





Ayrshire Shoreline Management Plan Appendix D: Policy & Actions Assessment IBE1107/D03 Draft D01

January 2018





Ayrshire Shoreline Management Plan

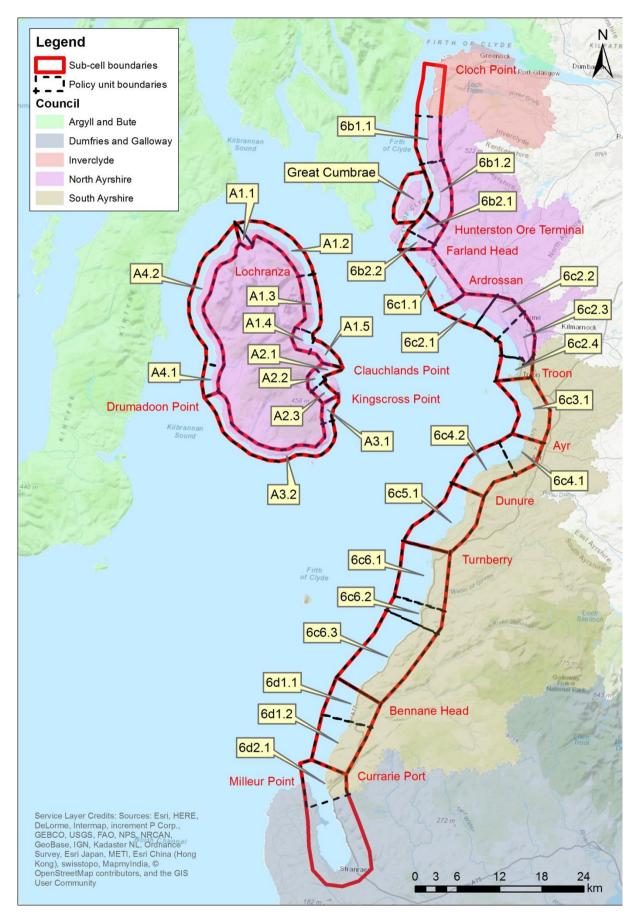
Appendix D: Policy & Actions Assessment

DOCUMENT CONTROL SHEET

Client	North / Sout	North / South Ayrshire Council								
Project Title	Ayrshire Sh	Ayrshire Shoreline Management Plan								
Document Title	Appendix D	Appendix D – Policy & Actions Assessment								
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D01	Draft	DI	MB	MB	Belfast	23/01/2018

AYRSHIRE SMP STUDY AREA EXTENTS



Long List of Potential Actions to achieve Shoreline Management Policies

		Policies acti	on is applicable fo	r	Risl	Risks action is applicable for						
Potential Actions	Hold the line	Advance the line	Managed realignment	No active intervention	Tidal Flooding	Wave Overtopping	Erosion	Hard / Soft / Mixed				
Seawalls	~	~			~	~	~	Hard				
Revetments	~	~	A				~	Hard				
Embankments	~	~	A		~	A		Hard				
Maintenance	~							Mixed				
Groynes	~						~	Mixed				
Detached breakwaters	~						~	Mixed				
Headlands	~				5	A	~	Mixed				
Perched beaches	~				1.5		~	Mixed				
Cove	~						~	Mixed				
Dune stabilisation	~				~	A	~	Soft				
Managed realignment			~		~	~	~	Soft				
Nourishment	~		~		A	A	~	Soft				
Beach drain	<i>✓</i>						~	Soft				

Key	
Applicable	~
Applicable in some cases	
Not applicable	

Definitions of Long List of Potential Actions

Potential Actions	Definition
Seawalls	These are typically of concrete, masonry or gabion construction. They are typically sloped but can also be near-vertical. The face can be smooth, stepped or curved. Seawalls protect against both erosion and flooding.
Revetments	A sloping structure with a facing of typically stone, concrete units or cobble. Revetments protect against erosion; however they do not normally protect against flooding.
Embankments	A sloping sea defence structure of typically earthen/sand construction. These structures protect the coast from flooding; however they do not normally provide erosion protection.
Maintenance	In areas where coastal defences are currently in place, a maintenance regime can ensure that these structures continue to provide the required standard of protection.
Groynes	These are normally straight structures perpendicular to the shoreline. They block part of the littoral drift and trap sand on their upstream side.
Detached breakwaters	These are straight shore-parallel structures which partly provide direct coastal protection as the shoreline in the lee of the structure is sheltered. Littoral transport in the lee of the structure is also reduced, trapping sand.
Headlands	These are smooth structures which extend out on the shoreface from the coastline. They block part of the littoral transport and have similar effects on the shoreline as groynes and detached breakwaters; however some of the disadvantages of groynes and detached breakwaters are minimised such as leeside erosion.
Perched beaches	These are natural or nourished beaches at locations with a steep shoreface where a submerged structure supports the lower part of the beach.
Cove	This is a semi-protected sandy bay. Two curved breakwaters which connect to the shore are used to form a cove.
Dune stabilisation	Dunes are a natural coastal feature formed by sand which blows inland from the beach and is deposited behind the coastline. Dunes act as a flexible buffer zone, moving backwards with an eroding coastline as long as there is space for this to occur. This process protects the hinterland from erosion and flooding. The ability of dunes to recover after a storm event can be affected if the dune vegetation is damaged. Planting marram grass and setting up spruce fascines or similar to trap sand can stabilise the dune encouraging accretion and build up. This needs to be carried out in a sensitive manner, as over-use of this technique may completely stabilise the dune, interrupting the natural cycle of dune initiation and sediment redistribution.
Managed realignment	In areas where significant coastal defence works have been undertaken, relaxing the requirements for fixing the coastline position to allow managed realignment may be feasible. If housing or infrastructure facilities are very close to the coastline this option will only be feasible if these can be abandoned or moved landward. Where managed realignment is implemented, the coast is given back to natural processes, thereby enhancing the environmental and recreational quality of the area. The rate of realignment can be managed by combining this measure with nourishment if required. If implemented successfully, managed realignment can be effective against both erosion and flooding.
Nourishment	This is a very natural way of combating erosion as sediment is added to artificially replace a deficit in the sediment budget. This measure does not remove the cause of erosion, so erosion will continue to occur along the nourished section. Continual maintenance is required as the nourished sand is gradually sacrificed. This measure generally does not prevent flooding, except in the case of dune nourishment which can offer additional flood protection.
Beach drain	In this system a drain is installed running parallel to the beach in the wave up-rush zone. The drain lowers the groundwater table in this localised area. This decreases the strength of the down-rush of the wave and increases the strength of the beach sand, thereby reducing erosion. This measure does not protect against flooding.

Sub-Cell 6b1: Cloch Point - Hunterston Ore Terminal

RISKS

	Coastal	Flooding				Accretior	n / Erosion				Wave
				20)50		2100				
Receptor Risk	200yr	200yr CC	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Max. Significant Wave Height (Hm0)
RPs (no.)	249	402		0	0	0		0	0	1	
RPs AAD (£)	£98,	724									
NRPs (no.)	78	138		0	0	2		0	0	2	1
NRPs AAD (£)	£201	,105									1
A Roads (km)	0.837	2.462		0.000	0.000	0.000		0.000	0.000	0.000	<1.0m
B Roads (km)	0.350	0.468		0.000	0.000	0.025		0.000	0.000	0.062	1
Minor Roads (km)	0.129	0.252		0.000	0.046	0.101		0.040	0.020	0.287	1
Roads AAD (£)	£14	485									1
SSSIs (km²)	0.275	0.279	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1

*Note this sub-cell contains assets located within Inverclyde Council, therefore the sum of the policy units may not total the sub-cell value.

Policy Unit 6b1.1: Skelmorlie to Largs

RISKS

	Coastal	Flooding				Accretior	n / Erosion				Wave
				20)50		2100				
Receptor Risk	200yr	200yr CC	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Max. Significant Wave Height (Hm0)
RPs (no.)	0	0		0	0	0		0	0	0	
RPs AAD (£)	£	0									1
NRPs (no.)	0	0		0	0	0		0	0	0	
NRPs AAD (£)	£	0									1
A Roads (km)	0.298	0.725		0.000	0.000	0.000		0.000	0.000	0.000	<1.0m
B Roads (km)	0.000	0.000		0.000	0.000	0.000		0.000	0.000	0.000	1
Minor Roads (km)	0.000	0.010		0.000	0.000	0.000		0.000	0.000	0.000	1
Roads AAD (£)	£6,	313									1
SSSIs (km²)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1

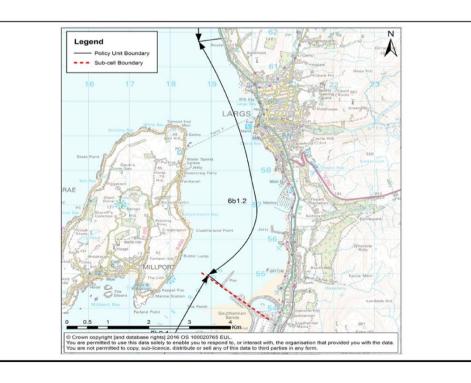
Policy Unit 6b1.2: Largs to Hunterston Ore Terminal

	Coastal	Flooding				Accretior	n / Erosion				Wave
				20)50		2100				
Receptor Risk	200yr	200yr CC	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Max. Significant Wave Height (Hm0)
RPs (no.)	249	402		0	0	0		0	0	1	
RPs AAD (£)	£98,	724									
NRPs (no.)	75	132		0	0	2		0	0	2]
NRPs AAD (£)	£32,	.858									1
A Roads (km)	0.530	1.723		0.000	0.000	0.000		0.000	0.000	0.000	<1.0m
B Roads (km)	0.350	0.468		0.000	0.000	0.025		0.000	0.000	0.062	1
Minor Roads (km)	0.123	0.236		0.000	0.046	0.101		0.040	0.020	0.287	1
Roads AAD (£)	£8,	154									
SSSIs (km²)	0.275	0.279	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1

