Appendix A

Asset register

Coastal Management Unit	Geographical limits		Unit Specific Assets	Asset	Asset type	LGA	Consequence of Impact - Erosion			Likelihood of Impact - Erosion			Risk of Erosion			Consequence of Impact - Inundation			Likelihood of Impact - Inundation			Risk of Inundation			Existing Management	Residual Risk of Erosion			Residual Risk of Inundation			Preferred Pathway	Adaptation Measure	Trigger	Alternative Pathway	Trigger
	North	South					Economic	Social	Environmental	Present	2070	2110	Present	2070	2110	Economic	Social	Environmental	Present	2070	2110	Present	2070	2110		Present	2070	2110	Present	2070	2110					
1	South Mole	North boundary of South Beach	Boat Harbours and Heritage Areas	South Mole	Coastal Structures	CoF	Not affected by erosion			Not affected by erosion			n/a	n/a	n/a	Insignificant	Insignificant	Insignificant	Possible	Possible	Almost certain	L	L	M	Groynes, seawall	n/a	n/a	n/a	L	L	M	Maintain	Increase height of breakwater	Breakwater overtopping > 1/yr (average)	Intensify	Initiation subject to development opportunities
1	South Mole	North boundary of South Beach	Boat Harbours and Heritage Areas	Challenger Boat Harbour	Coastal Structures	CoF	Not affected by erosion			Not affected by erosion			n/a	n/a	n/a	Minor	Moderate	Insignificant	Possible	Possible	Almost certain	H	H	H	Groynes, seawall	n/a	n/a	n/a	H	H	H	Maintain	Increase height of breakwater	Breakwater overtopping > 1/yr (average)	Intensify	Initiation subject to development opportunities
1	South Mole	North boundary of South Beach	Boat Harbours and Heritage Areas	Fishing Boat Harbour	Coastal Structures/ Heritage	CoF	Not affected by erosion			Not affected by erosion			n/a	n/a	n/a	Minor	Moderate	Insignificant	Possible	Possible	Almost certain	H	H	H	Groynes, seawall	n/a	n/a	n/a	H	H	H	Maintain	Increase height of breakwater	Breakwater overtopping > 1/yr (average)	Intensify	Initiation subject to development opportunities
1	South Mole	North boundary of South Beach	Boat Harbours and Heritage Areas	Success Boat Harbour	Coastal Structures/ Heritage	CoF	Not affected by erosion			Not affected by erosion			n/a	n/a	n/a	Minor	Moderate	Insignificant	Possible	Possible	Almost certain	H	H	H	Groynes, seawall	n/a	n/a	n/a	H	H	H	Maintain	Increase height of breakwater	Breakwater overtopping > 1/yr (average)	Intensify	Initiation subject to development opportunities
1	South Mole	North boundary of South Beach	Boat Harbours and Heritage Areas	Swan River Heritage Area	Heritage	CoF	Not affected by erosion			Not affected by erosion			n/a	n/a	n/a	Insignificant	Insignificant	Insignificant	Possible	Possible	Almost certain	L	L	M	Nil	n/a	n/a	n/a	L	L	M	Maintain	Increase height of breakwater, stormwater backflow devices	Breakwater overtopping or ocean inundation > 1/yr (average)	Intensify	Initiation subject to development opportunities
1	South Mole	North boundary of South Beach	Boat Harbours and Heritage Areas	Inner Harbour Heritage Area	Heritage	CoF	Not affected by erosion			Not affected by erosion			n/a	n/a	n/a	Insignificant	Insignificant	Insignificant	Possible	Possible	Almost certain	L	L	M	Nil	n/a	n/a	n/a	L	L	M	Maintain	Increase height of breakwater, stormwater backflow devices	Breakwater overtopping or ocean inundation > 1/yr (average)	Intensify	Initiation subject to development opportunities
1	South Mole	North boundary of South Beach	Boat Harbours and Heritage Areas	West End Conservation Area	Heritage	CoF	Not affected by erosion			Not affected by erosion			n/a	n/a	n/a	Moderate	Major	Insignificant	Possible	Possible	Almost certain	H	H	E	Nil	n/a	n/a	n/a	H	H	E	Maintain	Increase height of breakwater, stormwater backflow devices	Breakwater overtopping or ocean inundation > 1/yr (average)	Intensify	Initiation subject to development opportunities
1	South Mole	North boundary of South Beach	Boat Harbours and Heritage Areas	Victoria Quay Heritage Area	Heritage	CoF	Not affected by erosion			Not affected by erosion			n/a	n/a	n/a	Minor	Minor	Insignificant	Possible	Possible	Almost certain	M	M	H	Sea/river wall	n/a	n/a	n/a	M	M	H	Maintain	Increase height of breakwater, stormwater backflow devices	Breakwater overtopping or ocean inundation > 1/yr (average)	Intensify	Initiation subject to development opportunities
1	South Mole	North boundary of South Beach	Boat Harbours and Heritage Areas	Manjaree (North of Bathers Beach)	Heritage	CoF	Not affected by erosion			Not affected by erosion			n/a	n/a	n/a	Major	Moderate	Minor	Possible	Possible	Almost certain	H	H	E	Dune stabilisation, groynes, seawall, sand nourishment	n/a	n/a	n/a	H	H	E	Maintain	Increase height of breakwater, stormwater backflow devices	Breakwater overtopping or ocean inundation > 1/yr (average)	Intensify	Initiation subject to development opportunities
1	South Mole	North boundary of South Beach	Boat Harbours and Heritage Areas	Norfolk Island Pines, Norfolk Street	Heritage	CoF	Not affected by erosion			Not affected by erosion			n/a	n/a	n/a	Minor	Minor	Minor	n/a	Possible	Possible	n/a	M	M	Nil	n/a	n/a	n/a	n/a	M	M	Maintain	Increase height of breakwater, stormwater backflow devices	Breakwater overtopping or ocean inundation > 1/yr (average)	Intensify	Initiation subject to development opportunities
1	South Mole	North boundary of South Beach	Boat Harbours and Heritage Areas	South Mole Lighthouse (FPA managed)	Heritage	CoF	Not affected by erosion			Not affected by erosion			n/a	n/a	n/a	Insignificant	Minor	Insignificant	Possible	Possible	Almost certain	M	M	H	Groynes, seawall	n/a	n/a	n/a	M	M	H	Maintain	Increase height of breakwater, stormwater backflow devices	Breakwater overtopping or ocean inundation > 1/yr (average)	Intensify	Initiation subject to development opportunities
1	South Mole	North boundary of South Beach	Boat Harbours and Heritage Areas	Angelsea Point	Heritage	CoF	Not affected by erosion			Not affected by erosion			n/a	n/a	n/a	Moderate	Moderate	Minor	Rare	Possible	Possible	M	H	H	Nil	n/a	n/a	n/a	M	H	H	Maintain	Increase height of breakwater, stormwater backflow devices	Breakwater overtopping or ocean inundation > 1/yr (average)	Intensify	Initiation subject to development opportunities
1	South Mole	North boundary of South Beach	Boat Harbours and Heritage Areas	Mews Road Public Toilets	Infrastructure	CoF	Not affected by erosion			Not affected by erosion			n/a	n/a	n/a	Minor	Minor	Insignificant	n/a	Rare	Possible	n/a	L	M	Nil	n/a	n/a	n/a	n/a	L	M	Maintain	Increase height of breakwater, stormwater backflow devices	Breakwater overtopping or ocean inundation > 1/yr (average)	Intensify	Initiation subject to development opportunities
1	South Mole	North boundary of South Beach	Boat Harbours and Heritage Areas	Essex Street Public Toilets	Infrastructure	CoF	Not affected by erosion			Not affected by erosion			n/a	n/a	n/a	Minor	Minor	Insignificant	n/a	Possible	Possible	n/a	M	M	Nil	n/a	n/a	n/a	n/a	M	M	Maintain	Increase height of breakwater, stormwater backflow devices	Breakwater overtopping or ocean inundation > 1/yr (average)	Intensify	Initiation subject to development opportunities
1	South Mole	North boundary of South Beach	Boat Harbours and Heritage Areas	Cliff Street Public Toilets	Infrastructure	CoF	Not affected by erosion			Not affected by erosion			n/a	n/a	n/a	Minor	Minor	Insignificant	n/a	Possible	Possible	n/a	M	M	Raised floor	n/a	n/a	n/a	n/a	M	M	Maintain	Increase height of breakwater, stormwater backflow devices	Breakwater overtopping or ocean inundation > 1/yr (average)	Intensify	Initiation subject to development opportunities
