



## Flood and Climate Change Impacts

In 2013 Sunshine Coast Council commissioned Cardno to undertake a detailed flood assessment of Cornmeal Creek in Maroochydore, including modelling a range of extreme flood events.

Subsequent to this, Cardno was commissioned to determine an acceptable development footprint for the proposed Maroochydore City Centre Priority Development Area Development Scheme.

Cardno was also commissioned to carry out additional work associated with the Maroochydore City Centre development including:

- Raising the level of the MCC lake weir
- Assessing the impact of the MCC development assuming the highest astronomical tide level in the Maroochy River
- Calculating the time it would take for the lake level to fall following a flood event in the catchment
- Modelling a range of extreme flood events

## Proposed Development

The results found that the development of the Maroochydore City Centre will not have an adverse impact on flood levels external to the site.

In general, the development results in a significant decrease in peak flood levels in areas around the site.

## Climate Change

The Maroochydore PAC Structure Plan Planning Scheme Policy No 15 sets out the following:

The development is designed to allow for:

- a 20% increase in design rainfall intensities (consistent with 2010 DERM report)
- A rise in Mean Sea Level of 819mm

The minimum floor level for all areas of the Maroochydore City Centre is 3.5mAHD (Australian Height Datum or Mean Sea Level) - higher than that determined by the 110-year ARI storm surge level of 3.32mAHD.

## Conclusion

The report demonstrates that the proposed Maroochydore City Centre development does not cause any adverse impact on flood levels in the catchment.

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