	Sul	bcell			Policy unit
		b1			6b1.1
Cloch Point	: - Hunt	erston Ore Terminal Polic		Skelı	norlie to Largs
		Hold the			
		Issu			
although this may be beca	use the	tal flooding. No assets have been ic A78 is currently defended and the cotland. The maximum wave heigh	refore an erosion risk t	o this	asset was not highlighted. The A78 is
Potential Actions		Technically feasible?	Potential Actions		Technically feasible?
Seawalls	V 1	Will protect against both flooding and erosion	Perched beaches		Will not protect against flooding but may provide erosion protection
Revetments		Will not protect against flooding but may provide erosion protection	Cove		Will not protect against flooding but may provide erosion protection
Embankments	~	Will protect against flooding	Dune stabilisation	×	No space for dunes
Maintenance	~	There are existing defences including seawalls, revetments rock armour and groynes.	Managed realignment	×	Will not hold the existing line
Groynes		Will not protect against flooding but may provide erosion protection	Nourishment	~	Potentially feasible
Detached breakwaters		Will not protect against flooding but may provide erosion protection	Beach drain		Will not protect against flooding but may provide erosion protection
Headlands		Will not protect against flooding but may provide erosion protection	Additional Actions	×	
	Legen	risk to their assets. Overtopping stu	udy may be required by	Fardoni 238	a the topography. Transport Scotland sport Scotland.
	fou are perm	1 2 3 yright [and database rights] 2016 OS 100020765 EUL. itied to use this data solely to enable you to respond to, or ir ermitted to copy, sub-licence, distribute or sell any of this da	4 Km Bankheit 4 Km Bankheit http://www.anteract.with, the organisation that provide ta to third parties in any form.	ded you w	and the data.

	Sı	ıbcell		F	Policy unit
		6b1			6b1.2
Cloch Point	t - Huni	terston Ore Terminal	Largs	to Hun	terston Ore Terminal
		Polic	y		
		Hold the	line		
		lssue	2		
are other small pockets of	of coast	und the ferry terminal at Largs, the n al flood risk throughout the policy un n Place. The maximum wave height d	nit. A number of prope	erties a	are also at risk due to erosion in the
Potential Actions		Technically feasible?	Potential Actions		Technically feasible?
Seawalls	~	Will protect against both flooding and erosion	Perched beaches		Will not protect against flooding but may provide erosion protectio
Revetments		Will not protect against flooding but may provide erosion protection	Cove		Will not protect against flooding but may provide erosion protectio
Embankments	~	Will protect against flooding	Dune stabilisation	×	No space for dunes
Maintenance	~	There are existing defences including seawalls, revetments and rock armour.	Managed realignment	×	Will not hold the existing line
Groynes		Will not protect against flooding but may provide erosion protection	Nourishment	~	Potentially feasible in isolated areas
Detached breakwaters		Will not protect against flooding but may provide erosion protection	Beach drain		Will not protect against flooding but may provide erosion protectic
Headlands	eadlands Will not protect against flooding but may provide erosion protection				Wave overtopping study recommended
		Workshop Co	nclusions		

Many properties potentially affected from flooding but damages relatively low. Wave overtopping study recommended to consider full risk and determine best action. Overtopping risk particularly evident in Largs based on Local Authority feedback. It was noted that groynes, cove and headlands may not be suitable at Largs due to recreational use of area.



Sub-Cell 6b2: Hunterston Ore Terminal - Farland Head

RISKS

	Coastal	Flooding				Accretion	n / Erosion				Wave
				20)50						
Receptor Risk	200yr	200yr CC	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Max. Significant Wave Height (Hm0)
RPs (no.)	0	0		0	0	0		0	0	0	
RPs AAD (£)	£	0									1
NRPs (no.)	1	1		0	0	0		0	0	0]
NRPs AAD (£)	£1,	045									1
A Roads (km)	0.000	0.000		0.000	0.000	0.000		0.000	0.000	0.000	1.0-1.5m
B Roads (km)	0.000	0.000		0.000	0.000	0.000		0.000	0.000	0.000	1
Minor Roads (km)	0.000	0.000		0.042	0.056	0.220		0.151	0.047	0.130	1
Roads AAD (£)	£	0									1
SSSIs (km ²)	0.348	0.400	0.000	0.002	0.001	0.003	0.000	0.002	0.001	0.002	1

Policy Unit 6b2.1: Hunterston

RISKS

	Coastal	Flooding				Accretion	n / Erosion				Wave
				2()50			2:	100		
Receptor Risk	200yr	200yr CC	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Max. Significant Wave Height (Hm0)
RPs (no.)	0	0		0	0	0		0	0	0	
RPs AAD (£)	£	0									1
NRPs (no.)	1	1		0	0	0		0	0	0	1
NRPs AAD (£)	£1,	045									1
A Roads (km)	0.000	0.000		0.000	0.000	0.000		0.000	0.000	0.000	<1.0m
B Roads (km)	0.000	0.000		0.000	0.000	0.000		0.000	0.000	0.000	1
Minor Roads (km)	0.000	0.000		0.042	0.056	0.220		0.151	0.047	0.130]
Roads AAD (£)	£	0									1
SSSIs (km ²)	0.264	0.296	0.000	0.002	0.001	0.003	0.000	0.002	0.001	0.002	1

Policy Unit 6b2.2: Hunterston to Farland Head

	Coastal	Flooding				Accretion	/ Erosion				Wave
				20)50			21	100		
Receptor Risk	200yr	200yr CC	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Max. Significant Wave Height (Hm0)
RPs (no.)	0	0		0	0	0		0	0	0	
RPs AAD (£)	£	0									1
NRPs (no.)	0	0		0	0	0		0	0	0	1
NRPs AAD (£)	£	0									1
A Roads (km)	0.000	0.000		0.000	0.000	0.000		0.000	0.000	0.000	1.0-1.5m
B Roads (km)	0.000	0.000		0.000	0.000	0.000		0.000	0.000	0.000	1
Minor Roads (km)	0.000	0.000		0.000	0.000	0.000		0.000	0.000	0.000	1
Roads AAD (£)	£	0									1
SSSIs (km ²)	0.084	0.104	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1

	Su	ıbcell		F	Policy unit
		6b2			6b2.1
Hunterston	Ore Te	rminal - Farland Head Polic		н	unterston
		Advance t			
		Issue	9		
	10. J.C.	RP) at risk of coastal flooding at Hun he power station. The maximum wa	10 CA 10 DO 10 DO 10 DO 10 DO		ocalised area of minor road is at risk rm was found to be less than 1.0m.
Potential Actions		Technically feasible?	Potential Actions		Technically feasible?
Seawalls	~	Will protect against both flooding and erosion	Perched beaches		Will not protect against flooding but may provide erosion protection
Revetments	~	Will not protect against flooding but may provide erosion protection	Cove		Will not protect against flooding but may provide erosion protection
Embankments	~	Will not protect against erosion but may provide flood protection	Dune stabilisation		Will not protect against flooding but may provide erosion protection
Maintenance	•	There are existing defences including rock armour revetments. Maintaining the existing defences will not advance the line	Managed realignment	×	Will not advance the line
Groynes		Will not protect against flooding but may provide erosion protection	Nourishment		May be required in conjunction with hard shoreline reinforcement such as seawalls
Detached breakwaters		Will not protect against flooding but may provide erosion protection	Beach drain		Will not protect against flooding but may provide erosion protection
Headlands		Will not protect against flooding but may provide erosion protection	Additional Actions	×	
		Workshop Co	onclusions	1	
Hunterston is a Strategic		der the National Planning Framewor opment in this area. Actions will be t			Policy Framework is to not constrain cowners.
		Farland Point	Hon H12 B B 76 Campbelton	Cruc Biglier F F Source State	

	Su	bcell		P	Policy unit		
		6b2			6b2.2		
Hunterston O	re Te	rminal - Farland Head Polic		ntersto	on to Farland Head		
		Hold the					
		Issue	2				
No assets have been ident	ified t	o be at risk due to coastal flooding o force 8 storm was found to			The maximum wave height during a		
otential Actions		Technically feasible?	Potential Actions		Technically feasible?		
eawalls	×	No flood or erosion risk identified	Perched beaches	×	No erosion risk identified		
evetments	×	No erosion risk identified	Cove	×	No erosion risk identified		
nbankments	×	No flood risk identified	Dune stabilisation	×	No flood or erosion risk identified		
laintenance	~	There are existing defences including rock armour revetments.	Managed realignment	×	Will not hold the existing line		
roynes	×	No erosion risk identified	Nourishment	×	No flood or erosion risk identified		
etached breakwaters	×	No erosion risk identified	Beach drain	×	No erosion risk identified		
eadlands	×	No erosion risk identified Workshop Co	Additional Actions	×	I		
Broa Islan	* Poi d ds	adow	Inner Brigur	d. Poi	Sands nt Avrshire Power Sta Hunt		
Castle	tle Trail I		le Brigurd	Gold	Jenberry 39		
5		16 6b2.2 F	lawking Craig 7	e ee Sis	anberry 140 ⁺ fill sters Thirdpart		
			B. A	177			

Sub-Cell 6c1: Farland Head - Ardrossan

RISKS

	Coastal	Flooding				Accretior	n / Erosion				Wave
				20)50			21	100		
Receptor Risk	200yr	200yr CC	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Max. Significant Wave Height (Hm0)
RPs (no.)	1	326		0	0	0		0	0	0	
RPs AAD (£)	£3,	780									1
NRPs (no.)	5	75		0	0	0		0	0	0	
NRPs AAD (£)	£4,	369									1
A Roads (km)	0.000	0.190		0.000	0.000	0.000		0.000	0.000	0.000	1.5-2.0m
B Roads (km)	0.021	0.414		0.000	0.000	0.000		0.000	0.000	0.000	
Minor Roads (km)	0.080	1.370		0.000	0.000	0.000		0.000	0.000	0.000	
Roads AAD (£)	£5	72									1
SSSIs (km²)	0.000	0.017	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1

Policy Unit 6c1.1 (Farland Head to Ardossan) is the only policy unit within this sub-cell, therefore the policy unit risk values are equal to the sub-cell risk values.

