Erosion and Sediment Control Plan prior to commencement of any other works on 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 the site.

Reason: Protection of the receiving environment.

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

### **Certification for the Installation of Stormwater Treatment Measures**

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 ACOR Consultants (Project #CC230124, dated Sep 2023). The certificate must confirm that stormwater treatment measures are completed, online, in good condition and are not impacted by sediment.

The certificate shall be submitted to the Principal Certifier prior to the release of an 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 Certifier prior to the issue of the 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 Certifier prior to the release of the Occupation Certificate.

Reason: Protection of the receiving environment.

#### **Works as Executed Drawings - Stormwater Treatment Measures**

Works as Executed Drawings for the stormwater treatment measures 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 Certifier 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**

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.

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.