1	South Mole	North boundary of South Beach	Boat Harbours and Heritage Areas	Centrelink	Infrastructure	CoF	Not affected by erosion			Not affected by erosion			n/a	n/a	n/a	Minor	Moderate	Insignificant	n/a	n/a	Rare	n/a	n/a	M	Nil	n/a	n/a	n/a	n/a	n/a	M	Maintain	Increase height of breakwater, stormwater backflow devices	Breakwater overtopping or ocean inundation > 1/yr (average)	Intensify	Initiation subject to development opportunities
1	South Mole	North boundary of South Beach	Boat Harbours and Heritage Areas	Elder Place Public Toilets	Infrastructure	CoF	Not affected by erosion			Not affected by erosion			n/a	n/a	n/a	Minor	Minor	Insignificant	n/a	n/a	Rare	n/a	n/a	L	Nil	n/a	n/a	n/a	n/a	n/a	L	Maintain	Increase height of breakwater, stormwater backflow devices	Breakwater overtopping or ocean inundation > 1/yr (average)	Intensify	Initiation subject to development opportunities
1	South Mole	North boundary of South Beach	Boat Harbours and Heritage Areas	Parry Street Dental Centre	Infrastructure	CoF	Not affected by erosion			Not affected by erosion			n/a	n/a	n/a	Minor	Minor	Insignificant	n/a	n/a	Rare	n/a	n/a	L	Nil	n/a	n/a	n/a	n/a	n/a	L	Maintain	Increase height of breakwater, stormwater backflow devices	Breakwater overtopping or ocean inundation > 1/yr (average)	Intensify	Initiation subject to development opportunities
1	South Mole	North boundary of South Beach	Boat Harbours and Heritage Areas	Mews Park (DoT managed)	Parks	CoF	Not affected by erosion			Not affected by erosion			n/a	n/a	n/a	Minor	Minor	Insignificant	Rare	Possible	Almost certain	L	M	H	Nil	n/a	n/a	n/a	L	M	H	Maintain	Increase height of breakwater, stormwater backflow devices	Breakwater overtopping or ocean inundation > 1/yr (average)	Intensify	Initiation subject to development opportunities
1	South Mole	North boundary of South Beach	Boat Harbours and Heritage Areas	Phillamore Gardens	Parks	CoF	Not affected by erosion			Not affected by erosion			n/a	n/a	n/a	Minor	Minor	Minor	n/a	Possible	Possible	n/a	M	M	Nil	n/a	n/a	n/a	n/a	M	M	Maintain	Increase height of breakwater, stormwater backflow devices	Breakwater overtopping or ocean inundation > 1/yr (average)	Intensify	Initiation subject to development opportunities
1	South Mole	North boundary of South Beach	Boat Harbours and Heritage Areas	Pioneer Reserve	Parks	CoF	Not affected by erosion			Not affected by erosion			n/a	n/a	n/a	Moderate	Moderate	Minor	n/a	Rare	Possible	n/a	M	H	Nil	n/a	n/a	n/a	n/a	M	H	Maintain	Increase height of breakwater, stormwater backflow devices	Breakwater overtopping or ocean inundation > 1/yr (average)	Intensify	Initiation subject to development opportunities
1	South Mole	North boundary of South Beach	Boat Harbours and Heritage Areas	Elder Park	Parks	CoF	Not affected by erosion			Not affected by erosion			n/a	n/a	n/a	Moderate	Moderate	Minor	n/a	n/a	Rare	n/a	n/a	M	Nil	n/a	n/a	n/a	n/a	n/a	M	Maintain	Increase height of breakwater, stormwater backflow devices	Breakwater overtopping or ocean inundation > 1/yr (average)	Intensify	Initiation subject to development opportunities
1	South Mole	North boundary of South Beach	Boat Harbours and Heritage Areas	Railway reserve	Parks	CoF	Not affected by erosion			Not affected by erosion			n/a	n/a	n/a	Moderate	Moderate	Minor	n/a	n/a	Rare	n/a	n/a	M	Nil	n/a	n/a	n/a	n/a	n/a	M	Maintain	Increase height of breakwater, stormwater backflow devices	Breakwater overtopping or ocean inundation > 1/yr (average)	Intensify	Initiation subject to development opportunities
1	South Mole	North boundary of South Beach	Boat Harbours and Heritage Areas	Coral Park	Parks	CoF	Not affected by erosion			Not affected by erosion			n/a	n/a	n/a	Minor	Minor	Minor	n/a	n/a	Possible	n/a	n/a	M	Nil	n/a	n/a	n/a	n/a	n/a	M	Maintain	Increase height of breakwater, stormwater backflow devices	Breakwater overtopping or ocean inundation > 1/yr (average)	Intensify	Initiation subject to development opportunities
1	South Mole	North boundary of South Beach	Boat Harbours and Heritage Areas	Florence Park	Parks	CoF	Not affected by erosion			Not affected by erosion			n/a	n/a	n/a	Minor	Minor	Insignificant	n/a	n/a	Rare	n/a	n/a	L	Nil	n/a	n/a	n/a	n/a	n/a	L	Maintain	Increase height of breakwater, stormwater backflow devices	Breakwater overtopping or ocean inundation > 1/yr (average)	Intensify	Initiation subject to development opportunities
1	South Mole	North boundary of South Beach	Boat Harbours and Heritage Areas	Esplanade Reserve	Parks/ Heritage	CoF	Not affected by erosion			Not affected by erosion			n/a	n/a	n/a	Major	Major	Minor	n/a	Possible	Possible	n/a	H	H	Nil	n/a	n/a	n/a	n/a	H	H	Maintain	Increase height of breakwater, stormwater backflow devices	Breakwater overtopping or ocean inundation > 1/yr (average)	Intensify	Initiation subject to development opportunities
1	South Mole	North boundary of South Beach	Boat Harbours and Heritage Areas	Arthur Head Reserve (including Bathers Beach)	Parks/ Heritage	CoF	Not affected by erosion			Not affected by erosion			n/a	n/a	n/a	Major	Major	Minor	Possible	Possible	Almost certain	H	H	E	Dune stabilisation, partial seawall, groyne	n/a	n/a	n/a	H	E	E	Maintain	Increase height of breakwater, stormwater backflow devices	Breakwater overtopping or ocean inundation > 1/yr (average)	Intensify	Initiation subject to development opportunities
1	South Mole	North boundary of South Beach	Boat Harbours and Heritage Areas	Fremantle Station Building and Bus Exchange	Private/Government	PTA/BR	Not affected by erosion			Not affected by erosion			n/a	n/a	n/a	Moderate	Moderate	Insignificant	n/a	n/a	Rare	n/a	n/a	M	Nil	n/a	n/a	n/a	n/a	n/a	M	Maintain	Increase height of breakwater, stormwater backflow devices	Breakwater overtopping or ocean inundation > 1/yr (average)	Intensify	Initiation subject to development opportunities
1	South Mole	North boundary of South Beach	Boat Harbours and Heritage Areas	Public Buildings	Infrastructure	CoF	Major	Major	Insignificant	n/a	Rare	Possible	n/a	M	H	Minor	Moderate	Insignificant	n/a	Possible	Possible	n/a	H	H	Fishing Boat Harbour, seawall, dune stabilisation	n/a	M	H	n/a	H	H	Maintain	Sand nourishment, dune restoration, stormwater backflow devices	Net dune retreat > 20 metres or ocean inundation > 1/yr (average)	-	-
2	North boundary of South Beach	North boundary Pickled Fig Café	South Beach and Heritage Areas	South Beach Groynes	Coastal Structures	CoF	Moderate	Insignificant	Insignificant	Almost certain	Almost certain	Almost certain	H	H	H	Erosion dominates			Erosion dominates			n/a	n/a	n/a	Rock armament	H	H	H	n/a	n/a	n/a	Maintain	Increase height of groyne	Groyne overtopping > 1/yr (average)	-	-
2	North boundary of South Beach	North boundary Pickled Fig Café	South Beach and Heritage Areas	South Beach	Parks	CoF	Major	Catastrophic	Moderate	Almost certain	Almost certain	Almost certain	E	E	E	Moderate	Moderate	Minor	Almost certain	Almost certain	Almost certain	H	H	H	Dune stabilisation, groynes, seawall, sand nourishment	E	E	E	H	H	H	Maintain	Sand nourishment, dune restoration	Net dune retreat > 20 m	-	-
2	North boundary of South Beach	North boundary Pickled Fig Café	South Beach and Heritage Areas	South Beach Public Toilets & Change rooms	Infrastructure	CoF	Moderate	Minor	Insignificant	n/a	Rare	Possible	n/a	M	H	Erosion dominates			Erosion dominates			n/a	n/a	n/a	Dune stabilisation, groynes, seawall	n/a	M	H	n/a	n/a	n/a	Maintain	Sand nourishment, dune restoration	Net dune retreat > 20 m	-	-
2	North boundary of South Beach	North boundary Pickled Fig Café	South Beach and Heritage Areas	Wilson Park	Parks	CoF	Minor	Moderate	Minor	n/a	Rare	Possible	n/a	M	H	Moderate	Moderate	Minor	n/a	Rare	Possible	n/a	M	H	Dune stabilisation, groynes, seawall, PTA railway	n/a	M	H	n/a	M	H	Maintain	Sand nourishment, dune restoration	Net dune retreat > 20 m	-	-