	Su	bcell		Policy unit
		6c1		6c1.1
Farlan	d Hea	ad - Ardrossan		rland Head to Ardrossan
		Polic Hold the		
		Issu		
Marina. No assets were fou	und to		isk to Scottish Water a	e, along Eglinton Road and at Ardrossan ssets. The maximum wave height during a g risk to Ardrossan.
Potential Actions		Technically feasible?	Potential Actions	Technically feasible?
Seawalls	~	Will protect against flooding	Perched beaches	× Will not protect against flooding
Revetments	×	Will not protect against flooding	Cove	Will not protect against flooding
Embankments	~	Will protect against flooding	Dune stabilisation	 Potentially feasible at Eglinton Road
Maintenance	~	There are existing defences including seawalls, revetments, rock armour and dunes	Managed realignment	× Will not hold the existing line
Groynes	×	Will not protect against flooding	Nourishment	 Potentially feasible at Eglinton Road
Detached breakwaters	~	May provide protection to the marina	Beach drain	× Will not protect against flooding
Headlands	×	Will not protect against flooding	Additional Actions	 Wave overtopping study recommended
	-	Perferences Land Head Farland Head Beil Store J	And the second s	Sub-cell Boundary Britan France Britan France Britan France Britan France Britan France Britan France Britan
			Limer Cray	Tendende Tendende Geninaal
		+	6c1.1 45	Norther to Proting a second se
			6c1.1 6c1.1 45 6c4 Hote 0 44 Horne Isle NORTH AREANER Hore Isle NORTH AREANER HORE ISLE	Marine de la constante de la c

Sub-Cell 6c2: Ardrossan - Troon

RISKS

	Coastal	Flooding				Accretion	n / Erosion				Wave
	1			20)50			21	100		Max. Significant Wave Height (Hm0)
Receptor Risk	200yr	200yr CC	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	
RPs (no.)	134	707		0	0	0		0	0	0	
RPs AAD (£)	£71	,206		6							1
NRPs (no.)	118	308		0	0	1		0	0	1	1
NRPs AAD (£)	£224	,240									1
A Roads (km)	0.511	0.246		0.000	0.000	0.000		0.000	0.000	0.000	<1.0m
B Roads (km)	0.746	2.323		0.000	0.000	0.000		0.000	0.000	0.000	1
Minor Roads (km)	0.249	0.881		0.000	0.000	0.000		0.000	0.000	0.273	1
Roads Damage (£)	£14	,267									1
SSSIs (km ²)	1.101	1.253	0.011	0.000	0.000	0.000	0.011	0.000	0.000	0.000	1

Policy Unit 6c2.1: Ardrossan to Stevenston

RISKS

	Coastal	Flooding				Accretior	n / Erosion				Wave
				20)50			2 1	100		
Receptor Risk	200yr	200yr CC	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Max. Significant Wave Height (Hm0)
RPs (no.)	13	382		0	0	0		0	0	0	
RPs AAD (£)	£26,	.167									1
NRPs (no.)	1	161		0	0	1		0	0	1	1
NRPs AAD (£)	£10,	.592									1
A Roads (km)	0.000	0.000		0.000	0.000	0.000		0.000	0.000	0.000	<1.0m
B Roads (km)	0.000	0.744		0.000	0.000	0.000		0.000	0.000	0.000	1
Minor Roads (km)	0.000	0.515		0.000	0.000	0.000		0.000	0.000	0.273	1
Roads Damage (£)	£3	97									1
SSSIs (km²)	0.062	0.063	0.005	0.000	0.000	0.000	0.005	0.000	0.000	0.000	1

Policy Unit 6c2.2: Stevenston to Irvine Bay

	Coastal	Flooding				Accretior	/ Erosion				Wave
				20)50			21	100		
Receptor Risk	200yr	200yr CC	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Max. Significant Wave Height (Hm0)
RPs (no.)	0	0		0	0	0		0	0	0	
RPs AAD (£)	£	£0									1
NRPs (no.)	3	3		0	0	0		0	0	0	1
NRPs AAD (£)	£2,	822									1
A Roads (km)	0.019	0.477		0.000	0.000	0.000		0.000	0.000	0.000	<1.0m
B Roads (km)	0.257	0.382		0.000	0.000	0.000		0.000	0.000	0.000	1
Minor Roads (km)	0.000	0.000		0.000	0.000	0.000		0.000	0.000	0.000	1
Roads AAD (£)	£1,	706									1
SSSIs (km²)	0.829	0.961	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1

Policy Unit 6c2.3: Irvine Bay to Gailes Burn

RISKS

	Coastal	Flooding				Accretior	n / Erosion				Wave
				20)50			21	100		
Receptor Risk	200yr	200yr CC	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Max. Significant Wave Height (Hm0)
RPs (no.)	10	84		0	0	0		0	0	0	
RPs AAD (£)	£6,	859									
NRPs (no.)	11	18		0	0	0		0	0	0]
NRPs AAD (£)	£192	,426									1
A Roads (km)	0.253	0.276		0.000	0.000	0.000		0.000	0.000	0.000	<1.0m
B Roads (km)	0.005	0.031		0.000	0.000	0.000		0.000	0.000	0.000	1
Minor Roads (km)	0.000	0.000		0.000	0.000	0.000		0.000	0.000	0.000	1
Roads AAD (£)	£7,	307									1
SSSIs (km²)	0.211	0.229	0.006	0.000	0.000	0.000	0.006	0.000	0.000	0.000	1

Policy Unit 6c2.4: Gailes Burn to Troon

	Coastal I	Flooding				Accretior	/ Erosion				Wave
				20)50			21	100		
Receptor Risk	200yr	200yr CC	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Max. Significant Wave Height (Hm0)
RPs (no.)	111	241		0	0	0		0	0	0	
RPs AAD (£)	£38,	181]
NRPs (no.)	103	126		0	0	0		0	0	0]
NRPs AAD (£)	£18,	401									1
A Roads (km)	0.238	0.246		0.000	0.000	0.000		0.000	0.000	0.000	<1.0m
B Roads (km)	0.484	1.579		0.000	0.000	0.000		0.000	0.000	0.000	1
Minor Roads (km)	0.249	0.366		0.000	0.000	0.000		0.000	0.000	0.000	1
Roads AAD (£)	£4,	857									1
SSSIs (km²)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1

	Su	bcell		F	Policy unit
		5c2			6c2.1
A	rdross	an - Troon Polic	1	rdross	an to Stevenston
		Hold the			
		Issue			
					ne at Saltcoats. Significant additional
					lue to coastal erosion at Stevenston
bead Potential Actions	ch. The	maximum wave height during a for Technically feasible?	ce 8 storm was found t Potential Actions	to be le	Technically feasible?
Fotential Actions			Potential Actions		
Seawalls	~	Will protect against both flooding and erosion	Perched beaches		Will not protect against flooding but may provide erosion protection
Revetments		Will not protect against flooding but may provide erosion protection	Cove		Will not protect against flooding but may provide erosion protection
Embankments		Will not protect against erosion but may provide flooding protection	Dune stabilisation	~	Potentially feasible, especially at Stevenston beach
Maintenance	~	There are existing defences including seawalls, revetments, rock armour and dunes	Managed realignment	×	Will not hold the existing line
Groynes		Will not protect against flooding but may provide erosion protection	Nourishment	~	Potentially feasible in isolated areas
Detached breakwaters		Will not protect against flooding but may provide erosion protection	Beach drain		Will not protect against flooding but may provide erosion protectior
Headlands		Will not protect against flooding but may provide erosion protection	Additional Actions	×	
		Workshop Co	onclusions		
Soft engineering action pro	eferrec	to manage erosion at Stevenston. A to manage risk to	11100es /// Ph	onsibi	lity of the asset owner. Network Rail
	43 Horse Is Horse Is 42A 41 40 39 38 0 0 0 © Crown (\$vou are p	nd Policy Unit Boundary Sub-cell Boundary Hereits Boundary Brock Boundary Brock Boundary Brock Boundary Brock Bay Brock Bay Castle South Bay Castle South Bay Castle South Bay Castle South Bay Castle South Bay Castle Costle Costle South Bay Castle Costle Cost	A 25 2 A 25 2		with the data.

	Su	ibcell		P	Policy unit
		6c2			6c2.2
А	rdross	an - Troon Polic		tevens	ton to Irvine Bay
		Hold the			
		Issue	e		
coastal erosion, however u	Inknow		noreline and there is po	otentia	e been identified to be at risk due to I for contamination if future erosion re less than 1.0m.
Potential Actions		Technically feasible?	Potential Actions		Technically feasible?
Seawalls	~	Will protect against both flooding and erosion	Perched beaches	A	Will not protect against flooding but may provide erosion protection
Revetments		Will not protect against flooding but may provide erosion protection	Cove		Will not protect against flooding but may provide erosion protection
Embankments		Will not protect against erosion but may provide flooding protection	Dune stabilisation	~	Potentially feasible
Maintenance	~	There are existing defences including seawalls, revetments, rock armour and dunes	Managed realignment	×	Will not hold the existing line
Groynes		Will not protect against flooding but may provide erosion protection	Nourishment	~	Potentially feasible in isolated areas
Detached breakwaters		Will not protect against flooding but may provide erosion protection	Beach drain		Will not protect against flooding but may provide erosion protection
Headlands		Will not protect against flooding but may provide erosion protection	Additional Actions	×	
Unknown materials ar	26	ent at the site along this section of sh require	ed.	nd Policy Unit Sub-cell Bo	Boundary
	© Crown You are	5 0.5 1 1.5 2 Km copyright [and database rights] 2016 OS 100020765 EUL. permitted to use this data solely to enable you to respond to, o not permitted to copy, sub-licence, distribute or sell any of this	r interact with, the organisation that pro- data to third parties in any form.	vided you v	with the data.

