

| MANAGEMENT UNIT<br>(MU)<br>(LOCATION) | MANAGEMENT OBJECTIVES   | MANAGEMENT STRATEGIES  | ISSUE/IMPORTANCE/REASON  | RESPECTIVE<br>RESPONSIBLE<br>AGENCIES                                |
|---------------------------------------|---|--|--|--|
| MU07                                  | <b>Conservation Area</b> <ul style="list-style-type: none"> <li>Conservation of Environmentally Sensitive Area (ESA)</li> </ul> | <ul style="list-style-type: none"> <li>It has been proposed as a Ramsar Site.</li> <li>To conserve as a State Park</li> <li>Minimal disturbance in this area.</li> </ul> | <ul style="list-style-type: none"> <li>An Environmentally Sensitive Area (ESA).</li> </ul> | <ul style="list-style-type: none"> <li>Jabatan Perhutanan</li> </ul> |

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| MU07                                  | <b>Marine Capture Fisheries</b> <ul style="list-style-type: none"> <li>To ensure high standards of fish quality, enhanced food safety and nutritional value through provision of better fisheries infrastructures and facilities.</li> </ul> | <ul style="list-style-type: none"> <li>Upgrade the fisheries infrastructure at Sg. Terong fish landing point.</li> </ul>                              | <ul style="list-style-type: none"> <li>Lack of fisheries infrastructure at most fish landing points</li> </ul>  | <ul style="list-style-type: none"> <li>Lembaga Kemajuan Ikan Malaysia (LKIM)</li> </ul>                                  |
|                                       | <ul style="list-style-type: none"> <li>To promote sustainable fishing methods and practices.</li> </ul>  | <ul style="list-style-type: none"> <li>Strengthen the surveillance and enforcement.</li> </ul>  | <ul style="list-style-type: none"> <li>Utilization of unsustainable fishing gear as a common fishing method practice.</li> </ul>                                    | <ul style="list-style-type: none"> <li>Malaysian Maritime Enforcement Agency</li> <li>Department of Fisheries</li> </ul> |
|                                       | <b>Aquaculture</b> <ul style="list-style-type: none"> <li>To conserve cockle farming through protection of mudflat areas.</li> </ul>   | <ul style="list-style-type: none"> <li>Protect the mudflat areas due to its importance as cockle farming area.</li> </ul>                             | <ul style="list-style-type: none"> <li>Lack of protection of the cockle farming activities within the mudflat areas.</li> </ul>                                     | <ul style="list-style-type: none"> <li>Department of Fisheries</li> </ul>  |
|                                       | <b>Recreational Fisheries</b> <ul style="list-style-type: none"> <li>To improve recreational fisheries infrastructures and facilities.</li> </ul>  | <ul style="list-style-type: none"> <li>Upgrade the recreational fisheries infrastructure.</li> <li>Upgrade/Additional septic tanks/toilets</li> </ul> | <ul style="list-style-type: none"> <li>Limited recreational fisheries infrastructures and facilities.</li> </ul>  | <ul style="list-style-type: none"> <li>Local Authority</li> </ul>  |
|                                       | <ul style="list-style-type: none"> <li>To promote good recreational fishing practices in recreational fishing activities.</li> </ul>   | <ul style="list-style-type: none"> <li>Strengthen the surveillance and enforcement.</li> </ul>  | <ul style="list-style-type: none"> <li>Unregistered fishing boat for recreational fishing activities can lead to unsustainable fishing and safety issues</li> </ul> | <ul style="list-style-type: none"> <li>Malaysian Maritime Enforcement Agency</li> </ul>                                  |



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| MU07                                  | <ul style="list-style-type: none"> <li>Achieving Sustainable Development through Integrated Land Use Planning and Management</li> </ul> | <ul style="list-style-type: none"> <li>Environmental conservation and forest conservation (ESA level 1)</li> </ul> | <ul style="list-style-type: none"> <li>Hutan Paya Laut Matang – full protection forest (hutan baru &amp; hutan darat)</li> <li>Hutan Paya Laut Matang – production forest (hutan dara)</li> </ul> | <ul style="list-style-type: none"> <li>JPNPk</li> <li>PTD</li> <li>Perak State Government</li> </ul>                               |
|                                       |   | <ul style="list-style-type: none"> <li>Larut Matang Nature Trail</li> </ul>  | <ul style="list-style-type: none"> <li>The Mangrove Trail starts from Matang Mangrove Forest to Trong Jetty</li> </ul>  | <ul style="list-style-type: none"> <li>JPNPK</li> <li>PTD</li> <li>Perak State Government</li> <li>Local Authority: MPT</li> </ul> |

MU07 is similar to MU06 in term of the management objectives and strategies. The objective is to integrate land use development and sustainable environment in mangroves forest area. Due to nature of mangrove, any other agriculture activities such as palm oil, aquaculture or paddy are not encouraged due to its soil type.