2	North boundary of South Beach	North boundary Pickled Fig Café	South Beach and Heritage Areas	Wilson Park Ficus Trees	Heritage	CoF	Not affected by erosion			Not affected by erosion			n/a	n/a	n/a	Minor	Minor	Moderate	n/a	Rare	Possible	n/a	M	H	Dune stabilisation, groynes, seawall, sand nourishment	n/a	n/a	n/a	n/a	M	H	Maintain	Sand nourishment, dune restoration	Net dune retreat > 20 m	-	-
1, 2	South Mole	North boundary Pickled Fig Café		South Fremantle Heritage Area	Heritage	CoF	Minor	Minor	Insignificant	Possible	Almost certain	Almost certain	M	H	H	Moderate	Major	Insignificant	Almost certain	Almost certain	Almost certain	E	E	E	Fishing Boat Harbour	M	H	H	E	E	E	Maintain	Sand nourishment, dune restoration, stormwater backflow devices	Net dune retreat > 20 m or ocean inundation > 1/yr (average)	-	-
1, 2	South Mole	North boundary Pickled Fig Café		Owen Anchorage Railway	Heritage	CoF	Insignificant	Minor	Insignificant	Rare	Possible	Almost certain	L	M	H	Insignificant	Insignificant	Insignificant	Rare	Possible	Almost certain	L	L	H	Dune stabilisation, groynes, seawall, sand nourishment	L	M	H	L	L	H	Maintain	Sand nourishment, dune restoration, stormwater backflow devices	Net dune retreat > 20 m or ocean inundation > 1/yr (average)	-	-
1, 2	South Mole	North boundary Pickled Fig Café		Footpath area	Infrastructure	CoF	Minor	Moderate	Insignificant	Possible	Almost certain	Almost certain	H	H	H	Insignificant	Minor	Insignificant	Almost certain	Almost certain	Almost certain	H	H	H	Fishing Boat Harbour, seawall, dune stabilisation	H	H	H	H	H	H	Maintain	Sand nourishment, dune restoration, stormwater backflow devices	Net dune retreat > 20 m or ocean inundation > 1/yr (average)	-	-
1, 2	South Mole	North boundary Pickled Fig Café		Road	Infrastructure	CoF	Moderate	Major	Insignificant	Possible	Almost certain	Almost certain	H	E	E	Minor	Minor	Insignificant	Almost certain	Almost certain	Almost certain	H	H	H	Fishing Boat Harbour, seawall, dune stabilisation	H	E	E	H	H	H	Maintain	Sand nourishment, dune restoration, stormwater backflow devices	Net dune retreat > 20 m or ocean inundation > 1/yr (average)	-	-
1, 2	South Mole	North boundary Pickled Fig Café		Habitat (all vegetation outside of the listed parks)	Parks	CoF	Insignificant	Minor	Minor	Possible	Almost certain	Almost certain	M	H	H	Insignificant	Insignificant	Minor	Almost certain	Almost certain	Almost certain	H	H	H	Nil	M	H	H	H	H	H	Maintain	Sand nourishment, dune restoration	Net dune retreat > 20 m	-	-

Coastal Management Unit	Geographical limits		Unit Specific Assets	Asset	Asset type	LGA	Consequence of Impact - Erosion			Likelihood of Impact - Erosion			Risk of Erosion			Consequence of Impact - Inundation			Likelihood of Impact - Inundation			Risk of Inundation			Existing Management	Residual Risk of Erosion			Residual Risk of Inundation			Preferred Pathway	Adaptation Measure	Trigger	Alternative Pathway	Trigger
	North	South					Economic	Social	Environmental	Present	2070	2110	Present	2070	2110	Economic	Social	Environmental	Present	2070	2110	Present	2070	2110		Present	2070	2110	Present	2070	2110					
1, 2	South Mole	North boundary Pickled Fig Café		Electricity lines	Utilities	CoF	Major	Major	Minor	Possible	Almost certain	Almost certain	H	E	E	Major	Major	Insignificant	Almost certain	Almost certain	Almost certain	E	E	E	Nil	H	E	E	E	E	E	Maintain	Sand nourishment, dune restoration	Net dune retreat > 20 m	-	-
1, 2	South Mole	North boundary Pickled Fig Café		Stormwater lines	Utilities	CoF	Minor	Minor	Minor	Almost certain	Almost certain	Almost certain	H	H	H	Minor	Minor	Insignificant	Almost certain	Almost certain	Almost certain	H	H	H	Nil	H	H	H	H	H	H	Maintain	Sand nourishment, dune restoration	Net dune retreat > 20 m	-	-
1, 2	South Mole	North boundary Pickled Fig Café		Individual heritage listed buildings, sites and items	Heritage	CoF	Moderate	Moderate	Minor	n/a	Rare	Possible	n/a	M	H	Moderate	Moderate	Minor	n/a	Possible	Possible	n/a	H	H	Fishing Boat Harbour, groynes, seawall	n/a	M	H	n/a	H	H	Maintain	Sand nourishment, dune restoration, stormwater backflow devices	Net dune retreat > 20 m or ocean inundation > 1/yr (average)	-	-
1, 2	South Mole	North boundary Pickled Fig Café		Oil and Gas lines	Utilities	CoF	Major	Major	Moderate	n/a	Rare	Possible	n/a	M	H	Minor	Insignificant	Insignificant	n/a	Rare	Possible	n/a	L	M	Nil	n/a	M	H	n/a	L	M	Maintain	Sand nourishment, dune restoration	Net dune retreat > 20 m	-	-
1, 2	South Mole	North boundary Pickled Fig Café		Water Supply lines	Utilities	CoF	Insignificant	Major	Insignificant	n/a	Rare	Possible	n/a	M	H	Insignificant	Insignificant	Insignificant	n/a	Possible	Possible	n/a	L	L	Nil	n/a	M	H	n/a	L	L	Maintain	Sand nourishment, dune restoration	Net dune retreat > 20 m	-	-
1, 2	South Mole	North boundary Pickled Fig Café		Water Supply points (meters/hydrants)	Utilities	CoF	Insignificant	Major	Insignificant	n/a	Rare	Possible	n/a	M	H	Insignificant	Insignificant	Insignificant	n/a	Possible	Possible	n/a	L	L	Nil	n/a	M	H	n/a	L	L	Maintain	Sand nourishment, dune restoration	Net dune retreat > 20 m	-	-
1, 2	South Mole	North boundary Pickled Fig Café		Sewerage lines	Utilities	CoF	Insignificant	Major	Insignificant	n/a	Rare	Possible	n/a	M	H	Insignificant	Insignificant	Insignificant	Possible	Possible	Almost certain	L	L	M	Nil	n/a	M	H	L	L	M	Maintain	Sand nourishment, dune restoration	Net dune retreat > 20 m	-	-
1, 2	South Mole	North boundary Pickled Fig Café		Sewerage points	Utilities	CoF	Insignificant	Major	Insignificant	n/a	Rare	Possible	n/a	M	H	Insignificant	Insignificant	Insignificant	Rare	Possible	Almost certain	L	L	M	Nil	n/a	M	H	L	L	M	Maintain	Sand nourishment, dune restoration	Net dune retreat > 20 m	-	-
1, 2	South Mole	North boundary Pickled Fig Café		Stormwater points	Utilities	CoF	Minor	Minor	Minor	n/a	Rare	Possible	n/a	L	M	Minor	Minor	Insignificant	Rare	Possible	Almost certain	n/a	M	H	Nil	n/a	L	M	n/a	M	H	Maintain	Sand nourishment, dune restoration	Net dune retreat > 20 m	-	-
3	North boundary Pickled Fig Café	South extent of Robb Road	Power Station Redevelopment Site (Cockburn Coast), C. Y. O'Connor Reserve	C. Y. O'Connor Reserve including C. Y. O'Connor Memorial and South Beach (Horse Exercise Area)	Parks	CoC	Moderate	Major	Moderate	Almost certain	Almost certain	Almost certain	E	E	E	Minor	Moderate	Minor	Almost certain	Erosion dominates	Erosion dominates	H	n/a	n/a	2 groynes to the north and south, Catherine Point groyne to the north contributes to erosion at C Y O'Connor Reserve but helps protect North Coogee/Island Reserve, dune revegetation	E	E	E	H	n/a	n/a	Maintain	Sand nourishment, dune restoration	Net dune retreat > 20 m	Intensify	Initiation subject to development opportunities
3	North boundary Pickled Fig Café	South extent of Robb Road	Power Station Redevelopment Site (Cockburn Coast), C. Y. O'Connor Reserve	Islands Reserve	Parks	CoC	Minor	Minor	Insignificant	Rare	Possible	Almost certain	L	M	H	Erosion dominates			Erosion dominates			n/a	n/a	n/a	Seawall (Islands development), groyne, Catherine Point groyne to the south	L	M	H	n/a	n/a	n/a	Maintain	Sand nourishment, dune restoration	Net dune retreat > 20 m	Intensify	Initiation subject to development opportunities
3	North boundary Pickled Fig Café	South extent of Robb Road	Power Station Redevelopment Site (Cockburn Coast), C. Y. O'Connor Reserve	Lot 43701 (north of Port Coogee)	Parks	CoC	Minor	Minor	Minor	Possible	Almost certain	Almost certain	M	H	H	Insignificant	Insignificant	Insignificant	Almost certain	Erosion dominates	Erosion dominates	M	n/a	n/a	Breakwater (Port Coogee), northern groyne	M	H	H	M	n/a	n/a	Maintain	Sand nourishment, dune restoration	Net dune retreat > 20 m	Intensify	Initiation subject to development opportunities
