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- Structural
- Civil Design
- Stormwater
- Flooding
- Geotechnical
- Subdivisions
- Land Development

DATE: 7 February 2025

REF: SW25114.DC01

WATER CYCLE MANAGEMENT REPORT

PROJECT: PROPOSED RESIDENTIAL DWELLING

LOCATION: 10 RAVEN CIRCUIT, WARRIEWOOD NSW

GCE was commissioned to prepare the flood risk management report in relation to the proposed residential dwelling development at 10 Raven Circuit, Warriewood NSW. The Northern beaches Council has advised that the development site is within the Warriewood valley locality and identified as being within a Narrabeen Lagoon Flood Study (September 2013 as amended) and the Pittwater Overland Flow Flood Study (2013 as amended).

This report has been prepared to accompany a Development Application that will address Northern beaches Council's requirements for a water cycle management. This report describes the existing characteristics of site versus proposed development, assesses the impact on flooding due to the future development. This report is primarily based on the flood information provided by council *Warriewood Valley Urban Land Release Water Management Specification (February 2001 as amended)*

Water Management Report and Accompanying Plans

The Water Management Report, submitted with the application, complies with the water cycle will be managed and integrated with the development. The Water Management Report is to be prepared by appropriately qualified professionals from our office and certified by an experienced and qualified engineer specialising in hydraulics. .

Flooding

The proposed complies with the Flood requirements as identified in Council's *Warriewood Valley Urban Land Release Water Management Specification (February 2001 as amended)* and relevant legislation taking into account the *Narrabeen Lagoon Flood Study (September 2013 as amended)* and the *Pittwater Overland Flow Flood Study (2013 as amended)*.

Stormwater Drainage Management

The design of the stormwater management system (quantity and quality) is included in the integrated water cycle management scheme for the development.

A piped stormwater drainage system network is designed for a 5% AEP flood event including climate change impacts. A failsafe flood overflow system for flood events greater than a 5% AEP flood is to be provided and managed. Appropriate system blockages are to be included in the stormwater drainage system design.

Water Quality Management, Assessment and Monitoring

Sediment and pollution control facilities are also implemented so that upon completion of construction the facilities will prevent, discourage and intercept accidental and deliberate discharge of harmful substances in Warriewood Valley waterways.

This report shall not be construed as relieving any other party of their responsibilities or contractual obligations.



Should you require any further information please contact the undersigned.

Yours faithfully,
GLOBAL CONSULTING ENGINEERS PTY. LTD.



Gary Kumar

Professional Member of Institution of Engineers, Australia.
National Engineering Register,
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