	Su	ubcell		F	Policy unit
		6c2			6c2.3
	Ardross	san - Troon Polic		vine B	ay to Gailes Burn
		Hold the			
		lssu	e		
		jacent to the River Irvine. No assets significant loss of sand dune at Bara to be less th	ssie. The maximum wa		sk due to coastal erosion, however ght during a force 8 storm was found
Potential Actions		Technically feasible?	Potential Actions		Technically feasible?
Seawalls	~	Will protect against both flooding and erosion	Perched beaches		Will not protect against flooding but may provide erosion protection
Revetments		Will not protect against flooding but may provide erosion protection	Cove		Will not protect against flooding but may provide erosion protection
Embankments		Will not protect against erosion but may provide flooding protection	Dune stabilisation	~	Potentially feasible
Maintenance	~	There are existing defences including seawalls, revetments, rock armour and dunes	Managed realignment	×	Will not hold the existing line
Groynes		Will not protect against flooding but may provide erosion protection	Nourishment	~	Potentially feasible in isolated areas
Detached breakwaters		Will not protect against flooding but may provide erosion protection	Beach drain		Will not protect against flooding but may provide erosion protection
Headlands		Will not protect against flooding but may provide erosion protection	Additional Actions	×	
		Workshop Co	onclusions	8	
Dune management recor	nmend	ed at Barassie/Irvine beach park to r the river Irvine to n		engine	ering actions may be required along
	0_0.25	PH Harting PH Harting PH Harting PH Harting Hole	Industrie Estate Galles CH CH CH CH CH CH CH CH CH CH CH CH CH	aley Unit B	

A	60			Policy unit
A		828		6c2.4
	rdrossa	n - Troon Polic		Gailes Burn to Troon
		Hold the		
		Issue	2	
		vicinity of Portland St (Troon). No a The maximum wave height during a		ified to be at risk due to coastal erosion i nd to be less than 1.0m.
Potential Actions		Technically feasible?	Potential Actions	Technically feasible?
Seawalls	× 1	Will protect against flooding	Perched beaches	× Will not protect against flooding
Revetments	× \	Will not protect against flooding	Cove	× Will not protect against flooding
Embankments		Will protect against flooding	Dune stabilisation	Potentially feasible
Maintenance	🖌 i	There are existing defences ncluding seawalls, rock armour and dunes	Managed realignment	 Will not hold the existing line
Groynes	× \	Will not protect against flooding	Nourishment	Potentially feasible
Detached breakwaters	× \	Will not protect against flooding	Beach drain	Will not protect against flooding
Headlands	× \	Will not protect against flooding	Additional Actions	 Wave overtopping study recommended
		Workshop Co	nclusions	
		it Boundary Boundary	ck	Z Dundon: Dundon: Coastal Path
		6c2.4 HICLE CATAMARAN FROM TROON TO (summer only) rne 2 hrs	Stinking Rock San ^o Mill Rock North Bay Nor	assie ds Barassie

Sub-Cell 6c3: Troon - Ayr

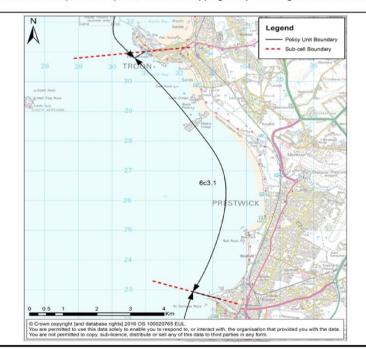
RISKS

	Coastal I	Flooding				Accretior	/ Erosion				Wave
				20)50			21	100		
Receptor Risk	200yr	200yr CC	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Max. Significant Wave Height (Hm0)
RPs (no.)	317	669		0	0	0		0	0	0	
RPs AAD (£)	£114	,471									1
NRPs (no.)	264	375		0	0	0		0	0	0	1
NRPs AAD (£)	£60,	,772									
A Roads (km)	0.298	0.299		0.000	0.000	0.000		0.000	0.000	0.000	<1.0m
B Roads (km)	0.230	0.989		0.000	0.000	0.000		0.000	0.000	0.000	1
Minor Roads (km)	0.240	0.340		0.000	0.000	0.000		0.000	0.000	0.000	1
Roads AAD (£)	£2,345										
SSSIs (km²)	0.041	0.067	0.008	0.000	0.000	0.000	0.008	0.000	0.000	0.000	

Policy Unit 6c3.1 (Troon to Ayr) is the only policy unit within this sub-cell, therefore the policy unit risk values are equal to the sub-cell risk values.

	Su	bcell		F	Policy unit	
		5c3			6c3.1	
	Troc	n - Ayr		Tr	oon to Ayr	
		Polic				
		Hold the	e line			
		Issu				
material needs protected	ed. Scot	tish Water rising main runs along th	e shore and needs pro in the past due to wav	tected e over	Erosion at Newton shore, area of fill I or moved. Local Authorities have topping. The maximum wave height	
Potential Actions		Technically feasible?	Potential Actions		Technically feasible?	
Seawalls	~	Will protect against flooding and erosion	Perched beaches		Will not protect against flooding but may provide erosion protection	
Revetments	~	Will protect against erosion	Cove		Will not protect against flooding but may provide erosion protection	
Embankments	~	Will protect against flooding	Dune stabilisation	×	Properties at risk either have no space for dunes of have existing seawall defences in front of them	
Maintenance	~	There are existing defences including seawalls, revetments, rock armour and dunes	Managed realignment	×	Will not hold the existing line	
Groynes		Will not protect against flooding but may provide erosion protection	Nourishment	~	Potentially feasible to protect the SW asset	
Detached breakwaters		Will not protect against flooding but may provide erosion protection	Beach drain		Will not protect against flooding but may provide erosion protection	
Headlands		Will not protect against flooding but may provide erosion protection	Additional Actions	✓ Wave overtopping study recommended		
		Workshop Co	Inclusions			

Revetments a potential option to protect against erosion at Newton shore. Scottish Water to manage risk to their asset and could consider nourishment as a potential option. Wave overtopping study including Titchfield Road recommended.



Sub-Cell 6c4: Ayr - Dunure

RISKS

	Coastal	Flooding				Accretior	n / Erosion				Wave
				20)50			21	L OO		
Receptor Risk	200yr	200yr CC	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Max. Significant Wave Height (Hm0)
RPs (no.)	173	575		0	0	0		0	0	0	
RPs AAD (£)	£143	3,844									1
NRPs (no.)	26	59		0	0	0		0	0	0	1
NRPs AAD (£)	£27,	.936									1
A Roads (km)	0.397	0.496		0.000	0.000	0.000		0.000	0.000	0.000	1.5-2.0m
B Roads (km)	0.000	0.101		0.000	0.000	0.000		0.000	0.000	0.000	1
Minor Roads (km)	0.203	1.010		0.000	0.000	0.000		0.000	0.000	0.000]
Roads AAD (£)	£8,209										1
SSSIs (km²)	0.062	0.070	0.001	0.000	0.000	0.000	0.001	0.000	0.000	0.000	1

Policy Unit 6c4.1: Ayr to Greenan Castle

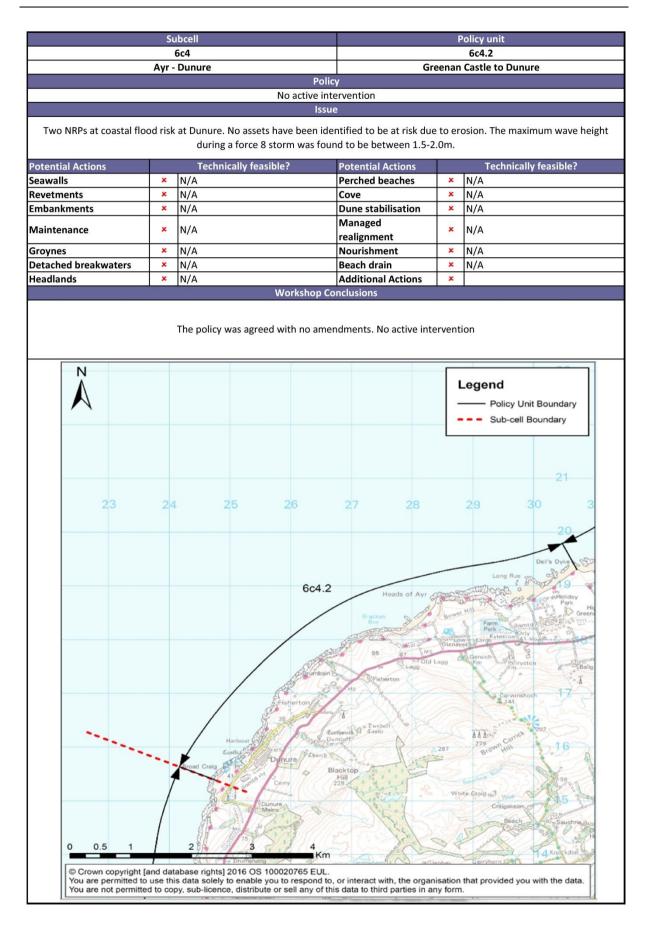
RISKS

	Coastal	Flooding		Accretion / Erosion								
			2050									
Receptor Risk	200yr	200yr CC	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Max. Significant Wave Height (Hm0)	
RPs (no.)	173	575		0	0	0		0	0	0		
RPs AAD (£)	£143,844										1	
NRPs (no.)	24	57		0	0	0		0	0	0	1	
NRPs AAD (£)	£14,	,353									1	
A Roads (km)	0.397	0.496		0.000	0.000	0.000		0.000	0.000	0.000	<1.0m	
B Roads (km)	0.000	0.101		0.000	0.000	0.000		0.000	0.000	0.000	1	
Minor Roads (km)	0.203	1.010		0.000	0.000	0.000		0.000	0.000	0.000	1	
Roads AAD (£)	£8,	209									1	
SSSIs (km ²)	0.013	0.014	0.001	0.000	0.000	0.000	0.001	0.000	0.000	0.000	1	

