



Ref: 10459

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Attention: Alexander Wilson

RE: Macksville Hospital Development SEAR's – Water Sources

Bonacci Group (NSW) have been engaged by Health Infrastructure NSW to provide Civil and Structural Engineering services for the above project. We make the following comments with regard to "Water Sources" to address the Secretary's Environmental Assessment Requirements:

- The proposed new hospital building is over a disturbed site. Water Sensitive Urban Design (WSUD) measures proposed will include directing stormwater runoff from building surfaces and public carpark to vegetated swales. Stormwater pits are likely to capture gross pollutants. The quantity of stormwater generated will increase, as the existing site is approximately 5% impervious (not including the current use for the construction of Pacific Highway, as the use is only temporary and the site is expected to be restored prior to handover to Health Infrastructure NSW), while the proposed development will increase the impervious area to approximately 31%. It is not anticipated that the development will have an impact on groundwater as no groundwater was encountered in Borehole 8 (most relevant borehole) dated 4 April 2018, or the relevant test pits in the geotechnical report (Regional Geotechnical Solutions, 2 May 2018), as such no water licensing is required is required from Office of Water for the construction of the building.
- As the development does not encroach on Waterfront Land, it is not proposed to provide water monitoring for the project, other than that required as part of soil and water management measures during construction (as identified in Bonacci Civil Drawings 1045901C-CV-MHR-0006 and 1045901C-CV-MHR-0008).
- The proposed new building is located approximately 250 metres from top of bank location of the unnamed watercourse to the east and north, that drains to Watt Creek, and 850 metres from top of bank location of Watt Creek to the east. By definition, Waterfront Land is "any land within 40 metres of the river banks". As such, the building and associated external paving does not encroach on waterfront land.

Yours Sincerely

BONACCI GROUP (NSW) PTY LTD

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