

Table A3 - Damages, benefits and outcome measure scores for all options

Strategy Management Unit		Strategy Options		Proposed year of construction	PV Cost £k	PV Cost With OB £k	Cash Cost £k	Cash Cost With OB £k	Damages £k	PV Benefits £k	Net Present Value £k	BCR	Incremental BCR	No of Households Protected	No of Commercial Protected	Outcome Measures Score
20A/1 - 23A/1		Total Preferred Strategy		variable	60,100	96,200	138,000	221,000	23,300	295,000	198,000	3.1	1.5	1711	72	1.29
20A/1	Sea Life Centre	Option 1	Do Nothing/ No Active Intervention						7,720					-	-	-
		Option 2	Minimal Intervention - repeated repairs for 100 years	1 - 5	2,370	3,780	10,300	16,500	1,520	6,200	2,410	1.6	0.2	9	2	0.44
		Option 3	Rock Berm & seawall repairs - scheme in year 3	1 - 5	7,950	12,700	9,840	15,700	53	7,670	-5,048	0.6	0.2	9	2	0.16
		Option 4	Rock revetment and sea wall repairs - scheme in year 3	1 - 5	3,460	5,540	4,680	7,490	53	7,670	2,130	1.4	0.8	9	2	0.37
		Option 5	Stepped Concrete Revetment - scheme in year 3	1 - 5	8,390	13,400	10,300	16,500	53	7,670	-5,752	0.6	0.2	9	2	0.15
		Option 6	Defer rock revetment & sea wall repair by 15 years	11 - 20	2,990	4,780	5,300	8,470	123	7,600	2,820	1.6	1.4	9	2	0.43
20A/2 - 20A/7	North Bay Cliffs	Option 1	Do Nothing/ No Active Intervention						22,500					-	-	-
		Option 2	Minimal Intervention	ongoing	1,700	2,710	9,840	15,700	8,840	13,700	10,900	5.0	-	15	3	1.51
		Option 3	Seawall repairs & slope stabilisation	6 - 10	3,190	5,110	6,820	10,900	2,220	20,300	15,200	4.0	2.8	15	3	1.15
		Option 4	Seawall repairs, slope stabilisation & beach recharge	6 - 10	6,130	9,810	18,200	29,100	2,220	20,300	10,500	2.1	0.9	15	3	0.60
20B/1 - 20B/3	Clarence Gardens (N)	Option 1	Do Nothing/ No Active Intervention						52,400					-	-	-
		Option 2	Minimal Intervention	ongoing	2,850	4,560	11,000	17,600	24,000	28,400	23,800	6.2	-	280	2	8.51
		Option 3	Rock revetment, seawall repairs & slope stabilisation	6 - 10	11,400	18,300	18,000	28,900	3,870	48,500	30,300	2.7	1.5	280	2	2.42
		Option 4	Rock revetment, seawall repairs, beach recharge & slope stabilisation	6 - 10	14,200	22,800	29,300	46,800	3,870	48,500	25,800	2.1	1.1	280	2	1.94
21A/1 & 2 - 21B/1	The Holms & Castle Headland	Option 1	Do Nothing/ No Active Intervention						44,400					-	-	-
		Option 2	Minimal Intervention -upgrade / replace structures at end of residual life	50 - 100	8,140	13,000	48,000	76,700	1,180	43,200	30,200	3.3	-	595	26	0.90
21B/2	West Pier / Harbour	Option 1	Do Nothing/ No Active Intervention						780					-	-	-
		Option 2	Minimal Intervention	20 - 30	984	1,570	3,940	6,300	557	223	-1,352	0.1	-	-	-	0.04
		Option 3	Upgrade / replace structures at end of residual life	20 - 30	1,460	2,330	3,450	5,520	354	426	-1,909	0.2	0.3	-	-	0.05
22A/1 - 22A/2	Foreshore Rd and St Nicholas Cliff	Option 1	Do Nothing/ No Active Intervention						60,100					-	-	-
		Option 2	Minimal Intervention	ongoing	1,920	3,070	7,200	11,500	24,400	35,700	32,700	11.6	-	78	4	3.30
		Option 3	Hold Line - Upgrade wall & slope stabilisation in Year 7	6 - 10	4,000	6,410	7,150	11,400	8,340	51,700	45,300	8.1	4.8	78	4	2.26
		Option 4	Advance Line - new wall & slope stabilisation in Year 7	6 - 10	7,610	12,200	11,700	18,700	7,000	53,100	40,900	4.4	1.9	78	4	1.22
		Option 5	Hold Line - Upgrade wall & slope stabilisation in Year 1	1 - 5	4,590	7,350	6,900	11,000	3,550	56,500	49,200	7.7	5.1	78	4	2.14
		Option 6	Hold Line - Upgrade wall & slope stabilisation in Year 15	11 - 20	3,550	5,680	7,530	12,000	13,000	47,100	41,400	8.3	0.9	78	4	2.32
