

MANAGEMENT UNIT (MU) (LOCATION)	MANAGEMENT OBJECTIVES	MANAGEMENT STRATEGIES	ISSUE/IMPORTANCE/REASON	RESPECTIVE RESPONSIBLE AGENCIES
MU06	<ul style="list-style-type: none"> To suggest for the promotion of MMFR as a heritage site under the National Heritage Act 2005 and to prepare Forest Management Plan or Conservation Management Plan (CMP) 	<ul style="list-style-type: none"> Preparing complete documents for nominating MMFR as a Natural Heritage Site similar to Royal Belum State Park To prepare a Management Plan to be integrated into the existing Local Plan and Structure Plan 	<ul style="list-style-type: none"> Protecting the heritage area from changing as the land use changes in the future will impact the natural heritage site 	<ul style="list-style-type: none"> JWN Perak State Government JPNPk DoF PERHILITAN Tourism Malaysia Tourism Perak Perak State Park Corporation (PTNPK)

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MU06	Conservation Area <ul style="list-style-type: none"> Conservation of Environmentally Sensitive Area (ESA) 	<ul style="list-style-type: none"> It has been proposed as a Ramsar Site. To conserve as a State Park Minimal disturbance in this area. 	<ul style="list-style-type: none"> An Environmentally Sensitive Area (ESA). 	<ul style="list-style-type: none"> Jabatan Perhutanan

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MU06	Marine Capture Fisheries <ul style="list-style-type: none"> To ensure high standards of fish quality, enhanced food safety and nutritional value through provision of better fisheries infrastructures and facilities. 	<ul style="list-style-type: none"> Upgrade the fisheries infrastructure at Sg. Sangga, Kuala Sepetang and Tebuk Matang fish landing points. 	<ul style="list-style-type: none"> Lack of fisheries infrastructure at most fish landing points 	<ul style="list-style-type: none"> Lembaga Kemajuan Ikan Malaysia (LKIM)
	<ul style="list-style-type: none"> To promote sustainable fishing methods and practices. 	<ul style="list-style-type: none"> Strengthen the surveillance and enforcement. 	<ul style="list-style-type: none"> Utilization of unsustainable fishing gear as a common fishing method practice 	<ul style="list-style-type: none"> Malaysian Maritime Enforcement Agency Department of Fisheries
	Aquaculture <ul style="list-style-type: none"> To conserve cockle farming through protection of mudflat areas. 	<ul style="list-style-type: none"> Mudflats and natural spatfall areas gazetted as fisheries protected area. Propose Aquaculture Industrial Zone (AIZ) for cockle farming. Protect the mudflat areas due to its importance as cockle farming area. 	<ul style="list-style-type: none"> Lack of protection of the cockle farming activities within mudflat areas off Kuala Sangga to Kuala Larut 	<ul style="list-style-type: none"> Department of Fisheries
	Recreational Fisheries <ul style="list-style-type: none"> To improve recreational fisheries infrastructures and facilities. 	<ul style="list-style-type: none"> Upgrade the recreational fisheries infrastructure at Kuala Sepetang Upgrade/Additional septic tanks/toilets 	<ul style="list-style-type: none"> Limited recreational fisheries infrastructures and facilities 	<ul style="list-style-type: none"> Local Authority

	<ul style="list-style-type: none"> • To promote good fishing practices in recreational fishing activities. 	<ul style="list-style-type: none"> • Strengthen the surveillance and enforcement. 	<ul style="list-style-type: none"> • Unregistered fishing boat for recreational fishing activities can lead to unsustainable fishing and safety issues. 	<ul style="list-style-type: none"> • Malaysian Maritime Enforcement Agency
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MU06	<ul style="list-style-type: none"> Achieving Sustainable Development through Integrated Land Use Planning and Management 	<ul style="list-style-type: none"> Environmental conservation and forest conservation (ESA level 1) 	<ul style="list-style-type: none"> Hutan Paya Laut Matang – full protection forest (virgin forest & land forest) Hutan Paya Laut Matang – production forest (virgin forest) 	<ul style="list-style-type: none"> Perak Forestry Department PTD Perak State Government
		<ul style="list-style-type: none"> Environmental conservation and forest conservation (ESA level 3) 	<ul style="list-style-type: none"> Hutan Paya Laut Matang – Unproductive Area (pier area) 	
		<ul style="list-style-type: none"> Larut Matang Nature Trail 	<ul style="list-style-type: none"> The Mangrove Trail starts from Matang Mangrove Forest to Terong Jetty 	
		<ul style="list-style-type: none"> Environmental Excellence Center 	<ul style="list-style-type: none"> Larut Matang district has many permanent forest reserves that are still preserved. The proposed nature -based Tourism and Education Center will make it easier for environmentalists and researchers to study the species of life and plants in the forest. 	

MU06 consist of two types of permanent forest reserve which are VJR similar to MU05 and also Soil Reclamation Forest which its function is to create an activity to improve environmental damage. This is in line with the objective of integrated land use and sustainable environment. Other than that, strategy created for Larut Matang Nature Trail as well as environmental excellence Centre is because of permanent forest reserve are still preserved and in order to protect the mangroves, it can be proposed for Matang Mangroves Forest be gazetted as a state park under Perak State Park Corporation (PTNPk) or to be regulated through the council established under the Perak Coastal Management Enactment 2016.

