



## REGIONAL WATER SECURITY & SEWER UPGRADES

### MANGROVE CREEK DAM PROBABLE MAXIMUM FLOOD UPGRADE

#### What's needed?

State Government:

- Funding of \$6m for the project.
- Central Coast Council will undertake the management of the project.

#### What's been done?

A preliminary concept design has been developed by Council for the construction of a parapet wall and spillway.

#### Description

Construction of an upgraded spillway and parapet wall at the Mangrove Creek Dam (MCD) will increase water storage by 38,000ml and ensure dam safety.

Mangrove Creek Dam (MCD) is the key water storage for the Central Coast and with a capacity of 190,000ml, represents approximately 94% of the total storage capacity for the Central Coast. Revised flood analysis has identified that the dam cannot meet the current NSW Dam Safety Committee flood requirements for the Probable Maximum Flood (PMF). The dam is currently not permitted to be filled beyond 80% of capacity, as this allows a flood to be buffered in the airspace of the unfilled portion of the dam to an extent that the PMF can safely pass through the existing spillway.





## Description (cont.)

Construction of a parapet wall and spillway improvements will allow the PMF to pass and increase capability storage to 100%. This will ensure the safety of the dam and the downstream community and provide an additional 38,000ml of storage, the equivalent of 15 months water supply.

Design and procurement will take 18 months with construction a further 9 months.

## Benefits

- Increase water storage capacity of the Central Coast (15 months additional supply at current demand).
- Increase the ability to supply water to the Hunter under the Hunter Central Coast Pipeline agreement which is a key element of the State Government's Lower Hunter Water Plan.
- Greater utilisation of existing infrastructure and investments.
- Increased potential for enhanced environmental flows (enhanced environmental flow rules apply when total Central Coast storage levels exceed 60%).

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