3	North boundary Pickled Fig Café	South extent of Robb Road	Power Station Redevelopment Site (Cockburn Coast), C. Y. O'Connor Reserve	Robb Jetty Camp (indigenous land use)	Heritage	CoC	Insignificant	Minor	Insignificant	Almost certain	Almost certain	Almost certain	H	H	H	Insignificant	Insignificant	Insignificant	Almost certain	Erosion dominates	Erosion dominates	M	n/a	n/a	Dune rehabilitation between 2 groynes	H	H	H	M	n/a	n/a	Maintain	Sand nourishment, dune restoration	Net dune retreat > 20 m	Intensify	Initiation subject to development opportunities
3	North boundary Pickled Fig Café	South extent of Robb Road	Power Station Redevelopment Site (Cockburn Coast), C. Y. O'Connor Reserve	South Fremantle Power Station	Heritage/ Private	CoC /LandCorp	Major	Catastrophic	Minor	Almost certain	Almost certain	Almost certain	E	E	E	Moderate	Major	Insignificant	Almost certain	Almost certain	Almost certain	E	E	E	Seawall, 2 groynes	E	E	E	E	E	E	Maintain	Sand nourishment, protection using coastal structure	Net dune retreat > 20 m	Intensify	Initiation subject to development opportunities
3	North boundary Pickled Fig Café	South extent of Robb Road	Power Station Redevelopment Site (Cockburn Coast), C. Y. O'Connor Reserve	Groynes/seawalls	Coastal Structures	CoC	Major	Insignificant	Insignificant	Almost certain	Almost certain	Almost certain	E	E	E	Erosion dominates			Erosion dominates			n/a	n/a	n/a	Rebuild/ repair as required	E	E	E	n/a	n/a	n/a	Maintain	Increase height of groyne	Groyne overtopping > 1/yr (average)	Intensify	Initiation subject to development opportunities
3	North boundary Pickled Fig Café	South extent of Robb Road	Power Station Redevelopment Site (Cockburn Coast), C. Y. O'Connor Reserve	Power Station Redevelopment Site (Cockburn Coast)	Private/Government	LandCorp	Moderate	Moderate	Insignificant	Almost certain	Almost certain	Almost Certain	H	H	H	Minor	Moderate	Insignificant	Almost certain	Erosion dominates	Erosion dominates	H	n/a	n/a	Development setback, seawall, groyne, natural accretion	M	H	H	H	n/a	n/a	Maintain	Sand nourishment and protection using coastal structure	Net dune retreat > 20 m	Intensify	Initiation subject to development opportunities
3	North boundary Pickled Fig Café	South extent of Robb Road	Power Station Redevelopment Site (Cockburn Coast), C. Y. O'Connor Reserve	Limestone Office on Bradken Site	Heritage	CoC	Insignificant	Insignificant	Insignificant	n/a	Rare	Possible	n/a	L	L	Erosion dominates			Erosion dominates			n/a	n/a	n/a	Nil	n/a	L	L	n/a	n/a	n/a	Maintain	Sand nourishment, protection using coastal structure	Net dune retreat > 20 m	Intensify	Initiation subject to development opportunities
3	North boundary Pickled Fig Café	South extent of Robb Road	Power Station Redevelopment Site (Cockburn Coast), C. Y. O'Connor Reserve	Barrow Park	Parks	CoC	Moderate	Minor	Minor	n/a	n/a	Rare	n/a	n/a	M	Erosion dominates			Erosion dominates			n/a	n/a	n/a	Seawall, 2 groynes, setback	n/a	n/a	M	n/a	n/a	n/a	Maintain	Sand nourishment, dune restoration	Net dune retreat > 20 m	Intensify	Initiation subject to development opportunities
3	North boundary Pickled Fig Café	South extent of Robb Road	Power Station Redevelopment Site (Cockburn Coast), C. Y. O'Connor Reserve	Catherine Point Public Toilets	Infrastructure	CoC	Moderate	Minor	Insignificant	n/a	n/a	Rare	n/a	n/a	M	Erosion dominates			Erosion dominates			n/a	n/a	n/a	Dune revegetation	n/a	n/a	M	n/a	n/a	n/a	Maintain	Relocation of asset, sand nourishment, dune restoration	Net dune retreat > 20 m	Intensify	Initiation subject to development opportunities
1, 2, 3	South Mole	South extent of Robb Road	Power Station Redevelopment Site (Cockburn Coast), C. Y. O'Connor Reserve	Freight Rail line	Private/Government	PTA/BR	Catastrophic	Catastrophic	Insignificant	Rare	Possible	Almost Certain	H	H	E	Major	Moderate	Insignificant	Rare	Possible	Almost certain	M	H	E	South Beach groynes, Catherine Point groyne, Robb Road groynes	H	H	E	M	H	E	Maintain	Sand nourishment, protection using coastal structure	Net dune retreat > 20 m	Intensify	Initiation subject to development opportunities
4	South extent of Robb Road	Socrates Road/Pelinte View intersection	Port Coogee	Port Coogee Development including Chelydra Park	Private/Government	Australand	Not affected by erosion			Not affected by erosion			n/a	n/a	n/a	Minor	Minor	Insignificant	Almost Certain	Almost Certain	Almost Certain	H	H	H	Fill to design level (3.3 m AHD)	n/a	n/a	n/a	H	H	H	Maintain	Increase height of breakwater	Breakwater overtopping or ocean inundation > 1/yr (average)	Intensify	Initiation subject to development opportunities
5	Socrates Road/Pelinte View intersection	South boundary of Coogee Beach Surf Life Saving Club	Coogee Beach Reserve	Coogee Beach Reserve	Parks	CoC	Major	Catastrophic	Moderate	Almost certain	Almost certain	Almost certain	E	E	E	Moderate	Moderate	Minor	Almost certain	Erosion dominates	Erosion dominates	H	n/a	n/a	Dune stabilisation, wide setback	H	E	E	H	n/a	n/a	Retreat	Dune management	Nil	Maintain	Restore/maintain existing conditions when net dune retreat > 20 m
5	Socrates Road/Pelinte View intersection	South boundary of Coogee Beach Surf Life Saving Club	Coogee Beach Reserve	Coogee Beach Toilets	Infrastructure	CoC	Moderate	Moderate	Insignificant	Rare	Possible	Almost certain	M	H	H	Erosion dominates			Erosion dominates			n/a	n/a	n/a	Dune revegetation, sand bypassing, setback	M	H	H	n/a	n/a	n/a	Retreat	Relocation of asset, sand nourishment, dune restoration	Asset compromised by erosion	Maintain	Protect/maintain existing conditions when net dune retreat > 20 m
5	Socrates Road/Pelinte View intersection	South boundary of Coogee Beach Surf Life Saving Club	Coogee Beach Reserve	Coogee Beach Swimming Jetty	Infrastructure/Heritage	CoC	Minor	Minor	Insignificant	Possible	Almost certain	Almost certain	H	E	E	Erosion dominates			Erosion dominates			n/a	n/a	n/a	Sand bypassing	H	E	E	n/a	n/a	n/a	Retreat	Decommissioning of structure	Asset compromised by erosion	Maintain	Protect/maintain existing conditions when net dune retreat > 20 m
5	Socrates Road/Pelinte View intersection	South boundary of Coogee Beach Surf Life Saving Club	Coogee Beach Reserve	Coogee Beach Wheelchair Ramp	Infrastructure	CoC	Minor	Minor	Insignificant	Rare	Possible	Almost certain	L	M	H	Erosion dominates			Erosion dominates			n/a	n/a	n/a	Nil	L	M	H	n/a	n/a	n/a	Retreat	Relocation of asset, sand nourishment, dune restoration	Asset compromised by erosion	Maintain	Protect/maintain existing conditions when net dune retreat > 20 m
5	Socrates Road/Pelinte View intersection	South boundary of Coogee Beach Surf Life Saving Club	Coogee Beach Reserve	Coogee Beach Surf Lifesaving Club	Infrastructure	CoC	Major	Major	Minor	Almost certain	Almost certain	Almost certain	E	E	E	Minor	Minor	Insignificant	Almost certain	Erosion dominates	Erosion dominates	H	n/a	n/a	Dune revegetation	E	E	E	H	n/a	n/a	Retreat	Relocation of asset, sand nourishment, dune restoration	Asset compromised by erosion	Maintain	Protect/maintain existing conditions when net dune retreat > 20 m
3, 5				Water Supply lines	Utilities	CoC	Minor	Major	Insignificant	Possible	Almost certain	Almost certain	H	E	E	Insignificant	Insignificant	Insignificant	Almost certain	Erosion dominates	Erosion dominates	M	n/a	n/a	Nil	H	E	E	M	n/a	n/a	Maintain	Relocation of asset, sand nourishment, dune restoration	Net dune retreat > 20 m	-	-
3, 5				Sewerage areas (septic tanks)	Utilities	CoC	Moderate	Major	Moderate	Rare	Possible	Almost cer	M	H	E	Erosion dominates			Erosion dominates			n/a	n/a	n/a	Nil	M	H	E	n/a	n/a	n/a	Maintain	Relocation of asset, sand nourishment, dune restoration	Net dune retreat > 20 m	-	-