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MU06	Mangrove <ul style="list-style-type: none"> To protect, conserve and rehabilitate the mangrove areas To facilitate mangrove regeneration by implementation of appropriate tools and methods. 	<ul style="list-style-type: none"> Prohibit land use conversion within MMFR into other development projects. 	<ul style="list-style-type: none"> Extensive protected mangroves area i.e., Matang Mangrove Forest Reserve (MMFR). 	<ul style="list-style-type: none"> Land Office
		<ul style="list-style-type: none"> Prohibition of new development plans to facilitate the regeneration of mangrove within respective areas. 	<ul style="list-style-type: none"> Regeneration and re-establishment of mangroves. 	<ul style="list-style-type: none"> PlaNMalaysia Perak Land Office
	Mudflat <ul style="list-style-type: none"> To protect and conserve the mudflat areas. 	<ul style="list-style-type: none"> Minimize coastal developments in respect to mudflat areas. No land reclamation and coastal development at MMFR areas. 	<ul style="list-style-type: none"> Coastal development within Perak coastline possesses adverse impacts towards adjacent mudflat areas. 	<ul style="list-style-type: none"> Pejabat Tanah dan Galian (PTG) Perak
		<ul style="list-style-type: none"> Protect mudflat areas due to its importance as cockle farming area. 	<ul style="list-style-type: none"> Mudflat areas serve as important grounds for natural spatfall and cockle farming.off Kuala Sangga to Kuala Larut 	<ul style="list-style-type: none"> Department of Fisheries
	Marine Mammals <ul style="list-style-type: none"> To conserve and protect marine mammals. 	<ul style="list-style-type: none"> Propose a dolphin-watching guideline for responsible dolphin- watching in Matang as a precautionary approach to mitigate the growing dolphin-watching tourism. 	<ul style="list-style-type: none"> Unregulated dolphin-watching tourism that has gained traction in Kuala Sepetang could cause changes in its natural behavior. 	<ul style="list-style-type: none"> Department of Fisheries
		<ul style="list-style-type: none"> Minimize large-scale coastal developments and modifications near identified core habitats of cetaceans, 	<ul style="list-style-type: none"> Potential marine mammals' disturbance due to coastal developments and modifications. 	<ul style="list-style-type: none"> PlaNMalaysia Perak

		<p>particularly in Kuala Sangga Besar and Kuala Larut.</p> <ul style="list-style-type: none"> Minimize coastal modifications i.e., coastal shrimp farming, coastal reclamation, and the clearing of fringing mangrove forests in Matang. 		<ul style="list-style-type: none"> Department of Fisheries Department of Forestry Land Office
		<ul style="list-style-type: none"> Implement and enforce fisheries regulation to restrict the use of high-risk bycatch gears especially within marine mammals' hotspot areas such as off Kuala Sangga Besar, to Kuala Larut. Promote utilization of sustainable fishing gears within Important Marine Mammal Area (IMMA). 	<ul style="list-style-type: none"> Utilization of unsustainable fishing gear could impose significant threat towards marine mammals within Perak coastline. 	<ul style="list-style-type: none"> Department of Fisheries
		<ul style="list-style-type: none"> Collect and analyse data to help inform effective mitigation to reduce vessel collisions with marine mammals within MMFR. 	<ul style="list-style-type: none"> Marine mammals are susceptible to injury and mortality from vessel collisions. 	<ul style="list-style-type: none"> Department of Fisheries Marine Department
	Avifauna <ul style="list-style-type: none"> To protect and conserve important bird areas. 	<ul style="list-style-type: none"> Enhance and promote the sustainable ecotourism for birdwatching at MMFR. 	<ul style="list-style-type: none"> MMFR and its mudflats areas serve ecological importance as important staging sites and stopover location for coastal migratory waterbirds and migrant forest birds along the West Coast of Peninsular Malaysia. 	<ul style="list-style-type: none"> PERHILITAN
		<ul style="list-style-type: none"> Prohibit land reclamation activities within MMFR and Bagan Datuk coastlines. 	<ul style="list-style-type: none"> Coastal development possesses adverse impacts towards important bird areas within Perak coastline especially within MMFR. 	<ul style="list-style-type: none"> PlaNMalaysia Perak PERHILITAN Land Office

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MU06	<ul style="list-style-type: none"> The mangrove forests must be preserved. Provide individual septic tanks (IST) for each household in the fishermen's' village upstream of Kuala Sungai Sepetang at Port Weld. 	<ul style="list-style-type: none"> No development or conversion of the mangrove forest to other uses. Only research activities are allowed. Inventory of sewage treatment facilities to identify areas that are lacking of sanitary facilities. 	<ul style="list-style-type: none"> WQI at the water quality station was moderate to poor. Parameters of concern include phosphate, nitrate and faecal coliform. There are fishing villages upstream of the estuaries at Port Weld. These settlements require proper sewage facilities, at least individual septic tanks and solid waste management to avoid polluting the waterways. 	<ul style="list-style-type: none"> Department of Environment Department of Fisheries Department of Forestry Indah Water Konsortium Local Council