

Memorandum

ARUP

To	Joe Romeo (Laing O'Rourke) Perry Milledge (Laing O'Rourke)	Date 18 August 2011
Copies	Robert Saidman Rudolph Chan	Reference number 0004 Memo
From	Greg Kalisz	File reference 221811
Subject	100 Mount Street Stormwater drainage concept plan statement	

We have reviewed the previous site stormwater drainage concept plan statement and the drawings prepared by Warren Smith & Partners and would like to advise that the site stormwater drainage concept plan for the proposed development will remain unchanged in principle.

The relevant stormwater drainage concept plan requirements are summarised as below with the proposed stormwater drainage plans (SK-H-01 to 04) attached for information.

Stormwater Drainage

Rainwater will be collected from the main roof via the rainwater outlets and downpipes, and discharged to the rainwater tank located below the main roof.

Overflow from the rainwater tank and rainwater from the lower roof will be discharged to the gross pollution trap located at Basement 1 at the southeast of the building.

Surface water from the basement carpark will be collected via grated pits and a pumpout station located at Basement 6, from which it will be pumped to the gross pollution trap prior to discharging to the Council's stormwater main.

The gross pollution trap will be used to screen the rainwater by capturing leaf matters, fine sediments and gross pollutants.

As per the information provided, an existing North Sydney Council's 600mm diameter stormwater main is located adjacent to the proposed building development, running west to east in Mount Street.

The stormwater connection to the Council's stormwater system will be subject to the design development and Council's approval.

As the post development runoff for 1 in 100 year Average Recurrence Interval (ARI) will not exceed the existing site runoff as the existing site is a fully developed site. In addition, rainwater collected will be re-used as described in the following section.

On-Site Detention

It is noted from Condition 9 (Drainage / Flooding) that the North Sydney Council Drainage Development Control Plan (DCP) does not require the use of On-Site Detention for the building stormwater drainage system.

Rainwater Re-use

A 43,000 litres storage tank will be proposed for the rainwater recycling system. The treated rainwater will be re-used for cooling towers. The final capacity of the rainwater tank will be subject to the design development at a later stage.

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Sediment & Erosion Control

Sediment and erosion control measures will be implemented on site during the construction stage in accordance with EPA guidelines and local authority requirements.