3, 5				Sewerage lines	Utilities	CoC	Moderate	Major	Moderate	Possible	Almost certain	Almost certain	H	E	E	Minor	Minor	Minor	Almost certain	Erosion dominates	Erosion dominates	H	n/a	n/a	Nil	H	E	E	H	n/a	n/a	Maintain	Relocation of asset, sand nourishment, dune restoration	Net dune retreat > 20 m	-	-
3, 5				Habitat areas	Parks	CoC	Minor	Minor	Moderate	Almost certain	Almost certain	Almost certain	H	H	H	Insignificant	Insignificant	Minor	Almost certain	Erosion dominates	Erosion dominates	H	n/a	n/a	Revegetation and weed control enhances resilience	H	H	H	H	n/a	n/a	Variable	Dune management	Nil	-	-
3, 4, 5	North boundary Pickled Fig Café	Socrates Road/Pelinte View intersection		Stormwater lines	Utilities	CoC	Minor	Minor	Insignificant	Rare	Possible	Almost certain	L	M	H	Insignificant	Insignificant	Insignificant	Possible	Possible	Almost certain	L	L	M	Nil	L	M	H	L	L	M	Maintain	Relocation of asset, sand nourishment, dune restoration	Net dune retreat > 20 m	-	-
3, 4, 5	North boundary Pickled Fig Café	Socrates Road/Pelinte View intersection		Stormwater points	Utilities	CoC	Minor	Minor	Insignificant	Rare	Possible	Almost certain	L	M	H	Insignificant	Insignificant	Insignificant	Possible	Possible	Almost certain	L	L	M	Nil	L	M	H	L	L	M	Maintain	Relocation of asset, sand nourishment, dune restoration	Net dune retreat > 20 m	-	-

Coastal Management Unit	Geographical limits		Unit Specific Assets	Asset	Asset type	LGA	Consequence of Impact - Erosion			Likelihood of Impact - Erosion			Risk of Erosion			Consequence of Impact - Inundation			Likelihood of Impact - Inundation			Risk of Inundation			Existing Management	Residual Risk of Erosion			Residual Risk of Inundation			Preferred Pathway	Adaptation Measure	Trigger	Alternative Pathway	Trigger
	North	South					Economic	Social	Environmental	Present	2070	2110	Present	2070	2110	Economic	Social	Environmental	Present	2070	2110	Present	2070	2110		Present	2070	2110	Present	2070	2110					
6	South boundary of Coogee Beach Surf Life Saving Club	West boundary of Jervoise Bay Sailing Club	Woodman Point Regional Park	Magazine Jetty (Woodman Point Jetty)	Heritage	CoC	Major	Major	Insignificant	Possible	Almost certain	Almost certain	H	E	E	Erosion dominates			Erosion dominates			n/a	n/a	n/a	Nil	H	E	E	n/a	n/a	n/a	Retreat	Decommissioning of structure	Asset compromised by erosion	Maintain	Protect/maintain existing conditions when net dune retreat > 20 m
6	South boundary of Coogee Beach Surf Life Saving Club	West boundary of Jervoise Bay Sailing Club	Woodman Point Regional Park	Jervois Bay Sailing Club	Infrastructure	CoC	Moderate	Major	Insignificant	Almost certain	Almost certain	Almost certain	E	E	E	Minor	Minor	Insignificant	Almost certain	Erosion dominates	Erosion dominates	H	n/a	n/a	Small rock armour	E	E	E	H	n/a	n/a	Retreat	Decommissioning of structure	Asset compromised by erosion	Maintain	Protect/maintain existing conditions when net dune retreat > 20 m
6	South boundary of Coogee Beach Surf Life Saving Club	West boundary of Jervoise Bay Sailing Club	Woodman Point Regional Park	Quarantine Station	Heritage	CoC	Not affected by erosion			Not affected by erosion			n/a	n/a	n/a	Minor	Minor	Insignificant	n/a	Rare	Possible	n/a	L	M	Nil	n/a	n/a	n/a	n/a	L	M	Retreat	Decommissioning of structure	Asset compromised by erosion	Maintain	Protect/maintain existing conditions when net dune retreat > 20 m
7	West boundary of Jervoise Bay Sailing Club	West boundary of Woodman Point Facility	Woodman Point Regional Park, Cockburn Cement Washplant	Washplant	Private/Government	Cockburn Cement	Catastrophic	Insignificant	Insignificant	Rare	Possible	Almost Certain	H	H	E	Catastrophic	Insignificant	Insignificant	Rare	Possible	Almost Certain	H	H	E	Rockwallm small beach	H	H	E	H	H	E	Retreat	Relocation of asset, sand nourishment, dune restoration	Asset compromised by erosion	Maintain	Protect/maintain existing conditions when net dune retreat > 20 m
7	West boundary of Jervoise Bay Sailing Club	West boundary of Woodman Point Facility	Woodman Point Regional Park, Cockburn Cement Washplant	Reclaimer Jetty	Private/Government	Cockburn Cement	Catastrophic	Insignificant	Insignificant	Almost Certain	Almost Certain	Almost Certain	E	E	E	Catastrophic	Insignificant	Insignificant	Almost Certain	Erosion dominates	Erosion dominates	E	n/a	n/a	Design standards	E	E	E	E	n/a	n/a	Retreat	Relocation of asset, sand nourishment, dune restoration	Asset compromised by erosion	Maintain	Protect/maintain existing conditions when net dune retreat > 20 m
6, 7	South boundary of Coogee Beach Surf Life Saving Club	West boundary of Woodman Point Facility		Woodman Point Regional Park	Parks	CoC	Moderate	Major	Major	Almost certain	Almost certain	Almost certain	E	E	E	Moderate	Major	Major	Almost certain	Almost certain	Almost certain	E	E	E	Dune revegetation, groynes, detached breakwater	E	E	E	E	E	E	Retreat	Dune management	Nil		
6, 7	South boundary of Coogee Beach Surf Life Saving Club	West boundary of Woodman Point Facility		Woodman Point Sewerage Outfall	Infrastructure	CoC	Major	Major	Major	Almost certain	Almost certain	Almost certain	E	E	E	Minor	Minor	Minor	Almost certain	Almost certain	Almost certain	H	H	H	Nil	E	E	E	H	H	H	Retreat	Relocation of asset, sand nourishment, dune restoration	Asset compromised by erosion	Maintain	Protect/maintain existing conditions when net dune retreat > 20 m
8	West boundary of Woodman Point Facility	South boundary of AMC	Woodman Point Facility and AMC	Woodman Point Boating Facilities (DoT)	Coastal Structures	CoC	Major	Major	Insignificant	Almost certain	Almost certain	Almost certain	E	E	E	Minor	Moderate	Insignificant	Almost certain	Almost certain	Almost certain	H	H	H	Nil	E	E	E	H	H	H	Intensify	-	Initiation subject to development opportunities	-	-
8	West boundary of Woodman Point Facility	South boundary of AMC	Woodman Point Facility and AMC	AMC	Private/Government	LandCorp	Not affected by erosion			Not affected by erosion			n/a	n/a	n/a	Moderate	Minor	Insignificant	Possible	Possible	Almost Certain	H	H	H	Breakwater built levels	n/a	n/a	n/a	H	H	H	Intensify	-	Initiation subject to development opportunities	-	-
3, 5, 6, 7, 8				Footpath point features (ramps, handrails, bollards)	Infrastructure	CoC	Minor	Minor	Insignificant	n/a	n/a	Rare	n/a	n/a	L	Insignificant	Insignificant	Insignificant	n/a	n/a	Rare	n/a	n/a	L	Nil	n/a	n/a	L	n/a	n/a	L	Variable	Relocation of asset, sand nourishment, dune restoration	Asset compromised by erosion	-	-
3, 4, 5, 6, 7, 8	North boundary Pickled Fig Café	South boundary of AMC		Roads	Infrastructure	CoC	Major	Major	Insignificant	Possible	Almost certain	Almost certain	H	E	E	Minor	Minor	Insignificant	Almost certain	Almost certain	Almost certain	H	H	H	Nil	H	E	E	H	H	H	Variable	Relocation of asset, sand nourishment, dune restoration	Erosion within 10 m of asset	-	-
9	South boundary of AMC	South boundary of Naval Base Shacks camp ground	Henderson Cliffs Reserve	Henderson Cliffs Reserve	Parks	CoC	Not affected by erosion			Not affected by erosion			n/a	n/a	n/a	Insignificant	Insignificant	Insignificant	Possible	Possible	Almost certain	L	L	M	Nil	n/a	n/a	n/a	L	L	M	Retreat	Nil	Nil	-	-
9	South boundary of AMC	South boundary of Naval Base Shacks camp ground	Henderson Cliffs Reserve	Naval Base Shacks and associated infrastructure	Parks/Infrastructure	CoC	Not affected by erosion			Not affected by erosion			n/a	n/a	n/a	Moderate	Moderate	Minor	Possible	Possible	Almost certain	H	H	H	Dune rehabilitation	n/a	n/a	n/a	H	H	H	Retreat	-	-	-	-
3, 4, 5, 6, 7, 8, 9	North boundary Pickled Fig Café	South boundary of Naval Base Shacks camp ground		Footpath	Infrastructure	CoC	Moderate	Moderate	Insignificant	Possible	Almost certain	Almost certain	H	H	H	Insignificant	Minor	Insignificant	Almost certain	Almost certain	Almost certain	H	H	H	Relocation of paths	H	H	H	H	H	H	Variable	Relocation of asset, sand nourishment, dune restoration	Asset compromised by erosion	-	-
