

Water Management Referral Response

Application Number:	DA2020/1120
Date:	30/09/2020
To:	Nick Keeler
Land to be developed (Address):	Lot 17 DP 270907 , 20 Baz Retreat WARRIEWOOD NSW 2102

Reasons for referral

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

Officer comments

This application has been assessed for compliance with the Water Management Report for the subdivision of 29-31 Warriewood Road, prepared by Civil Cert and dated 1/1/2018. The proposed swimming pool increases impervious area of the lot to greater than the allowable 65% under the water management report, but as the non-compliance is minimal, the proposal is accepted.

Sediment and erosion controls apply, and dewatering has been conditioned should it be necessary during construction.

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 COMPLIED WITH DURING DEMOLITION AND BUILDING WORK

Dewatering management for small sites

Groundwater or rain can fill your excavation and you will need to remove it before you continue work. The water might just be rain, or it might be groundwater that is seeping into your excavation. Groundwater in particular might not be very good quality and if it mixes with sediment and is pumped into the stormwater system, can affect fish and vegetation in the receiving waterway, for example a local lagoon.

There are a number of guidelines, policies and laws that govern this work, including Landcom's 'Managing Urban Stormwater: Soils and Construction' (2004) (Blue Book), Council's Compliance and Enforcement Policy, the Protection of the Environment Operations Act 1997, and the Contaminated Lands Act 1997.

When you begin excavating to greater than one metre below the soil surface, you should:

- Note any advice you have received with your development application about acid sulphate soils, and how to respond if acid sulphate soils are exposed.
- Watch the excavation for signs of water seeping in or collecting at the bottom. If any water collects in your excavation, you should STOP WORK.

What to do:

Option 1:

Arrange for a vacuum sucker truck (search these words online to find companies) to remove the sediment-laden water in the excavation. This is a good option if the water is seeping in slowly and you think you can remove it on one or two occasions before sealing the excavation. If this option is chosen, there must be no discharge of water to Council's stormwater system (including the gutter). The company you use will provide advice on disposal of the water.

Option 2:

1. Hire a settling tank, sometimes called a sediment tank. There are several specialist companies that hire these eg. Sydney Sediment Tank Hire, or The Plant Yard, but most construction equipment hire companies will have these eg. Kennards or Coates Hire.
2. Hire a small pump.
3. Get a liquid pH kit (available from hardware stores or pet stores).
4. Test the water from the excavation for pH. Take a photo of the result with something white behind the vial so the colour is obvious.
5. If the sample has a pH
 - a. between 6.5 and 8.5 the water will not require any additives – you can just pass the water through the hired settling tank.
 - b. below 6.5 or over 8.5, the water will need treatment and you will need to get advice from an environmental consultant on how to treat it. It's a simple process either way, but you need advice based on your specific test results.
6. Send an email to catchment@northernbeaches.nsw.gov.au and include:
 - a. pH test results and photo of test
 - b. how you will treat pH (if necessary, see 5b)
 - c. hire confirmation for the sediment settling tank.
7. Council will issue a dewatering permit and tell you where you can discharge the water.
8. Keep a copy of the permit and test results on site, in case of Council inspection.
9. When you need to remove water from your excavation, pump the water to the tank.
10. Discharge the treated water from the tank directly to the approved location indicated in your Council dewatering permit.
11. When you have sealed the excavation and emptied the last amount of clean water from the top of the tank, you can disconnect the pump and tank setup. You should clean out any sediment/sludge that has settled to the bottom of the tank. This needs to go to Kimbriki for disposal.

Reason: Protection of the receiving environment

Installation and Maintenance of Sediment and Erosion Control

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 prepared by RIGHT ANGLE DESIGN & DRAFTING PTY LTD (RADD20019 p5) and stormwater plan by VNK Consulting (090720-01).

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.

The discharge of sediment-laden waters from the site may result in clean-up orders and/or fines under Council's Compliance and Enforcement Policy and legislation including Protection of the Environment Operations Act 1997 and Contaminated Lands Act 1997.

Reason: To protect the surrounding environment from the effects of sedimentation and erosion from the site.