Policy Unit 6c4.2: Greenan Castle to Dunure

	Coastal	Flooding				Accretior	n / Erosion				Wave
	1			20	50			21	.00		
Receptor Risk	200yr	200yr CC	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Max. Significant Wave Height (Hm0)
RPs (no.)	0	0		0	0	0		0	0	0	
RPs AAD (£)	£0										1
NRPs (no.)	2	2		0	0	0		0	0	0	1
NRPs AAD (£)	£13	.583									1
A Roads (km)	0.000	0.000		0.000	0.000	0.000		0.000	0.000	0.000	1.5-2.0m
B Roads (km)	0.000	0.000		0.000	0.000	0.000		0.000	0.000	0.000	1
Minor Roads (km)	0.000	0.000		0.000	0.000	0.000		0.000	0.000	0.000	1
Roads AAD (£)	£	0									1
SSSIs (km ²)	0.049	0.056	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1

Significant coastal flood risk a (Doonfoot). No assets have bee Potential Actions Seawalls \checkmark Revetments \checkmark Embankments \checkmark Maintenance \checkmark Detached breakwaters \times Headlands \times Maintenance of the South Pier	6c4 - Dunure Polie Hold the Issu at River St (Ayr), Westfield Rd/Clarke in identified to be at risk due to eros to be less the Technically feasible? Will protect against flooding Will protect against flooding Will protect against flooding There are existing defences including seawalls, revetments, rock armour, dunes and the south pier. Will not protect against flooding Workshop Co was suggested due to its importance won was recommended. The policy under the lime	cy e line e Avenue/Arrol Dr (Seaf e Avenue/Arrol Dr (Seaf ion. The maximum wav han 1.0m. Potential Actions Perched beaches Cove Dune stabilisation Managed realignment Nourishment Beach drain Additional Actions onclusions e in maintaining the po unit boundary was adju	field) ar ve heigh x x v x v x v x v v rt at Ay	Technically feasible? Will not protect against flooding Will not protect against flooding Potentially feasible at Seafield Will not hold the existing line Potentially feasible at Seafield Will not protect against flooding Wave overtopping study recommended r. A wave overtopping study along
Significant coastal flood risk a (Doonfoot). No assets have bee Potential Actions Seawalls \checkmark Revetments \checkmark Embankments \checkmark Maintenance \checkmark Groynes \times Detached breakwaters \times Headlands \times Maintenance of the South Pier the promenade at south Ayr to	Poli Hold the Issu at River St (Ayr), Westfield Rd/Clarke en identified to be at risk due to eros to be less th Technically feasible? Will protect against flooding Will protect against flooding Will protect against flooding There are existing defences including seawalls, revetments, rock armour, dunes and the south pier. Will not protect against flooding Will not protect against flooding	cy e line e Avenue/Arrol Dr (Seaf e Avenue/Arrol Dr (Seaf ion. The maximum wav han 1.0m. Potential Actions Perched beaches Cove Dune stabilisation Managed realignment Nourishment Beach drain Additional Actions onclusions e in maintaining the po unit boundary was adju	field) ar ve heigh x x v x v x v x v v rt at Ay	nd Gearholm Rd/Goukscroft Park at during a force 8 storm was found Technically feasible? Will not protect against flooding Will not protect against flooding Potentially feasible at Seafield Will not hold the existing line Potentially feasible at Seafield Will not protect against flooding Wave overtopping study recommended rr. A wave overtopping study along
(Doonfoot). No assets have been Potential Actions Seawalls Seawalls Revetments Embankments Vaintenance Groynes Seawallands Maintenance of the South Pier the promenade at south Ayr to	Hold the Issu at River St (Ayr), Westfield Rd/Clarke en identified to be at risk due to eros to be less th Technically feasible? Will protect against flooding Will protect against flooding Will protect against flooding There are existing defences including seawalls, revetments, rock armour, dunes and the south pier. Will not protect against flooding Will not protect against flooding	e line Je Avenue/Arrol Dr (Seaf ion. The maximum wav han 1.0m. Potential Actions Perched beaches Cove Dune stabilisation Managed realignment Nourishment Beach drain Additional Actions onclusions e in maintaining the pount boundary was adju	ve heigh x x x x x x x x x x y r t at Ay	Technically feasible? Will not protect against flooding Will not protect against flooding Potentially feasible at Seafield Will not hold the existing line Potentially feasible at Seafield Will not protect against flooding Wave overtopping study recommended r. A wave overtopping study along
(Doonfoot). No assets have been Potential Actions Seawalls Seawalls Revetments Embankments Vaintenance Groynes Seawallands Maintenance of the South Pier the promenade at south Ayr to	at River St (Ayr), Westfield Rd/Clarke en identified to be at risk due to eros to be less th Technically feasible? Will protect against flooding Will protect against flooding Will protect against flooding There are existing defences including seawalls, revetments, rock armour, dunes and the south pier. Will not protect against flooding Will not protect against flooding	e Avenue/Arrol Dr (Seaf ion. The maximum wav nan 1.0m. Potential Actions Perched beaches Cove Dune stabilisation Managed realignment Nourishment Beach drain Additional Actions onclusions e in maintaining the pount boundary was adju	ve heigh x x x x x x x x x x y r t at Ay	Technically feasible? Will not protect against flooding Will not protect against flooding Potentially feasible at Seafield Will not hold the existing line Potentially feasible at Seafield Will not protect against flooding Wave overtopping study recommended r. A wave overtopping study along
(Doonfoot). No assets have been Potential Actions Seawalls Seawalls Revetments Embankments Maintenance Groynes X Detached breakwaters X Headlands X Maintenance of the South Pier the promenade at south Ayr to	n identified to be at risk due to eros to be less th Technically feasible? Will protect against flooding Will not protect against flooding Will protect against flooding There are existing defences including seawalls, revetments, rock armour, dunes and the south pier. Will not protect against flooding Will not protect against flooding Workshop Co was suggested due to its importance	ion. The maximum wav nan 1.0m. Potential Actions Perched beaches Cove Dune stabilisation Managed realignment Nourishment Beach drain Additional Actions onclusions e in maintaining the pount boundary was adju	ve heigh x x x x x x x x x x y r t at Ay	Technically feasible? Will not protect against flooding Will not protect against flooding Potentially feasible at Seafield Will not hold the existing line Potentially feasible at Seafield Will not protect against flooding Wave overtopping study recommended r. A wave overtopping study along
Seawalls ✓ Revetments × Embankments ✓ Maintenance ✓ Groynes × Detached breakwaters × Headlands × Maintenance of the South Pier the promenade at south Ayr to	Technically feasible? Will protect against flooding Will not protect against flooding Will protect against flooding There are existing defences including seawalls, revetments, rock armour, dunes and the south pier. Will not protect against flooding	Potential Actions Perched beaches Cove Dune stabilisation Managed realignment Nourishment Beach drain Additional Actions onclusions e in maintaining the pount boundary was adjutice	× × × × ×	Will not protect against flooding Will not protect against flooding Potentially feasible at Seafield Will not hold the existing line Potentially feasible at Seafield Will not protect against flooding Wave overtopping study recommended
Revetments × Embankments ✓ Maintenance ✓ Groynes × Detached breakwaters × Headlands × Maintenance of the South Pier the promenade at south Ayr to	Will not protect against flooding Will protect against flooding There are existing defences including seawalls, revetments, rock armour, dunes and the south pier. Will not protect against flooding	Cove Dune stabilisation Managed realignment Nourishment Beach drain Additional Actions onclusions e in maintaining the pounit boundary was adju	× × × × ×	Will not protect against flooding Potentially feasible at Seafield Will not hold the existing line Potentially feasible at Seafield Will not protect against flooding Wave overtopping study recommended
Embankments Maintenance Groynes A Maintenance Headlands Maintenance of the South Pier the promenade at south Ayr to	Will protect against flooding There are existing defences including seawalls, revetments, rock armour, dunes and the south pier. Will not protect against flooding	Dune stabilisation Managed realignment Nourishment Beach drain Additional Actions onclusions e in maintaining the pount boundary was adjuit	× × × ×	Potentially feasible at Seafield Will not hold the existing line Potentially feasible at Seafield Will not protect against flooding Wave overtopping study recommended
Maintenance Groynes Ended breakwaters Headlands Maintenance of the South Pier the promenade at south Ayr to	There are existing defences including seawalls, revetments, rock armour, dunes and the south pier. Will not protect against flooding Will not protect against flooding Will not protect against flooding Workshop Co was suggested due to its importance own was recommended. The policy u	Managed realignment Nourishment Beach drain Additional Actions onclusions e in maintaining the po unit boundary was adju	× × ×	Will not hold the existing line Potentially feasible at Seafield Will not protect against flooding Wave overtopping study recommended rr. A wave overtopping study along
Groynes × Detached breakwaters × Headlands × Maintenance of the South Pier the promenade at south Ayr to	including seawalls, revetments, rock armour, dunes and the south pier. Will not protect against flooding Will not protect against flooding Will not protect against flooding Workshop Co was suggested due to its importance own was recommended. The policy u	realignment Nourishment Beach drain Additional Actions onclusions e in maintaining the pounit boundary was adju	✓ × ✓	Potentially feasible at Seafield Will not protect against flooding Wave overtopping study recommended rr. A wave overtopping study along
Detached breakwaters × Headlands × Maintenance of the South Pier the promenade at south Ayr to	Will not protect against flooding Will not protect against flooding Workshop Co was suggested due to its importance own was recommended. The policy u	Beach drain Additional Actions onclusions e in maintaining the po unit boundary was adju	× v ort at Ay	Will not protect against flooding Wave overtopping study recommended rr. A wave overtopping study along
Headlands × Maintenance of the South Pier the promenade at south Ayr to	Will not protect against flooding Workshop Co was suggested due to its importance own was recommended. The policy u	Additional Actions onclusions e in maintaining the po unit boundary was adju	ort at Ay	Wave overtopping study recommended rr. A wave overtopping study along
Maintenance of the South Pier the promenade at south Ayr to	Workshop Co was suggested due to its importance own was recommended. The policy u	onclusions e in maintaining the po unit boundary was adju	ort at Ay	recommended r. A wave overtopping study along
the promenade at south Ayr to	was suggested due to its importance own was recommended. The policy u	e in maintaining the po unit boundary was adju		
	24			Policy Unit Boundary
	24		P	9
	22	St Nichoas Rock		
29	30 31 Deil's Dyke	32 Seefield	A Department of the second sec	isle's
0 70.25 0.5 © Crown copyrigh You are permitted	Greenan	onfrou	Burna	Rozelle