10	South boundary of Naval Base Shacks camp ground	South boundary of Kwinana Power Station	Challenger Beach, Alcoa, Kwinana Power Station	Challenger Beach	Parks	CoK	Moderate	Catastrophic	Catastrophic	Almost cer	Almost cer	Almost cer	E	E	E	Minor	Moderate	Moderate	Almost certain	Almost certain	Almost certain	H	H	H	Dune rehabilitation	E	E	E	H	H	H	Maintain	Relocation of asset, sand nourishment, dune restoration	Net dune retreat > 20 m	Intensify	Initiation subject to development opportunities
10	South boundary of Naval Base Shacks camp ground	South boundary of Kwinana Power Station	Challenger Beach, Alcoa, Kwinana Power Station	Challenger Beach Boat Ramp	Coastal Structures	CoK	Moderate	Moderate	Insignificant	Almost certain	Almost certain	Almost certain	H	H	H	Erosion dominates			Erosion dominates			n/a	n/a	n/a	Renewal/ upgrade	H	H	H	n/a	n/a	n/a	Maintain	Relocation of asset, sand nourishment, dune restoration	Asset compromised by erosion	Intensify	Initiation subject to development opportunities
10	South boundary of Naval Base Shacks camp ground	South boundary of Kwinana Power Station	Challenger Beach, Alcoa, Kwinana Power Station	Kwinana Power Station	Private/Government	Synergy	Catastrophic	Catastrophic	Insignificant	Almost certain	Almost certain	Almost Certain	E	E	E	Major	Major	Insignificant	Almost certain	Erosion dominates	Erosion dominates	E	n/a	n/a	Groyne	H	H	H	H	n/a	n/a	Maintain	Relocation or protection of asset, sand nourishment, dune restoration	Erosion within 10 m of asset	Intensify	Initiation subject to development opportunities
10	South boundary of Naval Base Shacks camp ground	South boundary of Kwinana Power Station	Challenger Beach, Alcoa, Kwinana Power Station	Refinery	Private/Government	Alcoa	Catastrophic	Insignificant	Insignificant	Almost certain	Almost certain	Almost Certain	E	E	E	Major	Insignificant	Insignificant	Almost certain	Erosion dominates	Erosion dominates	E	n/a	n/a	Nil	E	E	E	E	n/a	n/a	Maintain	Relocation or protection of asset, sand nourishment, dune restoration	Erosion within 10 m of asset	Intensify	Initiation subject to development opportunities
11	South boundary of Kwinana Power Station	South boundary of Kwinana Bulk Jetty	Kwinana Industries	Stormwater lines	Utilities	CoK	Minor	Minor	Insignificant	Rare	Possible	Almost cer	L	M	H	Erosion dominates			Erosion dominates			n/a	n/a	n/a	As per current management	L	M	H	n/a	n/a	n/a	Intensify	-	Initiation subject to development opportunities	Maintain	Protect existing conditions when erosion within 10 m of asset
11	South boundary of Kwinana Power Station	South boundary of Kwinana Bulk Jetty	Kwinana Industries	Barter Road Beach	Parks	CoK	Minor	Moderate	Moderate	Almost cer	Almost cer	Almost cer	H	H	H	Insignificant	Minor	Minor	Almost certain	Erosion dominates	Erosion dominates	H	n/a	n/a	Nil	H	H	H	H	n/a	n/a	Intensify	-	Initiation subject to development opportunities	Maintain	Protect existing conditions when erosion within 10 m of asset
11	South boundary of Kwinana Power Station	South boundary of Kwinana Bulk Jetty	Kwinana Industries	BP James Point	Parks	CoK	Moderate	Minor	Major	Almost cer	Almost cer	Almost cer	E	E	E	Minor	Insignificant	Moderate	Almost certain	Almost certain	Almost certain	H	H	H	Maintenance of tombolos and vegetation	H	H	H	H	H	H	Intensify	-	Initiation subject to development opportunities	Maintain	Protect existing conditions when erosion within 10 m of asset
11	South boundary of Kwinana Power Station	South boundary of Kwinana Bulk Jetty	Kwinana Industries	Desal Plant	Private/Government	WaterCorp	Catastrophic	Catastrophic	Moderate	Rare	Possible	Almost certain	H	H	E	Erosion dominates			Erosion dominates			n/a	n/a	n/a	Nil	H	H	E	n/a	n/a	n/a	Intensify	-	Initiation subject to development opportunities	Maintain	Protect existing conditions when erosion within 10 m of asset
11	South boundary of Kwinana Power Station	South boundary of Kwinana Bulk Jetty	Kwinana Industries	Kwinana Refinery Area	Private/Government	BP	Catastrophic	Catastrophic	Insignificant	Almost certain	Almost certain	Almost Certain	E	E	E	Major	Major	Insignificant	Almost Certain	Almost Certain	Almost Certain	E	E	E	Nil	E	E	E	E	E	E	Intensify	-	Initiation subject to development opportunities	Maintain	Protect existing conditions when erosion within 10 m of asset
11	South boundary of Kwinana Power Station	South boundary of Kwinana Bulk Jetty	Kwinana Industries	Bulk Terminal	Private/Government	FPA	Catastrophic	Insignificant	Insignificant	Almost Certain	Almost certain	Almost Certain	E	E	E	Major	Insignificant	Insignificant	Almost certain	Erosion dominates	Erosion dominates	E	n/a	n/a	Nil	E	E	E	E	n/a	n/a	Intensify	-	Initiation subject to development opportunities	Maintain	Protect existing conditions when erosion within 10 m of asset
11	South boundary of Kwinana Power Station	South boundary of Kwinana Bulk Jetty	Kwinana Industries	Bulk Jetty	Private/Government	FPA	Catastrophic	Insignificant	Insignificant	Almost Certain	Almost certain	Almost Certain	E	E	E	Major	Insignificant	Insignificant	Almost certain	Erosion dominates	Erosion dominates	E	n/a	n/a	Nil	E	E	E	E	n/a	n/a	Intensify	-	Initiation subject to development opportunities	Maintain	Protect existing conditions when erosion within 10 m of asset
11	South boundary of Kwinana Power Station	South boundary of Kwinana Bulk Jetty	Kwinana Industries	Fertiliser factory	Private/Government	CSBP	Catastrophic	Insignificant	Insignificant	Almost certain	Almost certain	Almost certain	E	E	E	Major	Insignificant	Insignificant	Almost certain	Erosion dominates	Erosion dominates	E	n/a	n/a	Nil	E	E	E	E	n/a	n/a	Intensify	-	Initiation subject to development opportunities	Maintain	Protect existing conditions when erosion within 10 m of asset
11	South boundary of Kwinana Power Station	South boundary of Kwinana Bulk Jetty	Kwinana Industries	Stormwater points		CoK	Insignificant	Insignificant	Insignificant	n/a	Rare	Possible	n/a	L	L	Erosion dominates			Erosion dominates			n/a	n/a	n/a	As per current management	n/a	L	L	n/a	n/a	n/a	Intensify	-	Initiation subject to development opportunities	Maintain	Protect existing conditions when erosion within 10 m of asset

Coastal Management Unit	Geographical limits		Unit Specific Assets	Asset	Asset type	LGA	Consequence of Impact - Erosion			Likelihood of Impact - Erosion			Risk of Erosion			Consequence of Impact - Inundation			Likelihood of Impact - Inundation			Risk of Inundation			Existing Management	Residual Risk of Erosion			Residual Risk of Inundation			Preferred Pathway	Adaptation Measure	Trigger	Alternative Pathway	Trigger
	North	South					Economic	Social	Environmental	Present	2070	2110	Present	2070	2110	Economic	Social	Environmental	Present	2070	2110	Present	2070	2110		Present	2070	2110	Present	2070	2110					
12	South boundary of Kwinana Bulk Jetty	LGA boundary at coastline	Wells Park, The Wreck	Electricity points (lamps)	Utilities	CoK	Minor	Moderate	Insignificant	Possible	Almost cer	Almost cer	H	H	H	Erosion dominates			Erosion dominates			n/a	n/a	n/a	As per current management	H	H	H	n/a	n/a	n/a	Maintain	Relocation or protection of asset, sand nourishment, dune restoration	Asset compromised by erosion	-	-
12	South boundary of Kwinana Bulk Jetty	LGA boundary at coastline	Wells Park, The Wreck	The Wreck	Heritage	CoK	Minor	Moderate	Insignificant	Possible	Almost certain	Almost certain	H	H	H	Erosion dominates			Erosion dominates			n/a	n/a	n/a	As per current management	H	H	H	n/a	n/a	n/a	Maintain	Protection of asset, sand nourishment, dune restoration	Asset compromised by erosion	-	-
