

Pambula River, Pambula Lake and Yowaka River Flood Study

Draft Report for Public Exhibition

Volume 2 of 2: Figures



FIGURES

- Figure 1: Pambula River, Pambula lake and Yowaka River Catchment
- Figure 2: Digital Elevation Model
- Figure 3: Existing Datasets
- Figure 4: Location of Rainfall and Stream Gauges
- Figure 5: Remote Sensing Land Use Map
- Figure 6: Additional Information Collected for Study
- Figure 7: XP-RAFTS Model Layout
- Figure 8: TUFLOW Model Layout

Calibration Maps

- Figure 9: Isohyet Map for 2016 Storm
- Figure 10: Simulated Floodwater Depths for 2016 Flood
- Figure 11: Isohyet Map for 2012 Storm
- Figure 12: Simulated Floodwater Depths for 2012 Flood
- Figure 13: Isohyet Map for 2011 Storm
- Figure 14: Simulated Floodwater Depths for 2011 Flood
- Figure 15: Isohyet Map for 1985 Storm
- Figure 16: Simulated Floodwater Depths for 1985 Flood
- Figure 17: Isohyet Map for 1971 Storm
- Figure 18: Simulated Floodwater Depths for 1971 Flood

Design Floodwater Depth and Level Maps

- Figure 19: Peak Water Depths and Levels for the 10% AEP Flood
- Figure 20: Peak Water Depths and Levels for the 5% AEP Flood
- Figure 21: Peak Water Depths and Levels for the 2% AEP Flood

- Figure 22: Peak Water Depths and Levels for the 1% AEP Flood
- Figure 23: Peak Water Depths and Levels for the 0.5% AEP Flood
- Figure 24: Peak Water Depths and Levels for the 0.2% AEP Flood
- Figure 25: Peak Water Depths and Levels for the PMF

Design Floodwater Speed Maps

- Figure 26: Peak Floodwater Speed for the 10% AEP Flood
- Figure 27: Peak Floodwater Speed for the 5% AEP Flood
- Figure 28: Peak Floodwater Speed for the 2% AEP Flood
- Figure 29: Peak Floodwater Speed for the 1% AEP Flood
- Figure 30: Peak Floodwater Speed for the 0.5% AEP Flood
- Figure 31: Peak Floodwater Speed for the 0.2% AEP Flood
- Figure 32: Peak Floodwater Speed for the PMF

Tidal Inundation Maps

Figure 33: Peak HHWSS Tide Depths

Flood Hazard Maps

- Figure 34: Flood Hazard for the 5% AEP Flood
- Figure 35: Flood Hazard for the 1% AEP Flood
- Figure 36: Flood Hazard for the 0.2% AEP Flood
- Figure 37: Flood Hazard for the PMF

Hydraulic Category Maps

- Figure 38: Hydraulic Categories for the 5% AEP Flood
- Figure 39: Hydraulic Categories for the 1% AEP Flood
- Figure 40: Hydraulic Categories for the 0.2% AEP Flood
- Figure 41: Hydraulic Categories for the PMF

Flood Emergency Response Precinct Classifications

- Figure 42: Emergency Response Precinct Classifications for the 5% AEP Flood
- Figure 43: Emergency Response Precinct Classifications for the 1% AEP Flood
- Figure 44: Emergency Response Precinct Classifications for the 0.5% AEP Flood
- Figure 45: Emergency Response Precinct Classifications for the PMF

Climate Change Maps

- Figure 46: Peak HHWSS Water Depths with 0.4m Sea Level Rise
- Figure 47: Peak HHWSS Water Depths with 0.4m Sea Level Rise and 0.4m Increase in River Entrance Elevation
- Figure 48: Peak HHWSS Water Depths with 0.9m Sea Level Rise
- Figure 49: Peak HHWSS Water Depths with 0.9m Sea Level Rise and 0.9m Increase in River Entrance Elevation
- Figure 50: Peak 1% AEP Water Depths with 0.4m Sea Level Rise
- Figure 51: Peak 1% AEP Water Depths with 0.4m Sea Level Rise and 0.4m Increase in River Entrance Elevation
- Figure 52: Peak 1% AEP Water Depths with 0.9m Sea Level Rise
- Figure 53: Peak 1% AEP Water Depths with 0.9m Sea Level Rise and 0.9m Increase in River Entrance Elevation
- Figure 54: Peak 1% AEP Water Depths with 18% Rainfall Increases
- Figure 55: Peak 1% AEP Water Depths with41% Rainfall Increases
- Figure 56: Peak 1% AEP Water Depths with 18% Rainfall Increases and 0.4m Sea Level Rise
- Figure 57: Peak 1% AEP Water Depths with 018% Rainfall Increases and 0.4m Sea Level Rise and 0.4m Increase in River Entrance Elevation
- Figure 58: Peak 1% AEP Water Depths with 41% Rainfall Increases and 0.9m Sea Level Rise
- Figure 59: Peak 1% AEP Water Depths with 41% Rainfall Increases and 0.9m Sea Level Rise and 0.9m Increase in River Entrance Elevation

Flood Planning Maps

- Figure 60: Flood Planning Area
- Figure 61: Flood Planning Category Constraints



























































































