Sub-Cell 6c5: Dunure - Turnberry

RISKS

	Coastal	Flooding				Accretior	n / Erosion				Wave
			2050								
Receptor Risk	200yr	200yr CC	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Max. Significant Wave Height (Hm0)
RPs (no.)	1	1		0	0	0		0	0	0	
RPs AAD (£)	£7,	785									
NRPs (no.)	2	5		0	0	0		0	0	0	1
NRPs AAD (£)	£1,	143									1
A Roads (km)	0.000	0.015		0.000	0.000	0.000		0.000	0.000	0.000	1.5-2.0m
B Roads (km)	0.000	0.000		0.000	0.000	0.000		0.000	0.000	0.000	1
Minor Roads (km)	0.014	0.093		0.000	0.000	0.000		0.000	0.000	0.000	1
Roads AAD (£)	£2	25									1
SSSIs (km²)	0.056	0.065	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1

Policy Unit 6c5.1 (Dunure to Turnberry) is the only policy unit within this sub-cell, therefore the policy unit risk values are equal to the sub-cell risk values.

		ıbcell 6c5					Policy unit 6c5.1
Di	inure ·	- Turnberr	У			Dunu	re to Turnberry
				Polic	х у		
			N	o active int	ervention		
				lssu	e		
solated areas of coastal	flood ı				head Bay and Turnber nd to be between 1.5		house. The maximum wave heigh
ential Actions		Techr	nically feasible	?	Potential Actions		Technically feasible?
walls	×	N/A			Perched beaches	×	N/A
etments	×	N/A			Cove	×	N/A
pankments	×	N/A			Dune stabilisation	×	N/A
ntenance	×	N/A			Managed	×	N/A
intenance					realignment		
ynes		N/A			Nourishment	×	N/A
ached breakwaters		N/A			Beach drain	×	N/A
dlands	×	N/A	Market Market		Additional Actions	×	
			W	orkshop Co	onclusions		
Legend							N
Policy Unit	Bound	lary		16			
Sub-cell Bo							Stroad Craig
	Junuary	y					
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				/	Glasson Rock	The second	Parts Glenside
					Barwhin Point	The state	5 Strongeron 1 1
			/	- 09	Maidenhead	han 33	62 RA31 1
					Bay O	- Aller	Birolebill
			/		Day Martin	-36	Morriston Baivaird
			/	1 95	Maidens Maidens	The	113
			Port	TELET State	10 - 23 Ma	E CC	Cottage My Ford
		- +	Castla Port	0000	Junding Starnesto	0 10	PH 114 Bianefield
				initial in the first	Strip Strough	1	124 Kirkoswald
			umberry Point	-Mem!	(Private) BShanter	1	Merkland E
			umberry Polini	Memt 67	(Private) Shantor	1 120 Rd	MS on Minnybae
0 0.5 1	2		amberry Pornelling	Memil 07	Utter Turberty Dalquat	84 Illochniel	MS Merkland
0 0.5 1	_	ase rights1	Turoberov	Cm 2765 EU	Shanter Shanter	a Bi Ilochniel	MS on Minnybae

Sub-Cell 6c6: Turnberry - Bennane Head

RISKS

	Coastal	Flooding				Accretior	n / Erosion				Wave
				20)50			21	L OO		
Receptor Risk	200yr	200yr CC	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Max. Significant Wave Height (Hm0)
RPs (no.)	8	15		0	0	0		0	0	0	
RPs AAD (£)	£9,190										1
NRPs (no.)	13	22		0	0	0		0	0	0	1
NRPs AAD (£)	£4,	153									1
A Roads (km)	0.240	0.473		0.000	0.051	0.115		0.048	0.021	0.101	1.5-2.0m
B Roads (km)	0.000	0.000		0.000	0.000	0.000		0.000	0.000	0.000	1
Minor Roads (km)	0.088	0.192		0.000	0.000	0.107		0.030	0.011	0.073	1
Roads AAD (£)	£6,257										1
SSSIs (km ²)	0.268	0.292	0.002	0.001	0.001	0.003	0.002	0.001	0.001	0.003	1

Policy Unit 6c6.1: Turnberry to North Girvan

RISKS

	Coastal I	Flooding				Accretior	n / Erosion				Wave
				20)50			2:	100		
Receptor Risk	200yr	200yr CC 2	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Max. Significant Wave Height (Hm0)
RPs (no.)	1	2		0	0	0		0	0	0	
RPs AAD (£)	£692										1
NRPs (no.)	0	0		0	0	0		0	0	0]
NRPs AAD (£)	£	0									1
A Roads (km)	0.020	0.020		0.000	0.000	0.000		0.000	0.000	0.000	1.5-2.0m
B Roads (km)	0.000	0.000		0.000	0.000	0.000		0.000	0.000	0.000	1
Minor Roads (km)	0.000	0.000		0.000	0.000	0.000		0.000	0.000	0.000	1
Roads AAD (£)	£7	05									1
SSSIs (km²)	0.059	0.067	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1

Policy Unit 6c6.2: Girvan

	Coastal	Flooding				Accretior	n / Erosion				Wave
				20)50			21	L OO		
Receptor Risk	200yr	200yr CC	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Max. Significant Wave Height (Hm0)
RPs (no.)	7	13		0	0	0		0	0	0	
RPs AAD (£)	£8,	498									1
NRPs (no.)	13	21		0	0	0		0	0	0	1
NRPs AAD (£)	£4,	153									1
A Roads (km)	0.034	0.119		0.000	0.000	0.000		0.000	0.000	0.000	<1.0m
B Roads (km)	0.000	0.000		0.000	0.000	0.000		0.000	0.000	0.000	1
Minor Roads (km)	0.088	0.191		0.000	0.000	0.000		0.000	0.000	0.000	1
Roads AAD (£)	£1,	184									1
SSSIs (km ²)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1

Policy Unit 6c6.3: South Girvan to Bennane Head

	Coastal	Flooding				Accretior	n / Erosion				Wave
				20)50			21	.00		
Receptor Risk	200yr	200yr CC	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Max. Significant Wave Height (Hm0)
RPs (no.)	0	0		0	0	0		0	0	0	
RPs AAD (£)	£0										1
NRPs (no.)	0	1		0	0	0		0	0	0	1
NRPs AAD (£)	£	0									1
A Roads (km)	0.186	0.334		0.000	0.051	0.115		0.048	0.021	0.101	<1.0m
B Roads (km)	0.000	0.000		0.000	0.000	0.000		0.000	0.000	0.000	1
Minor Roads (km)	0.000	0.001		0.000	0.000	0.107		0.030	0.011	0.073	1
Roads AAD (£)	£4,	368									1
SSSIs (km²)	0.209	0.225	0.002	0.001	0.001	0.003	0.002	0.001	0.001	0.003	1

		bcell 5c6					Policy unit 6c6.1
Turnb	201	Bennane	Head			Turnber	ry to North Girvan
				Pc	olicy		
					ntervention		
				ls	sue		
tod coastal flood rick id	lontifi	ad to a ci	ngla rasidan	tial property	(PP) at Dippla Ther	o is notonti	ial for erosion of agricultural lan
					force 8 storm was for		
	v. me						
ential Actions		-	hnically feas	ible?	Potential Action		Technically feasible?
walls		N/A			Perched beaches		N/A
etments	×	N/A			Cove	×	N/A
ankments	x	N/A			Dune stabilisatio	on 🗴	N/A
ntenance	×	N/A			Managed	×	N/A
	×				realignment	×	NI/A
ynes ached breakwaters	×	N/A N/A			Nourishment Beach drain	×	N/A N/A
dlands	×	N/A			Additional Actio		N/A
ulallus		N/A		Workshop	Conclusions	113	
				workshop	conclusions		
Logond						/	Juning a
Legend	_					/	Port Myrray
Policy Unit							TO 25 Part Store
Sub-cell Bo	oundar	У				Car	The Port File The Landing
					4	Turnberry Por	Ment 07 (Private) ESt
							and the second
							nberry
							5°0 35
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						Brest Rocks	5°0 35
						Brest Rocks	5°0 35
						Balken	5°0 35
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					6c6.1	Balken Ma	a late a Drumber a late a Drumber b Drum
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					6c6.1	Balken Ma	a late a Drumber a late a Drumber a late a Drumber a Drumber
					6c6.1	Balken Ma	na Isla a Drumber na Isla b Drumber b Dr
					6c6.1	Balken Ma	na Isle a Drumber na Isle a Drumber a Drumber a Drumber a Drumber a Drumber a Drumber a Drumber a Drumber a Drumber a Drumber Dipple Drumber
					6c6.1	Balken Ma	ana late a bio da a bio
			15	16		Balken Ma	na lale a Drumber a lale a Drumber a bar drumber a bar drumber bar drumber b
2 13	14		15	16	6c6.1	Balken Ma	an late and a set of the set of
2 13	14		15	16		Balken Ma	ana late a bio da a bio
2 13	14		15	16		Balken Ma	a late a bio
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				16			na Isla a Drumber na Isla a Drumber a Dr
	14		15	16			an late and a second s