12	South boundary of Kwinana Bulk Jetty	LGA boundary at coastline	Wells Park, The Wreck	Footpath	Infrastructure	CoK	Minor	Minor	Insignificant	Possible	Almost certain	Almost certain	M	H	H	Insignificant	Insignificant	Insignificant	Almost certain	Erosion dominates	Erosion dominates	M	n/a	n/a	Replace as required	M	H	H	M	n/a	n/a	Maintain	Relocation or protection of asset, sand nourishment, dune restoration	Asset compromised by erosion	-	-
12	South boundary of Kwinana Bulk Jetty	LGA boundary at coastline	Wells Park, The Wreck	Kwinana Jetty	Coastal Structures	CoK	Major	Major	Major	Almost certain	Almost certain	Almost certain	E	E	E	Erosion dominates			Erosion dominates			n/a	n/a	n/a	Destroyed	E	E	E	n/a	n/a	n/a	Maintain	Protection of asset, sand nourishment, dune restoration	Asset compromised by erosion	-	-
12	South boundary of Kwinana Bulk Jetty	LGA boundary at coastline	Wells Park, The Wreck	Kwinana Beach Seawall	Coastal Structures	CoK	Major	Major	Minor	Almost certain	Almost certain	Almost certain	E	E	E	Erosion dominates			Erosion dominates			n/a	n/a	n/a	Renewal/ upgrade	H	H	H	n/a	n/a	n/a	Maintain	Increase height of breakwater	Breakwater overtopping > 1/yr (average)	-	-
12	South boundary of Kwinana Bulk Jetty	LGA boundary at coastline	Wells Park, The Wreck	Kwinana Beach Tombolo (1)	Coastal Structures	CoK	Moderate	Minor	Moderate	Almost certain	Almost certain	Almost certain	H	H	H	Erosion dominates			Erosion dominates			n/a	n/a	n/a	Nil	H	H	H	n/a	n/a	n/a	Maintain	Increase height of breakwater	Breakwater overtopping > 1/yr (average)	-	-
12	South boundary of Kwinana Bulk Jetty	LGA boundary at coastline	Wells Park, The Wreck	Wells Park Boat Ramp	Coastal Structures	CoK	Moderate	Moderate	Insignificant	Almost certain	Almost certain	Almost certain	H	H	H	Erosion dominates			Erosion dominates			n/a	n/a	n/a	Renewal/ upgrade	H	H	H	n/a	n/a	n/a	Maintain	Relocation or protection of asset, sand nourishment, dune restoration	Asset compromised by erosion	-	-
12	South boundary of Kwinana Bulk Jetty	LGA boundary at coastline	Wells Park, The Wreck	Wells Park Beach	Parks	CoK	Moderate	Moderate	Minor	Almost certain	Almost certain	Almost certain	H	H	H	Erosion dominates			Erosion dominates			n/a	n/a	n/a	Offshore breakwater	H	H	H	n/a	n/a	n/a	Maintain	Sand nourishment, dune restoration	Net dune retreat > 20 m	-	-
10, 12				Water Supply lines	Utilities	CoK	Minor	Moderate	Minor	Rare	Possible	Almost cer	M	H	H	Erosion dominates			Erosion dominates			n/a	n/a	n/a	As per current management	L	M	H	n/a	n/a	n/a	Variable	Relocation or protection of asset, sand nourishment, dune restoration	Asset compromised by erosion	-	-
13	LGA boundary at coastline	Wanliss Street	Rockingham Beach, CBH Grain Terminal	Rockingham Beach	Parks	CoR	Moderate	Major	Minor	Almost certain	Almost certain	Almost certain	E	E	E	Erosion dominates			Erosion dominates			n/a	n/a	n/a	Beach nourishment, offshore breakwater	H	E	E	n/a	n/a	n/a	Maintain	Sand nourishment, dune restoration	Net dune retreat > 20 m	-	-
13	LGA boundary at coastline	Wanliss Street	Rockingham Beach, CBH Grain Terminal	Jetty and Silos	Private/Government	CBH	Catastrophic	Insignificant	Insignificant	Almost Certain	Almost certain	Almost Certain	E	E	E	Major	Insignificant	Insignificant	Almost certain	Erosion dominates	Erosion dominates	E	n/a	n/a	Nil	E	E	E	E	n/a	n/a	Maintain	Protection of asset, sand nourishment, dune restoration	Erosion within 10 m of asset	-	-
14	Wanliss Street	Railway Terrace	Bell and Churchill Park	Bell and Churchill Parks Beachfront	Parks	CoR	Major	Catastrophic	Minor	Almost certain	Almost certain	Almost certain	E	E	E	Erosion dominates			Erosion dominates			n/a	n/a	n/a	Beach nourishment	H	E	E	n/a	n/a	n/a	Maintain	Sand nourishment, dune restoration	Asset (promenade) exposed by erosion	Intensify	Initiation subject to development opportunities
14	Wanliss Street	Railway Terrace	Bell and Churchill Park	Bell and Churchill Parks	Park/Heritage	CoR	Catastrophic	Catastrophic	Moderate	Rare	Possible	Almost certain	H	H	E	Major	Major	Minor	Erosion dominates			n/a	n/a	n/a	Seawall, geotextile bags	H	H	E	n/a	n/a	n/a	Maintain	Sand nourishment, dune restoration	Asset (promenade) exposed by erosion	Intensify	Initiation subject to development opportunities
13, 14	LGA boundary at coastline	Railway Terrace		Footpath	Infrastructure	CoR	Major	Major	Insignificant	Almost certain	Almost certain	Almost certain	E	E	E	Minor	Minor	Insignificant	Almost certain	Almost certain	Almost certain	H	H	H	Rock armour between Val Street Jetty and Railway Terrace	E	E	E	H	H	H	Maintain	Relocation or protection of asset, sand nourishment, dune restoration	Asset compromised by erosion	-	-
15	Railway Terrace	Hymus Street	Palm Beach	Palm Beach	Parks	CoR	Moderate	Major	Minor	Almost certain	Almost certain	Almost certain	E	E	E	Erosion dominates			Erosion dominates			n/a	n/a	n/a	Beach nourishment	H	E	E	n/a	n/a	n/a	Maintain	Sand nourishment, dune restoration	Net dune retreat > 20 m	Intensify	Initiation subject to development opportunities
15	Railway Terrace	Hymus Street	Palm Beach	Z-Force Memorial	Heritage	CoR	Minor	Minor	Insignificant	Rare	Possible	Almost certain	L	M	H	Erosion dominates			Erosion dominates			n/a	n/a	n/a	Nil	L	M	H	n/a	n/a	n/a	Maintain	Protection of asset, sand nourishment, dune restoration	Erosion within 10 m of asset	Intensify	Initiation subject to development opportunities
15	Railway Terrace	Hymus Street	Palm Beach	Iluka	Heritage	CoR	Minor	Moderate	Insignificant	Rare	Possible	Almost certain	M	H	H	Erosion dominates			Erosion dominates			n/a	n/a	n/a	Nil	M	H	H	n/a	n/a	n/a	Maintain	Protection of asset, sand nourishment, dune restoration	Erosion within 10 m of asset	Intensify	Initiation subject to development opportunities
15	Railway Terrace	Hymus Street	Palm Beach	Palm Beach East Boat Ramp (Bell Street Boat Ramp)	Coastal Structures	CoR	Moderate	Moderate	Insignificant	Almost certain	Almost certain	Almost certain	H	H	H	Erosion dominates			Erosion dominates			n/a	n/a	n/a	Nil	H	H	H	n/a	n/a	n/a	Maintain	Protection of asset, sand nourishment, dune restoration	Asset compromised by erosion	Intensify	Initiation subject to development opportunities
15	Railway Terrace	Hymus Street	Palm Beach	Palm Beach West Boat Ramp (Esplanade Boat Ramp)	Coastal Structures	CoR	Minor	Moderate	Insignificant	Possible	Almost certain	Almost certain	H	H	H	Erosion dominates			Erosion dominates			n/a	n/a	n/a	Nil	H	H	H	n/a	n/a	n/a	Maintain	Protection of asset, sand nourishment, dune restoration	Asset compromised by erosion	Intensify	Initiation subject to development opportunities
15	Railway Terrace	Hymus Street	Palm Beach	Rotary Park	Heritage	CoR	Moderate	Moderate	Minor	Almost certain	Almost certain	Almost certain	H	H	H	Moderate	Moderate	Minor	Almost certain	Almost certain	Almost certain	H	H	H	Nil	H	H	H	H	H	H	Maintain	Sand nourishment, dune restoration	Net dune retreat > 20 metres	Intensify	Initiation subject to development opportunities
15	Railway Terrace	Hymus Street	Palm Beach	Carinya Court	Heritage	CoR	Moderate	Major	Insignificant	n/a	n/a	Rare	n/a	n/a	M	Erosion dominates			Erosion dominates			n/a	n/a	n/a	Nil	n/a	n/a	M	n/a	n/a	n/a	Maintain	Protection of asset, sand nourishment, dune restoration	Net dune retreat > 20 m	Intensify	Initiation subject to development opportunities
15	Railway Terrace	Hymus Street	Palm Beach	Lucy Saw Home	Heritage	CoR	Not affected by erosion			Not affected by erosion			n/a	n/a	n/a	Insignificant	Insignificant	Insignificant	n/a	n/a	Rare	n/a	n/a	L	Nil	n/a	n/a	n/a	n/a	n/a	L	Maintain	Protection of asset, sand nourishment, dune restoration	Erosion within 10 m of asset	Intensify	Initiation subject to development opportunities
