



## Mangrove Creek Subcatchment

The Mangrove Creek Subcatchment lies in the north-eastern corner of the Hawkesbury-Nepean catchment. It includes a tidal reach where the creek enters the Hawkesbury Nepean Estuary.

The catchment has significant areas of bushland in Dharug and Popran National Parks or in the protected catchment of Mangrove Creek Reservoir which supplies water for Gosford/Wyong.

The catchment has experienced historical clearing and agriculture on the lower floodplains, which have increased the rates of erosion and the resulting sedimentation and deposition downstream. Flows in Mangrove Creek are impacted significantly by the reservoir in the upper reaches. The areas around Peats Ridge, Mangrove Creek, Upper Mangrove and Mangrove Mountain have some peri-urban development.

## Reach Management Recommendations – Mangrove Creek Subcatchment

Reach Name	Reach Description	Riparian Land Management Category	Reach Values	Reach Threats	Reach management recommendations (Planning, Education, Works, Monitoring, Institutional)
Mangrove R1	From Reservoir wall to tidal reach approx 1 km upstream of Greengrove.	Assisted Regeneration	<ul style="list-style-type: none"> <li>• Good riparian vegetation</li> <li>• Wetlands of local significance</li> <li>• Identified flagship species – Lyrebird</li> <li>• Significant community based environment activity</li> </ul>	<ul style="list-style-type: none"> <li>• Modified / engineered channel (associated with dam)</li> <li>• Damaging access (cattle)</li> <li>• Aquatic weed outbreaks (Sagittaria)</li> <li>• Barriers to ecosystem functioning</li> <li>• Flow regulation</li> <li>• Flow extraction</li> </ul> <p>Action Triggers</p> <ul style="list-style-type: none"> <li>• Severe downstream impact (weir affecting water quality)</li> </ul>	<ul style="list-style-type: none"> <li>• Aquatic habitat condition and connectivity improvement (P,W)</li> <li>• Management of stock impacts on waterways (W)</li> <li>• Management of aquatic weeds (P,W)</li> <li>• Removal/replacement of exotic riparian vegetation (W)</li> <li>• Encourage adoption of sustainable land use practices in riparian lands (P,E)</li> <li>• Water quantity / flow management (I)</li> <li>• Maintain existing community based environment activity (E,P)</li> <li>• Riparian wetland management</li> </ul>
Mangrove Tidal	From just above Greengrove to main river at Spencer.	Revegetation	<ul style="list-style-type: none"> <li>• Good riparian vegetation</li> <li>• Wetlands of regional or state significance (SREP 20 wetlands and saltmarsh)</li> <li>• Significant vegetation community – saltmarsh</li> <li>• Popular recreational fishing</li> <li>• Popular swimming</li> <li>• Identified flagship species (Mud Crabs, Jewfish, Mangroves)</li> <li>• Commercial fishing</li> </ul>	<ul style="list-style-type: none"> <li>• Modified / engineered channel (localised bank protection works)</li> <li>• Damaging access (human access causing mangrove damage)</li> <li>• Flow regulation</li> <li>• Flow extraction</li> </ul>	<ul style="list-style-type: none"> <li>• Manage human impacts at public and private recreation river access points and along foreshores (I,W)</li> <li>• Maintenance of recreational values – recreational water quality (M)</li> <li>• Riparian wetland management</li> <li>• Increase community capacity for environmental restoration (E)</li> <li>• Revegetation with indigenous riparian vegetation (W)</li> </ul>

Creeks of Community Concern: Ironbark Creek, Popran Creek, Warre Warren Creek.