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| MU07                                  | <b>Mangrove</b> <ul style="list-style-type: none"> <li>To protect, conserve and rehabilitate the mangrove areas.</li> <li>To facilitate mangrove regeneration by implementation of appropriate tools and methods</li> </ul> | <ul style="list-style-type: none"> <li>Prohibit land use conversion within MMFR into other development projects.</li> </ul>  | <ul style="list-style-type: none"> <li>Extensive protected mangroves area i.e., Matang Mangrove Forest Reserve (MMFR).</li> </ul>   | <ul style="list-style-type: none"> <li>Land Office</li> </ul>                          |
|                                       |   | <ul style="list-style-type: none"> <li>Strengthen the surveillance and enforcement.</li> </ul>   | <ul style="list-style-type: none"> <li>Development or encroachment of oil palm plantation within mangrove areas.</li> </ul>   |  |
|                                       | <b>Mudflat</b> <ul style="list-style-type: none"> <li>To protect and conserve the mudflat areas.</li> </ul>   | <ul style="list-style-type: none"> <li>No land reclamation and coastal development at MMFR areas.</li> </ul>   | <ul style="list-style-type: none"> <li>Coastal development within Perak coastline possesses adverse impacts towards adjacent mudflat areas.</li> </ul>                    | <ul style="list-style-type: none"> <li>Pejabat Tanah dan Galian (PTG) Perak</li> </ul> |
|                                       |   | <ul style="list-style-type: none"> <li>Mudflats and natural spatfall areas gazetted as fisheries protected area.</li> <li>Protect the mudflat areas due to its importance as cockle farming area.</li> </ul>   | <ul style="list-style-type: none"> <li>Mudflat areas serve as important grounds for cockle farming off Sg. Jaha to Sg. Terong</li> </ul>                                  | <ul style="list-style-type: none"> <li>Land Office</li> </ul>                          |
|                                       | <b>Marine Mammals</b> <ul style="list-style-type: none"> <li>To conserve and protect marine mammals.</li> </ul>   | <ul style="list-style-type: none"> <li>Implement and enforce fisheries regulation to restrict the use of high-risk bycatch gears especially within marine mammals' hotspot areas.</li> <li>Promote utilization of sustainable fishing gears within Important Marine Mammal Area (IMMA).</li> </ul> | <ul style="list-style-type: none"> <li>Utilization of unsustainable fishing gear could impose significant threat towards marine mammals within Perak coastline</li> </ul> | <ul style="list-style-type: none"> <li>Department of Fisheries</li> </ul>              |
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|  |   | <ul style="list-style-type: none"> <li>Collect and analyse data to help inform effective mitigation to reduce vessel collisions with marine mammals within MMFR</li> </ul> | <ul style="list-style-type: none"> <li>Marine mammals are susceptible to injury and mortality from vessel collisions.</li> </ul>  | <ul style="list-style-type: none"> <li>Department of Fisheries</li> <li>Marine Department</li> </ul>          |
|  | <b>Avifuana</b> <ul style="list-style-type: none"> <li>To protect and conserve important bird areas.</li> </ul> | <ul style="list-style-type: none"> <li>Enhance and promote the sustainable ecotourism for birdwatching at MMFR</li> </ul>  | <ul style="list-style-type: none"> <li>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.</li> </ul> | <ul style="list-style-type: none"> <li>PERHILITAN</li> </ul>  |
|  |   | <ul style="list-style-type: none"> <li>Prohibit land reclamation activities within MMFR</li> </ul>   | <ul style="list-style-type: none"> <li>Coastal development possesses adverse impacts towards important bird areas within Perak coastline especially within MMFR</li> </ul>  | <ul style="list-style-type: none"> <li>PlaNMalaysia Perak</li> <li>PERHILITAN</li> <li>Land Office</li> </ul> |

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| MU07                                  | <ul style="list-style-type: none"> <li>The mangrove forests must be preserved.</li> <li>Provide individual septic tanks (IST) for each household in the fishermen's' village upstream of Kuala Sungai Sepetang at Port Weld.</li> </ul> | <ul style="list-style-type: none"> <li>No development or conversion of the mangrove forest to other uses.</li> <li>Only research activities are allowed.</li> </ul> | <ul style="list-style-type: none"> <li>Lack of proper sewage treatment and solid waste collection system cause the water quality to deteriorate at the estuaries.</li> </ul> | <ul style="list-style-type: none"> <li>Department of Environment</li> <li>Department of Fisheries</li> <li>Department of Forestry</li> <li>Local Council</li> <li>Indah Water Konsortium</li> </ul> |