

From: "NSW SES Risk Reduction" <rra@ses.nsw.gov.au>
Sent: Mon, 16 Dec 2024 11:46:52 +1100
To: "Dialina Day" <Dialina.Day@goulburn.nsw.gov.au>
Cc: "NSW SES Risk Reduction" <rra@ses.nsw.gov.au>
Subject: Follow-up discussion about ID2730- PP 158 Gorman Road Goulburn PP-2023-2264

Dear Dialina,

Good afternoon and I hope that my email finds you well.

Following our discussion over the phone last week, I had a look at the site context and note that while the site is outside the PMF flood extent from riverine flooding of the Wollondilly and Mulwaree Rivers, the area is prone to flash flooding and the site is impacted by overland flooding as frequently as 5% AEP events (generally H1 hazard), with a significant part of the site impacted in a 1% AEP and PMF events - including the proposed internal road and proposed building location (in the eastern part).

Generally, if the site is inundated by flooding with no appropriate refuge above the PMF (for emergency management planning we must consider up to and including the PMF), evacuation is required. An appropriate refuge location should be identified, along with a safe, flood-free route to reach that location. This could be challenging in this case due to flash flooding impacts on the broader road network (including Gorman Road) which could isolate the site, making it dangerous to travel on these roads, and also isolation from Goulburn (meaning isolation from essential services such as hospitals, etc.) due to access roads getting cut by riverine flooding (isolation that can last up to 3 days, depending on the event magnitude).

In broad terms, the refuge location should be above the height of the PMF, and provide appropriate shelter, water supply, waste management, sanitation, food and space management for the entire period people need to take refuge there. And this period of time can vary, depending on the extent of flooding and impacts, particularly impacts on infrastructure and property (the home itself) - because this would dictate if/when it is safe to return.

More information on the Red Cross Preferred Sheltering Practices for Emergency Sheltering in Australia can be found by following this link: <https://www.redcross.org.au/globalassets/cms-assets/documents/emergency-services/2015-preferred-sheltering-practices-for-emergency-sheltering-in-australia.pdf>

A FIRA that considers the post-development conditions (assessing flooding impacts across the entire proposed development site, including the proposed internal road), could help the consent authority assess the full extent of the flood risks at the site and requirements for evacuation.

Please do not hesitate to reach out to our team if there are any questions.

Wishing you a great week ahead and Happy Holidays!

Warm regards,
Ana Chitu



Ana Chitu (she / her)
Planning and Research Officer
Emergency Risk Assessment – Regional NSW
NSW State Emergency Service
E rra@ses.nsw.gov.au

Suite 5, Level 9, 1 Rider Boulevard , Rhodes NSW 2138
www.ses.nsw.gov.au



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