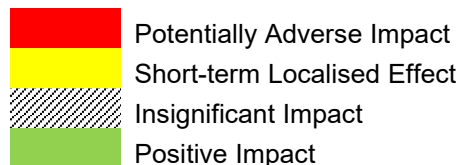


Environmental Assessment Matrix



			Activities												
			Pre-Reclamation Phase			Reclamation Phase			Post Reclamation Phase						
Environmental Component			Bathymetry Survey	Investigation / Initial Study	Land Acquisition	Access Route	Establishment of Workers Quarter & Site Office	Reclamation Works	Stormwater Management	Sewerage and Sullage	Solid Waste Disposal	Biodiversity	Traffic Circulation	Socio-economic Impact	
Physico-chemical	Land	Slope Stability	Insignificant	Insignificant	Insignificant	Insignificant	Insignificant	Short-term Localised Effect	Insignificant	Insignificant	Insignificant	Insignificant	Insignificant	Insignificant	
		Soil Erosion	Insignificant	Insignificant	Insignificant	Short-term Localised Effect	Short-term Localised Effect	Short-term Localised Effect	Insignificant	Insignificant	Insignificant	Insignificant	Insignificant	Insignificant	
		Landuse	Insignificant	Insignificant	Insignificant	Insignificant	Insignificant	Potentially Adverse Impact	Insignificant	Insignificant	Insignificant	Potentially Adverse Impact	Insignificant	Potentially Adverse Impact	
	Water	Water Quality	Insignificant	Insignificant	Insignificant	Short-term Localised Effect	Short-term Localised Effect	Short-term Localised Effect	Insignificant	Insignificant	Insignificant	Insignificant	Insignificant	Insignificant	Insignificant
		Hydrology / Hydraulics & Hydrodynamics	Insignificant	Insignificant	Insignificant	Insignificant	Insignificant	Short-term Localised Effect	Insignificant	Insignificant	Insignificant	Insignificant	Insignificant	Insignificant	Insignificant
		Drainage Pattern	Insignificant	Insignificant	Insignificant	Insignificant	Insignificant	Potentially Adverse Impact	Insignificant	Insignificant	Insignificant	Insignificant	Insignificant	Insignificant	Insignificant
		Flood	Insignificant	Insignificant	Insignificant	Insignificant	Insignificant	Insignificant	Insignificant	Insignificant	Insignificant	Insignificant	Insignificant	Insignificant	Insignificant
		Existing use	Insignificant	Insignificant	Insignificant	Insignificant	Insignificant	Potentially Adverse Impact	Insignificant	Insignificant	Insignificant	Potentially Adverse Impact	Insignificant	Potentially Adverse Impact	

	Air & Noise	Air Quality															
		Noise Level															
Marine Ecology	Marine	Terrestrial Vegetation (Mangroves)															
		Marine Productivity															
		Marine Fauna															
Human	Health & Safety	Physical Safety															
		Psychological Well-being															
		Disease															
	Socio-economic	Primary Production (Fisheries & Aquaculture)															
		Employment															
		Utilities															
		Transportation															
	Aesthetic	Water Quality															
		Air Quality															
Noise Level																	
Landscape																	

Environmental Assessment Matrix For Marine Traffic

KEY X = No impact N = Negative Impact P = Positive Impact S = Short Term (< 3 Yrs.) M = Medium Term (< 3 to 5 Yrs.) L = Long Term (> 5 Yrs.)	Traffic Flow	Navigation Safety	Fishing Traffic	Nearby Port Operation
Physical interactions				
• Transportation of sand for reclamation.	NM	NS	NM	X
• Scarring of seabed during deployment of anchors on construction			NM	
• Sedimentation and Total suspended solids			NM	
Noise				
• Noise from vessel operation			NM	
Non-scheduled/Scheduled waste				
• Disposal of sewage.	X		X	
• Disposal of food wastes.				
Non-normal events				
• Chemical spill, pipe and gas leaking	NS	NS	NM	X
• Oil spill	NS		NM	NS
Decommissioning				
Decommissioning of substructure, top side and pipelines system	PL	PL	PL	PM
Abandonment				
• Full project abandonment.	X	X	PL	
• Partial abandonment.			PM	
Interference with Resource Users				
• Navigation	NS	NS	PS	X