15	Railway Terrace	Hymus Street	Palm Beach	3 Chalwell Street	Heritage	CoR	Not affected by erosion			Not affected by erosion			n/a	n/a	n/a	Insignificant	Insignificant	Insignificant	n/a	Rare	Possible	n/a	L	L	Nil	n/a	n/a	n/a	n/a	L	L	Maintain	Protection of asset, sand nourishment, dune restoration	Erosion within 10 m of asset	Intensify	Initiation subject to development opportunities
13, 14, 15	LGA boundary at coastline	Hymus Street		Water Supply	Utilities	CoR	Major	Major	Insignificant	Almost certain	Almost certain	Almost certain	E	E	E	Insignificant	Insignificant	Insignificant	Almost certain	Almost certain	Almost certain	M	M	M	Buried seawall, beach nourishment, seawall	H	H	H	L	L	L	Maintain	Protection of asset, sand nourishment, dune restoration	Asset compromised by erosion	-	-
13, 14, 15	LGA boundary at coastline	Hymus Street		Urban Area	Infrastructure	CoR	Major	Major	Insignificant	Possible	Almost certain	Almost certain	H	E	E	Minor	Major	Insignificant	Almost certain	Almost certain	Almost certain	E	E	E	Nil	H	E	E	E	E	E	Maintain	Protection of asset, sand nourishment, dune restoration	Erosion within 10 m of asset	-	-
16	Hymus Street	Causeway	Causeway	PWC Area	Parks	CoR	Insignificant	Moderate	Minor	Almost certain	Almost certain	Almost certain	H	H	H	Erosion dominates			Erosion dominates			n/a	n/a	n/a	Beach nourishment	H	H	H	n/a	n/a	n/a	Maintain	Sand nourishment, dune restoration	Net dune retreat > 20 m	-	-
16	Hymus Street	Causeway	Causeway	Unofficial Dog Beach	Parks	CoR	Insignificant	Moderate	Minor	Almost certain	Almost certain	Almost certain	H	H	H	Erosion dominates			Erosion dominates			n/a	n/a	n/a	Beach nourishment	H	H	H	n/a	n/a	n/a	Maintain	Sand nourishment, dune restoration	Net dune retreat > 20 m	-	-
16	Hymus Street	Causeway	Causeway	Alfred Hines Seaside Home	Heritage	CoR	Minor	Moderate	Insignificant	Rare	Possible	Almost certain	M	H	H	Erosion dominates			Erosion dominates			n/a	n/a	n/a	Timber groyne at Hymus Street	M	H	H	n/a	n/a	n/a	Maintain	Protection of asset, sand nourishment, dune restoration	Erosion within 10 m of asset	-	-
16	Hymus Street	Causeway	Causeway	Turtle Factory	Heritage	CoR	Insignificant	Minor	Insignificant	Possible	Almost certain	Almost certain	M	H	H	Erosion dominates			Erosion dominates			n/a	n/a	n/a	Nil	M	H	H	n/a	n/a	n/a	Maintain	Protection of asset, sand nourishment, dune restoration	Erosion within 10 m of asset	-	-
16	Hymus Street	Causeway	Causeway	Point Peron Boat Launching Facility	Coastal Structures	CoR	Moderate	Major	Insignificant	Almost certain	Almost certain	Almost certain	E	E	E	Erosion dominates			Erosion dominates			n/a	n/a	n/a	Nil	E	E	E	n/a	n/a	n/a	Maintain	Protection of asset, sand nourishment, dune restoration	Asset compromised by erosion	-	-
16	Hymus Street	Causeway	Causeway	Mangles Bay Fishing Club boat ramp	Coastal Structures	CoR	Minor	Moderate	Insignificant	Almost certain	Almost certain	Almost certain	H	H	H	Erosion dominates			Erosion dominates			n/a	n/a	n/a	Nil	H	H	H	n/a	n/a	n/a	Maintain	Protection of asset, sand nourishment, dune restoration	Asset compromised by erosion	-	-
15, 16	Railway Terrace	Causeway		Lake Richmond	Heritage	CoR	Not affected by erosion			Not affected by erosion			n/a	n/a	n/a	Moderate	Moderate	Catastrophic	n/a	n/a	Rare	n/a	n/a	H	Nil	n/a	n/a	n/a	n/a	n/a	H	Maintain	Flow controls	Environmental conditions (water chemistry) outside necessary boundary conditions for environment	-	-
17	Causeway	Western boundary of Point Peron Recreational Camp	Point Peron Recreational Camp	Crystals Beach	Parks	CoR	Minor	Major	Moderate	Almost certain	Almost certain	Almost certain	E	E	E	Erosion dominates			Erosion dominates			n/a	n/a	n/a	Groyne at Crystals Beach	H	E	E	n/a	n/a	n/a	Retreat	-	-	Maintain	Protect/maintain existing conditions when net dune retreat > 20 m
17	Causeway	Western boundary of Point Peron Recreational Camp	Point Peron Recreational Camp	Cape Peron Waste Water Treatment Plant	Private/Government	WaterCorp	Catastrophic	Catastrophic	Moderate	n/a	Rare	Possible	n/a	H	H	Major	Major	Insignificant	n/a	Possible	Possible	n/a	H	H	Nil	n/a	H	H	n/a	H	H	Retreat	Decommissioning or relocation of asset	Asset compromised by erosion	Maintain	Protect/maintain existing conditions when net dune retreat > 20 m
17	Causeway	Western boundary of Point Peron Recreational Camp	Point Peron Recreational Camp	Point Peron boat ramp (1)	Coastal Structures	CoR	Not affected by erosion			Not affected by erosion			n/a	n/a	n/a	Moderate	Moderate	Insignificant	Possible	Possible	Almost certain	H	H	H	Sand trap, spur groynem breakwater	n/a	n/a	n/a	H	H	H	Retreat	Decommissioning or relocation of asset	Asset compromised by erosion	Maintain	Protect/maintain existing conditions when net dune retreat > 20 m
18	Western boundary of Point Peron Recreational Camp	End of peninsula	Point Peron – Rockingham Lakes Regional Park	John Point	Heritage	CoR	Minor	Major	Moderate	Almost certain	Almost certain	Almost certain	E	E	E	Minor	Minor	Minor	Almost certain	Erosion dominates	Erosion dominates	H	n/a	n/a	Nil	E	E	E	H	n/a	n/a	Retreat	Decommissioning or relocation of asset	Asset compromised by erosion	-	-
18	Western boundary of Point Peron Recreational Camp	End of peninsula	Point Peron – Rockingham Lakes Regional Park	Cape Peron Battery Factory	Heritage	CoR	Minor	Minor	Insignificant	n/a	n/a	Rare	n/a	n/a	L	Erosion dominates			Erosion dominates			n/a	n/a	n/a	Nil	n/a	n/a	L	n/a	n/a	n/a	Retreat	Decommissioning or relocation of asset	Asset compromised by erosion	-	-
18	Western boundary of Point Peron Recreational Camp	End of peninsula	Point Peron – Rockingham Lakes Regional Park	Fisherman's Head	Heritage	CoR	Not affected by erosion			Not affected by erosion			n/a	n/a	n/a	Minor	Minor	Minor	Possible	Possible	Almost certain	M	M	H	Nil	n/a	n/a	n/a	M	M	H	Retreat	Decommissioning or relocation of asset	Asset compromised by erosion	-	-
15, 16, 17, 18	Railway Terrace	End of peninsula		Cape Peron, Rockingham Lakes Regional Park	Parks	CoR	Major	Major	Major	Almost certain	Almost certain	Almost certain	E	E	E	Moderate	Moderate	Moderate	Almost certain	Almost certain	Almost certain	H	H	H	Geotextile sand container, groyne at Crystals Beach	H	H	H	H	H	H	Variable	-	-	-	-

Coastal Management Unit	Geographical limits		Unit Specific Assets	Asset	Asset type	LGA	Consequence of Impact - Erosion			Likelihood of Impact - Erosion			Risk of Erosion			Consequence of Impact - Inundation			Likelihood of Impact - Inundation			Risk of Inundation			Existing Management	Residual Risk of Erosion			Residual Risk of Inundation			Preferred Pathway	Adaptation Measure	Trigger	Alternative Pathway	Trigger
	North	South					Economic	Social	Environmental	Present	2070	2110	Present	2070	2110	Economic	Social	Environmental	Present	2070	2110	Present	2070	2110		Present	2070	2110	Present	2070	2110					
13, 14, 15, 16, 17, 18	LGA boundary at coastline	End of peninsula		Roads	Infrastructure	CoR	Catastrophic	Catastrophic	Insignificant	Almost certain	Almost certain	Almost certain	E	E	E	Minor	Minor	Insignificant	Almost certain	Almost certain	Almost certain	H	H	H	Rock armour between Val Street Jetty and Railway Terrace	E	E	E	H	H	H	Variable	Protection of asset, sand nourishment, dune restoration	Erosion within 10 m of asset	-	-
13, 14, 15, 16, 17, 18	LGA boundary at coastline	End of peninsula		Parks (includes Wells Park CoK, not including Bell and Churchill Parks)	Parks	CoR	Major	Catastrophic	Moderate	Almost certain	Almost certain	Almost certain	E	E	E	Moderate	Moderate	Insignificant	Almost certain	Erosion dominates	Erosion dominates	H	n/a	n/a	Nil	E	E	E	H	n/a	n/a	Variable	-	-	-	-