22A/3	Spa Chalet	Option 1	Do Nothing/ No Active Intervention						24,600					-	-	-
		Option 2	Minimal Intervention	ongoing	1,110	1,780	4,280	6,850	4,060	20,500	18,700	11.5	-	63	7	3.52
		Option 3	Hold Line- Rock Revetment, seawall repairs & slope stabilisation	1 - 5	5,240	8,380	7,370	11,800	807	23,800	15,400	2.8	0.5	63	7	0.85
		Option 4	Advance Line - New wall, revetment & slope stabilisation	1 - 5	11,100	17,800	13,900	22,200	807	23,800	5,980	1.3	0.2	63	7	0.40
		Option 5	Rock Berm, Wall Repairs and slope stabilisation	1 - 5	9,480	15,200	12,100	19,300	807	23,800	8,610	1.6	0.2	63	7	0.47
		Option 6	Rock Revetment, Wave Return Wall & Slope Stabilisation	1 - 5	4,830	7,730	6,910	11,100	807	23,800	16,100	3.1	0.5	63	7	0.93
		Option 7	Concrete Stepped Revetment & Slope stabilisation	1 - 5	9,550	15,300	12,100	19,400	807	23,800	8,500	1.6	0.2	63	7	0.47
		Option 8	Rock Revetment, Wave Return Wall & Slope Stabilisation - 20 Year Delay	20-30	2,960	4,740	6,410	10,300	2,020	22,600	17,800	4.8	0.7	63	7	1.44
		Option 9	Concrete Stepped Revetment & Slope stabilisation - 20 Year Delay	20-30	5,500	8,810	11,600	18,600	2,020	22,600	13,800	2.6	0.3	63	7	0.77
22A/4 - 22B/2	The Spa	Option 1	Do Nothing/ No Active Intervention						70,800					-	-	-
		Option 2	Minimal Intervention	ongoing	4,270	6,840	19,900	31,900	47,800	23,000	16,200	3.4	-	380	25	1.51
		Option 3	Hold Line- Rock Revetment, seawall repairs & slope stabilisation	1 - 5	8,590	13,700	11,200	17,900	2,660	68,200	54,400	5.0	6.5	380	25	1.64
		Option 4	Advance Line - New wall, revetment & slope stabilisation	1 - 5	17,200	27,500	20,700	33,200	2,660	68,200	40,600	2.5	2.2	380	25	0.82
		Option 5.1a	Rock revetment and wave return wall and slope stabilisation - 1 in 100 Structural SoP - 1 in 10 Overtopping SoP	1 - 5	8,800	14,100	11,400	18,300	2,660	68,200	54,100	4.8	6.2	380	25	1.60
		Option 6	Concrete stepped revetment	1 - 5	11,500	18,400	14,500	23,100	2,660	68,200	49,700	3.7	3.9	380	25	1.22
		Option 7	Rock Berm and sea wall repairs	1 - 5	10,200	16,300	13,000	20,800	2,660	68,200	51,900	4.2	4.8	380	25	1.38
22B/3, 22B4 & 22B/5	South Cliff Gdns, Rose Gdns & South Bay Pool	Option 1	Do Nothing/ No Active Intervention						25,500					-	-	-
		Option 2	Minimal Intervention	ongoing	5,080	8,130	21,400	34,300	15,900	9,530	1,400	1.2	-	251	3	1.16
		Option 3	Rock Berm, seawall repairs & slope stabilisation	6 - 10	10,000	16,000	17,100	27,300	1,970	23,500	7,460	1.5	1.8	251	3	0.82
		Option 4	Rock Revetment, seawall repairs & slope stabilisation	6 - 10	11,400	18,200	18,900	30,200	1,970	23,500	5,260	1.3	1.4	251	3	0.72
22B/6	Holbeck Gardens	Option 1	Do Nothing/ No Active Intervention						8,650					-	-	-
		Option 2	Minimal Intervention	ongoing	1,730	2,770	7,220	11,600	3,700	4,950	2,180	1.8	-	26	-	0.74
		Option 3	Rock Berm, seawall repairs & slope stabilisation	11 - 20	4,940	7,910	9,040	14,500	454	8,190	290	1.0	0.6	26	-	0.37
		Option 4	Rock Revetment, seawall repairs & slope stabilisation	11 - 20	5,160	8,250	9,400	15,000	454	8,190	-55	1.0	0.6	26	-	0.36
22B/7	Holbeck Cliff	Option 1	Do Nothing/ No Active Intervention						558					-	-	-
		Option 2	Minimal Intervention -upgrade / replace structures at end of residual life	50 - 100	612	979	3,000	4,810	47	511	-468	0.5	-	14	-	0.14
23A/1	Wheatcroft Cliff	Option 1	Do Nothing/ No Active Intervention		NAI				30					-	-	-
		Option 2	Minimal Intervention	NAI	189	302	636	1,020	30	0	-302	0.0	-	-	-	-

Note: All incremental BCR's are compared to minimal intervention (Option 2)