

Northern Gulf NRM Plan Targets

<p>TARGETS for: LAND</p> <p>LRCT 1. By 2020, 70% of high grazing value land types (black soils/black basalts, alluvial country, Georgetown granites and red duplex) are maintained in A and B condition.</p> <p>LRCT 2. By 2020, 70% of low grazing value land types (red earth, yellow earths, sandy forest, sand ridge, range soils and lancewood) are maintained in A and B condition.</p> <p>LRCT3. By 2020, the productive capacity of land resources in the intensive and peri-urban areas of the region is maintained.</p>	
MANAGEMENT ACTION TARGETS	TYPE OF MAT ¹
<p>LMAT1: By 2013, landholders for 80% of the savanna ecosystems in the region are engaged in and 50% have completed property mapping (land type and capability and infrastructure)</p>	RA / OGW
<p>LMAT2: By 2013, there is improved management practice including improved understanding of resource capability and record keeping for 950,000ha of the savanna ecosystems in the region</p>	RA / OGW
<p>LMAT3: By 2013, resource asset mapping is completed for 950,000ha of extensive land at 1:25,000 scale</p>	RA
<p>LMAT4: By 2013, resource asset mapping is completed for 15,000ha of intensive and peri-urban land at 1:5,000 scale</p>	RA
<p>LMAT5: By 2013, there is improved fire management practices including improved skills to plan and implement appropriate burning programs over 650,000ha of the region</p>	OGW / P
<p>LMAT6: By 2013, the baseline for soil health in intensive and peri-urban lands will be established.</p>	RA
<p>LMAT7: During 2008 to 2013, the grazing industry has been participating and co-investing in natural resource management outcomes</p>	CB / OGW
<p>LMAT8: By 2013, the peri-urban and hobby farm sector is participating and co-investing in natural resource management outcomes</p>	CB / OGW
<p>LMAT9: By 2013, parthenium weed has not spread from existing 2008 containment line</p>	OGW
<p>LMAT10: By 2013, bellyache bush has been eradicated from Walsh River Gorge – section from Emu Delta to Youngala Waterhole</p>	OGW
<p>LMAT11: By 2013, best practice grader grass management guidelines have been developed, disseminated and adopted by affected grazing and conservation lands</p>	OGW

¹ P – planning; RA – resource assessment; OGW – on-ground works; CB – capacity building

Targets for: TERRESTRIAL BIODIVERSITY

BRCT1: By 2015, the long-term population viability and stability of 95% of native plant species and threatened native plant species is maintained or improved from 2008 levels.

BRCT2: By 2033, 80% of the significant terrestrial and marine native species and ecological communities are in good biodiversity condition.

BRCT3: By 2033, the conservation of naturally occurring aquatic organisms and ecological values of 60% of priority natural waterholes and stream reaches is ensured

BRCT4: The health, condition, status and biodiversity of all priority natural waterbodies or stream reaches does not decline from their current status (2008 levels). By 2020, there is 40% improvement from 2008 baseline levels in priority areas.

BRCT5: Ecological connectivity and function across the land and sea to ensure resilience to climate change and other threatening processes is maintained or improved by 2033.

BRCT6: The long-term population viability and stability of 95% of Indigenous totemic species is maintained or improved by 2033.

MANAGEMENT ACTION TARGETS	TYPE OF MAT ²
BMAT1: By 2013, the Northern Gulf has a robust economic model for leveraging ecosystem services funds to the region from a variety of investors	CB
BMAT2: By 2013, the distribution of 75% of significant native species and ecological communities, and priority refugial areas are known	RA
BMAT3: By 2013, ten additional nature refuges are established contributing to a conservation reserve system	OGW
BMAT4: By 2013, an environmental management plan is completed and being implemented for the nationally significant Mutton Hole Wetlands	P / OGW
BMAT5: By 2013, two guides to the land systems and preferred management practices of the Northern Gulf region have been developed and published	CB
BMAT6: By 2013, a species data base has been developed for identification and management specific information for multi-purpose and multi stakeholder use	CB
BMAT7: By 2013, potentially weedy garden plant production and sales have decreased from 2008 levels.	CB / OGW
BMAT8: By 2013, condition and trend analysis for significant biodiversity is developed and providing sound and scientifically rigorous information for on-going management	RA
BMAT9: By 2013, partnerships for species recovery are implemented to restore regionally extinct species and conserve protected, endangered and threatened species.	CB / OGW / RA

² P – planning; RA – resource assessment; OGW – on-ground works; CB – capacity building