	Su	ıbcell		F	Policy unit
·		6c6			6c6.2
Turn	berry -	Bennane Head Polic			Girvan
		Hold the	1947 - 1947 1947 - 1947		
		Issu	e		
Significant coastal flood	risk adj	acent to the Water of Girvan and A7	77. Significant joint fluv	rial and	l coastal flod risk with the Water of
Girvan and Mill Burn. Erc	osion ris	sk at Girvan golf course. The maximu		a force	e 8 storm was found to be less thar
		1.0m	1		
otential Actions		Technically feasible?	Potential Actions		Technically feasible?
eawalls	~	Will protect against flooding	Perched beaches		Will not protect against flooding but may provide erosion protection
Revetments	~	Will protect against erosion	Cove		Will not protect against flooding but may provide erosion protection
mbankments	~	Will protect against flooding	Dune stabilisation	~	Potentially feasible at Girvan golf club
Maintenance	~	There are existing defences including harbour walls, seawalls, revetments and rock armour	Managed realignment	×	Will not hold the existing line
Groynes		Will not protect against flooding but may provide erosion protection	Nourishment	~	Potentially feasible at Girvan golf club
Detached breakwaters		Will not protect against flooding but may provide erosion protection	Beach drain		Will not protect against flooding but may provide erosion protection
leadlands		Will not protect against flooding but may provide erosion protection	Additional Actions	~	Flood study at Girvan golf course
	arbour	be partially protected by golf club in regularly needs dredged due to sedi		3553	
		d Dicy Unit Boundary Jab-cell Boundary 6c6.2		Girvin Mai	
c	0 0.25	0.5 1 1.5 Craigski Kright (and database rights) 2016 OS 100020765 EUL.	P. Fm	pochparl	Dow

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	Sul	bcell		F	Policy unit
	6	ic6			6c6.3
Turn	berry - E	Bennane Head		h Girva	an to Bennane Head
		Polic Hold th			
		lssu			
			um wave height during		lotel was also found to be at risk due e 8 storm was found to be less than
Potential Actions		Technically feasible?	Potential Actions		Technically feasible?
Seawalls	V	Will protect against flooding and erosion	Perched beaches		Will not protect against flooding but may provide erosion protection
Revetments		Will not protect against flooding but may provide erosion protection	Cove		Will not protect against flooding but may provide erosion protection
Embankments	~	Will protect against flooding	Dune stabilisation	×	Not suitable for this policy unit.
Maintenance	✓	The A77 is mostly defended currently	Managed realignment		Potentially feasible if the road can be diverted
Groynes		Will not protect against flooding but may provide erosion protection	Nourishment		Potentially feasible
Detached breakwaters		Will not protect against flooding but may provide erosion protection	Beach drain		Will not protect against flooding but may provide erosion protection
Headlands		Will not protect against flooding but may provide erosion protection	Additional Actions	×	
		blicy Unit Boundary			6c6.2 N
		96			
		95		2	
		93	606.3		reg eral and and and and and and and and and and
		92			Second Contraction
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			and the second s	A C	1921 Balance B
		Karte	Shareh Enzore 177 177 Construction 140 178 178 178 Entomos 110	Carrother	
	0 0.5 1	2 3 4 4	and the second of	Ser P	

Sub-Cell 6d1: Bennane Head - Currarie Port

RISKS

	Coastal	Flooding				Accretion	/ Erosion				Wave
				20)50			21	100		
Receptor Risk	200yr	200yr CC	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Max. Significant Wave Height (Hm0)
RPs (no.)	0	0		0	0	0		0	0	1	
RPs AAD (£)	£	0									1
NRPs (no.)	1	1		0	0	0		0	0	0	1
NRPs AAD (£)	£1,	045					e.				1
A Roads (km)	0.035	0.047		0.000	0.000	0.477		0.000	0.035	0.531	1.5-2.0m
B Roads (km)	0.000	0.000		0.000	0.000	0.000		0.000	0.000	0.000	1
Minor Roads (km)	0.000	0.026		0.000	0.000	0.000		0.000	0.000	0.000	1
Roads AAD (£)	£1,	133									
SSSIs (km²)	0.202	0.216	0.002	0.000	0.000	0.000	0.002	0.000	0.000	0.000	

Policy Unit 6d1.1: Bennane Head to Ballantrae

RISKS

	Coastal	Flooding				Accretior	n / Erosion				Wave
				20)50			21	100		Max. Significant Wave Height (Hm0)
Receptor Risk 200yr RPs (no.) 0	200yr	200yr CC	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	
RPs (no.)	0	0		0	0	0		0	0	1	
RPs AAD (£)	£0										
NRPs (no.)	1	1		0	0	0		0	0	0]
NRPs AAD (£)	£1,	045									
A Roads (km)	0.035	0.047		0.000	0.000	0.477		0.000	0.035	0.531	1.0-1.5m
B Roads (km)	0.000	0.000		0.000	0.000	0.000		0.000	0.000	0.000	1
Minor Roads (km)	0.000	0.000		0.000	0.000	0.000		0.000	0.000	0.000	1
Roads AAD (£)	£1,	133									1
SSSIs (km²)	0.038	0.044	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1

Policy Unit 6d1.2: South Ballantrae to Currarie Port

	Coastal	Flooding				Accretior	n / Erosion				Wave
				20)50	_		21	L OO		
Receptor Risk RPs (no.)	200yr	200yr CC	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Max. Significant Wave Height (Hm0)
RPs (no.)	0	0		0	0	0		0	0	0	
RPs AAD (£)	£0										1
NRPs (no.)	0	0		0	0	0		0	0	0	1
NRPs AAD (£)	£	0			с						1
A Roads (km)	0.000	0.000		0.000	0.000	0.000		0.000	0.000	0.000	1.5-2.0m
B Roads (km)	0.000	0.000		0.000	0.000	0.000		0.000	0.000	0.000	1
Minor Roads (km)	0.000	0.026		0.000	0.000	0.000		0.000	0.000	0.000	1
Roads AAD (£)	£	.0									1
SSSIs (km²)	0.164	0.173	0.002	0.000	0.000	0.000	0.002	0.000	0.000	0.000	1

		Su	bcell					F	Policy unit
		6	5d1						6d1.1
В	ennan	e Hea	d - Currarie F	Port			Ben	nane	Head to Ballantrae
					Polic Hold the				
					Issue				
									trae. A significant section of the A77
was found to be at	risk dı	ue to c							port Scotland. The maximum wave
Potential Actions			Technic	-	rce 8 storm was f asible?	Potential A		.0-1.5	m. Technically feasible?
rotential Actions							ctions		
Seawalls		~		ding or	e for the isolated r to protect the on	Perched be	aches	~	Potentially feasible to protect the A77 against erosion
Revetments		~	Potentially f A77 against		e to protect the m	Cove		~	Potentially feasible to protect the A77 against erosion
Embankments		~	Potentially f area of flood		e for the isolated	Dune stabil	isation	~	Potentially feasible to protect the A77 against erosion
Maintenance	ance✓There are existing defences including seawalls and rock arr✓Potentially feasible to protect A77 against erosion					Managed realignmen	t		Potentially feasible if the road can be diverted
Groynes	A77 against erosion					Nourishment V			Potentially feasible to protect the A77 against erosion
Detached breakwate	hed breakwaters Potentially fea A77 against ei Potentially fea					e to protect the n Beach drain			Potentially feasible to protect the A77 against erosion
Headlands		~	Potentially f A77 against		e to protect the	Additional	Actions	×	
			A77 agailist	0310	Workshop Co	nclusions			
Significant defences	are cu				enance is a poten I. Transport Scotl				nent is also a potential option if the sset.
	Lege	Policy	Unit Boundary Il Boundary						C C C C C C C C C C C C C C C C C C C
							~	Sa	Itereuchan Port
							Bennane	Head	99 97 199 199 199 199 199 199 199 199 19
						6d1.1		al	7 Moss MS Hillop Cotts
							0	Contra Participa	65 Balig:Fm
						Ballantrae Bay Ballantra		ms 5 ark End	78 Cair Dinòmill froms off "Cairn M5 22
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		ubcell 6d1				Policy unit 6d1.2
Dannar				Cauth	Della	
Bennar	ie Hea	ad - Currarie Po			n Balla	ntrae to Currarie Port
				licy		
				ntervention		
			ISS	sue		
assets have been iden	tified t			g or erosion in this policy to be between 1.5-2.0m		The maximum wave height during
ential Actions		Technical	y feasible?	Potential Actions		Technically feasible?
walls	×	N/A		Perched beaches	×	N/A
etments	×	N/A		Cove	×	N/A
ankments	×	N/A		Dune stabilisation	×	N/A
215				Managed		
ntenance	×	N/A		realignment	×	N/A
ynes	×	N/A		Nourishment	×	N/A
ached breakwaters	×	N/A		Beach drain	×	N/A
dlands	×	N/A		Additional Actions	×	
ulanus		IN/A	Markshan	Conclusions	^	
			workshop	Conclusions		
Legend					K	Ballantrae
Legend						Ballantrae
					1	
Policy Uni					/	
Sub-cell E	lounda	iry			/	
					/	Garleffin
				/		ET S STOR
				/		Kinniegar Gemy MS
						1 2 2 B
				ogavo	ch Rock	o gans to the
					°C C	Downan B
02 0	3	04	05	06 ^{Downan Point}	907-	75 00
					Downan	Hill
					100	
					11	Meadow Park
			6d1.2		Cra	Craigalbert
						and a start of the
					ess	
				2		0 162
			/	Dove Cove	146	Kilantringan
				5 143		A A FFIAN
				C2 (m) / / / / /	-	Low
				Currarie Fm G	en	Ballochdowan
				C2 (m) / / / / /	en	Ballochdewan
			Currarie Po	C2 (m) / / / / /	engo	Ballochdowan
			Currarie Po	C2 (m) / / / / /	en	Ballochdowan
			Surrarie Pe	Currarie Fin Containe D	en	Ballochdowan
			Currarie Pc	C2 (m) / / / / /	en	Ballochdowan
			Currarie Po	Currarie Em Currarie Em Currarie Em Currarie Em Currarie Em Currarie Em Currarie Em Currarie Em Currarie Em Currarie Em Currarie Em Currarie En Curra	en	PHigh Ballochdowan
				raigangat 123	e	Ballochdowan High Ballochdowan
			Currario Po	raigangat 123 134		PHigh Ballochdowan
		/		raigangat 123		Ballochdowan High Ballochdowan
				raigangat 123 134 134 193		High Ballochdowan
			rackness Hole	raigangat 123 134		Ballochdowan High Ballochdowan
			rackness Hole	raigangat 123 134 134 193		High Ballochdowan
			rackness Hole	raigangat 123 134 134 193		Ballochdowan High Bàllochdowan Ballochdowan Ballochdowan Ballochdowan Ballochdowan Ballochdowan Ballochdowan Ballochdowan
0 0.5 1			rackness Hole	raigangat 123 134 134 193		Ballochdowan Prigh Ballochdowan 323 Carlock Hill Milgarva Green Benan MS
0 0.5 1		2	rackness Hole	Currarie Careere Careere 123 98 134 193 134 193 193 Careere Santo	er in	High Ballochdowan
© Crown copyright [a			rackness Hole Burn Foot	Currarie Finigangal 123 134 134 134 193 Ca Enderry H	er tim titt	Ballochdowan High Ballochdowan Scarlock Hill Milgarva Green Benan MS