BMAT10: During 2008 to 2013 the naturalists, conservationists and tourism industry has been participating and co-investing in natural resource management outcomes	CB / OGW
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TARGETS for: FRESHWATER SYSTEMS	
FWRCT1: By 2033, the rate of human induced gully erosion on all major streams in the region is decreased by 20% from 2008 baseline levels	
FWRCT2: Adequate environmental flows are maintained to all rivers and streams in the region based on sound science and local knowledge as required by the National Water Initiative and as required by community expectations	
FWRCT3: By 2028, flows are maintained that sustain cultural values	
FWRCT4: By 2015, 15% of high value and 5% of all permanent natural waterbodies or stream reaches within the catchment are being specially managed to maintain ecological values and integrity in accordance with the National Water Initiative	
FWRCT5: By 2015, extraction from groundwater systems is at sustainable levels for maintenance of groundwater quality	
FWRCT6: By 2028, water quality in a minimum of 90% of Gulf river reaches does not negatively affect aquatic and human life	
FWRCT7: By 2028, endemic native vegetation cover exists on 70-85% of Northern Gulf river banks	
MANAGEMENT ACTION TARGETS	TYPE OF MAT ³
FWMAT1: By 2013, a digital elevation model for 10,000ha of the Mareeba-Dimbulah Water Supply Scheme is complete	RA
FWMAT2: By 2013, Tilapia have been removed from the Mitchell Catchment headwaters and no new introductions have occurred.	OGW / CB
FWMAT3: By 2013, three fish barriers in the region have been mitigated	OGW
FWMAT5: By 2013, a waterbody and wetland inventory exists for all catchments of the region and includes known aquatic fauna distributions	RA
FWMAT6: By 2013, the heavy metal contamination risk in fish in the lower Norman and upper Mitchell catchment is identified and environmental and public health considerations enacted	RA
FWMAT7: By 2013, the causes of gully erosion have been identified and strategies developed for management and mitigation	RA / CB
FWMAT8: By 2013, a code of practice for alluvial mining in the region has been developed and adopted by the small mining industry	CB/P

³ P – planning; RA – resource assessment; OGW – on-ground works; CB – capacity building

<p>FWMAT9: By 2013, the water quality guidelines for gulf rivers has been reviewed and recommendations have attracted investment for implementation</p> <p>FWMAT10: By 2013, management practices to protect groundwater resources are established and adopted</p>	<p>RA</p> <p>RA / OGW</p>
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TARGETS for: COASTAL AND MARINE	
<p>CMRCT1: By 2028, there is less than 20% decrease of productivity of marine based primary production due to climate variability from 2008 baseline levels</p> <p>CMRCT2: The structure and function of key marine, estuarine and coastal habitats and ecosystem services they provide are maintained by 2028.</p> <p>CMRCT3: Key habitats for priority and culturally important coastal and marine species are protected and managed by 2028.</p>	
MANAGEMENT ACTION TARGETS	TYPE OF MAT ⁴
<p>CMMAT1: By 2013, research and monitoring programs are operating that fill prioritised information needs regarding the extent and condition of the Northern Gulf coastal and marine assets, their social, environmental, economic and cultural values.</p> <p>CMMAT2: By 2015, pressures on the Northern Gulf's coastal and marine assets have been assessed, prioritized and implementation commenced.</p> <p>CMMAT3: By 2013, management arrangements across jurisdictions and sectors are integrated to ensure effective approaches to coastal and marine management issues.</p> <p>CMMAT4: By 2013, the cumulative impacts on water quality and coastal marine ecosystems from mining and other land based activities is being monitored</p> <p>CMMAT5: By 2013, the occurrence of ghost nets on the Gulf of Carpentaria coastline is reduced and mitigating strategies are accepted by East Asian neighbors</p> <p>CMMAT6: By 2013, an effective recycling processes is identified for ghost nets and other petroleum based plastics</p> <p>CMMAT7: By 2013, there are higher levels of participation by Aboriginal people in coastal and marine monitoring and management programs.</p> <p>CMMAT8: By 2013, the management and recovery of grunter stocks is based on sound ecological science and implemented to increase the population and stocks</p>	<p>RA</p> <p>RA / OGW</p> <p>P / CB</p> <p>RA</p> <p>OGW / CB</p> <p>CB</p> <p>CB</p> <p>RA / OGW</p>

⁴ P – planning; RA – resource assessment; OGW – on-ground works; CB – capacity building

Targets for: PEOPLE – INDIGENOUS RESOURCE MANAGEMENT

PRCT1: By 2015, Traditional Owner income from cultural or resource based industries has increased from 2008 levels.

PRCT2: By 2028, the number of cultural heritage sites and places protected has increased from 2008 levels.

PRCT3: By 2028, communities have the interest, power, capacity and resources to manage NRM and the landscape appropriately.

PRCT4: By 2028, Indigenous people have increased access to and involvement in the management of land and sea country. Arrangements for access to country are established for areas that are a priority for the region’s Traditional Owners.

PRCT5: By 2028, the Traditional Owner groups enjoy an improved attitude, knowledge and motivation for cultural identity.

MANAGEMENT ACTION TARGETS	TYPE OF MAT ⁵
PMAT1: By 2013, 70% of Traditional Owner knowledge is captured and available for future generations	RA
PMAT2: By 2013, the leadership skills of Traditional Owner youth have been enhanced and are motivating positive action for cultural and environmental outcomes.	CB / OGW
PMAT3: By 2013, there is an increased cultural awareness in the region.	CB
PMAT4: By 2013, all significant cultural heritage areas are mapped by Traditional Owners	RA
PMAT5: By 2013, Indigenous people have increased access to, and involvement in the management of land and sea country	CB / OGW
PMAT6: By 2013, an increased number of Indigenous Land and Sea Centres and ranger groups are established	CB / OGW

⁵ P – planning; RA – resource assessment; OGW – on-ground works; CB – capacity building

Targets for: PEOPLE – COMMUNITY RESILIENCE

PRCT6: By 2028, the natural resource-based income and prosperity for the region's communities is maintained or increased from 2008 levels.

PRCT7: By 2028, secure funding resources have increased that allow communities to adapt to and mitigate climate change including building the resilience of the regional environments and industries.

PRCT8: By 2028, the natural history, ecosystem function, climate and ecosystem modelling, and anthropogenic influences to ecosystem services in the region is documented and used by school curriculum, local people, industries and governments.

PRCT9: By 2028, the rate of volunteerism and participation in activities that enhance environmental resource condition increased by 20% from 2008 levels.

MANAGEMENT ACTION TARGETS	TYPE OF MAT ⁶
PMAT7: By 2013, local people have improved resources and skills to effectively plan for and sustainable manage their land and sea	CB
PMAT8: By 2013, the local environment values and ecosystems services is embedded in the learning of children in the Northern Gulf region	CB
PMAT9: By 2013, communities and industries have access to stable funds to implement public good outcomes	CB
PMAT10: By 2013, community leadership and motivation for improved resource condition is strong and delivering positive outcomes	CB

Asset: CLIMATE CHANGE

CCRCT1: By 2028, there is less than 20% decrease of productivity of land based primary production due to climate variability (relates to LAND asset) against 2008 levels

CCRCT2: In 2028, communities have affordable and reasonable access to fresh food and water for basic human life (relates to FRESHWATER asset)

CCRCT3: In 2028, communities have access to air that does not cause harm to human life

MANAGEMENT ACTION TARGETS	TYPE OF MAT ⁷
CCMAT1: By 2013, a digital elevation model is completed for the Karumba area	RA
CCMAT2: By 2013, the relative vulnerability and resilience of 75% of significant terrestrial native species and ecological communities to climate change will be understood and incorporated in future planning and implementation	RA / P

⁶ P – planning; RA – resource assessment; OGW – on-ground works; CB – capacity building

⁷ P – planning; RA – resource assessment; OGW – on-ground works; CB – capacity building

<p>CCMAT3: By 2013, the relative vulnerability and resilience of 75% of significant coastal and marine native species and ecological communities to climate change will be understood and incorporated in future planning and implementation.</p>	<p>RA / P</p>
<p>CCMAT4: By 2013, carbon flux associated with grazing land management and fire practices in the region are established.</p>	<p>RA / CB</p>
<p>CCMAT5: By 2013, community acceptable approaches for accessing economic opportunities associated with carbon capture and storage are developed.</p>	<p>CB</p>
<p>CCMAT6: By 2013, weather (rainfall and temperature) recording infrastructure has improved to provide reasonable data for future planning under a climate of change.</p>	<p>RA / CB</p>
<p>CCMAT7: By 2013, the potential and benefits of implementing independent renewable energy sources in the region assessed to provide reasonable direction for future planning under a climate of change.</p>	<p>CB / P</p>
<p>CCMAT8: By 2013, communities and industries are beginning to adapt practices for climate change mitigation.</p>	<p>OGW</p>