Sub-Cell 6d2: Currarie Port - Milleur Point

RISKS

	Coastal	Flooding				Accretior	n / Erosion				Wave
				20)50			21	100		
Receptor Risk	200yr	200yr CC	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Max. Significant Wave Height (Hm0)
RPs (no.)	137	257		0	0	0		0	0	0	
RPs AAD (£)	£137	,081									1
NRPs (no.)	30	41		0	0	0		0	0	0	1
NRPs AAD (£)	£39,	.911									1
A Roads (km)	5.726	7.372		0.000	0.000	0.000		0.000	0.000	0.000	1.5-2.0m
B Roads (km)	0.000	0.000		0.000	0.000	0.000		0.000	0.000	0.000	1
Minor Roads (km)	0.112	0.239		0.000	0.000	0.000		0.000	0.000	0.000	1
Roads AAD (£)	£145	,400									1
SSSIs (km²)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1

*Note this sub-cell contains assets located within Dumfries & Galloway Council, therefore the sum of the policy units may not total the sub-cell value.

Policy Unit 6d2.1: Currarie Port to Galloway Burn

Receptor Risk	Coastal Flooding		Accretion / Erosion								Wave
		200yr CC	2050				2100				
	200yr		Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Max. Significant Wave Height (Hm0)
RPs (no.)	0	0		0	0	0		0	0	0	
RPs AAD (£)	£0										1
NRPs (no.)	1	1		0	0	0		0	0	0	1
NRPs AAD (£)	£1,045										1
A Roads (km)	0.000	0.000		0.000	0.000	0.000		0.000	0.000	0.000	1.5-2.0m
B Roads (km)	0.000	0.000		0.000	0.000	0.000		0.000	0.000	0.000	
Minor Roads (km)	0.000	0.000		0.000	0.000	0.000		0.000	0.000	0.000	
Roads AAD (£)	£5										1
SSSIs (km²)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1

	Subcell		Policy unit
	6d2		6d2.1
Curra	rie Port - Milleur Point	Policy	urrarie Port to Galloway Burn
		No active intervention	
		Issue	
	n		
solated area of coastal			e at risk due to erosion. The maximum way
	neight during a forc	e 8 storm was found to be betwee	n 1.5-2.0m.
ential Actions	Technically feas	ible? Potential Actions	Technically feasible?
walls	× N/A	Perched beaches	× N/A
etments	× N/A	Cove	× N/A
pankments	× N/A	Dune stabilisation	× N/A
intenance	× N/A	Managed	× N/A
		realignment	
ynes ached breakwaters	× N/A × N/A	Nourishment Beach drain	× N/A × N/A
ached breakwaters	× N/A	Additional Actions	
		Workshop Conclusions	· · · · ·
N		(123)	Legend
		AR	Policy Unit Boundary
	·	Frackness Hole	
		89570	Sub-cell Boundary
		A AL	
		Burn Foot	tairn Green Be
	7	the start	
		ALX/CY	
		al house	Des to the
		Portandea	and the second
		Fortandea Jr 105 Turf Hilt	Penderry Hill
		KON//CA	
		Standing Standing Stones	andloch Hitt
		Finnarts Hill "5	
		Finnarts 143 Enclosure 024	
		Point & Cairn	Prumpo
Port Milleur Po	Int		55 MS
Tores of	6d2.1	Dyke Foot	
A LAND	002.1		
		50 11	az a Low Mark
STOT IST	he Beef Barrel	MS INS I	A A A A A A A A A A A A A A A A A A A
		Garry Point	
		Finnarts Bay Whidan	a 206 + + + + + + + + + + +
		3.9/(4.7	* * * * * * * * * * * *
Heighton		SE CH	A A A A A A A A A A A A A A A A A A A
Portenc	alzie		tong To
	Lady Bay	8 Juns	Laight # # # #
			* * 23 /2 * 20
2 Bar	and the second s	ELG -e	
			Aarchburn $x + x + x + x + x + x + x + x + x + x $
Lossat 0 0.25 0.5	Jamieson's		Aarchburn 8 7 7 7 8
	1.5 Jamieson's 2 Zint		8
0 0.25 0.5	and database rights] 2016 OS 1	00020765 EUL.	8

Sub-Cell A1: Lochranza - Clauchlands Point

RISKS

	Coastal	Flooding				Accretior	n / Erosion				Wave
				20)50		2100				
Receptor Risk	200yr	200yr CC	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Max. Significant Wave Height (Hm0)
RPs (no.)	17	48		0	0	0		0	0	1	
RPs AAD (£)	£16,	,628									1
NRPs (no.)	22	30		0	1	2		0	1	4]
NRPs AAD (£)	£24,	.444									
A Roads (km)	1.918	4.011	ĺ	0.000	0.000	0.000		0.000	0.000	0.000	<1.0m
B Roads (km)	0.000	0.000		0.000	0.000	0.000		0.000	0.000	0.000	
Minor Roads (km)	0.000	0.000		0.000	0.000	0.000		0.000	0.000	0.000	1
Roads AAD (£)	£39,	.471									1
SSSIs (km²)	0.096	0.111	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1

Policy Unit A1.1: Lochranza

RISKS

	Coastal	Flooding				Accretion	n / Erosion				Wave
				20)50			21	100		
Receptor Risk	200yr 200yr CC	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Max. Significant Wave Height (Hm0)	
RPs (no.)	6	8		0	0	0		0	0	0	
RPs AAD (£)	£1,	£1,569									1
NRPs (no.)	3	4		0	0	0		0	0	0]
NRPs AAD (£)	£4,	415									1
A Roads (km)	0.404	0.952		0.000	0.000	0.000		0.000	0.000	0.000	<1.0m
B Roads (km)	0.000	0.000		0.000	0.000	0.000		0.000	0.000	0.000	1
Minor Roads (km)	0.000	0.000		0.000	0.000	0.000		0.000	0.000	0.000	1
Roads AAD (£)	£7,	924									1
SSSIs (km²)	0.001	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1

Policy Unit A1.2: Lochranza to Sannox

	Coastal	Flooding				Accretion	/ Erosion				Wave
		**		20)50			21	100		
Receptor Risk	200yr	200yr CC	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Max. Significant Wave Height (Hm0)
RPs (no.)	0	0		0	0	0		0	0	0	
RPs AAD (£)	£	£0]
NRPs (no.)	0	0		0	0	0		0	0	0]
NRPs AAD (£)	£	0									1
A Roads (km)	0.000	0.000		0.000	0.000	0.000		0.000	0.000	0.000	<1.0m
B Roads (km)	0.000	0.000		0.000	0.000	0.000		0.000	0.000	0.000	1
Minor Roads (km)	0.000	0.000		0.000	0.000	0.000		0.000	0.000	0.000	1
Roads AAD (£)	£	0									1
SSSIs (km²)	0.015	0.021	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1

Policy Unit A1.3: Sannox to Brodick

RISKS

	Coastal	Flooding		_		Accretior	n / Erosion				Wave
				20)50			2100			
Receptor Risk	200yr	200yr CC	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Max. Significant Wave Height (Hm0)
RPs (no.)	2	3		0	0	0		0	0	0	
RPs AAD (£)	£7,	£7,805									1
NRPs (no.)	0	0		0	0	0		0	0	0]
NRPs AAD (£)	£	0									1
A Roads (km)	0.578	1.572		0.000	0.000	0.000		0.000	0.000	0.000	<1.0m
B Roads (km)	0.000	0.000		0.000	0.000	0.000		0.000	0.000	0.000	
Minor Roads (km)	0.000	0.000		0.000	0.000	0.000		0.000	0.000	0.000	1
Roads AAD (£)	£10	,354									1
SSSIs (km²)	0.027	0.029	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1

Policy Unit A1.4: Brodick

RISKS

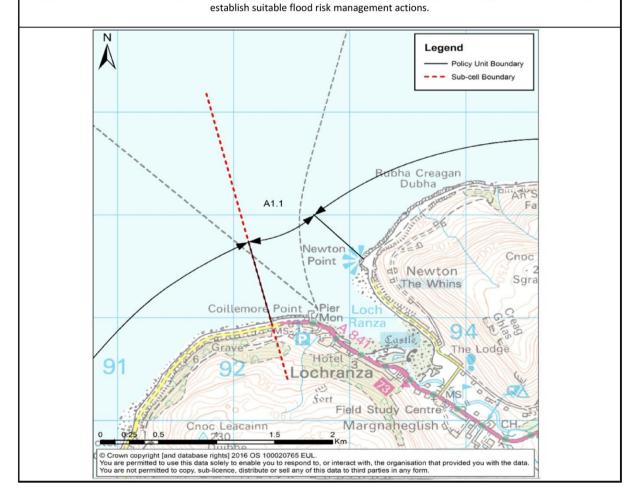
	Coastal	Flooding				Accretion	n / Erosion				Wave
				20)50			2:	100		
Receptor Risk	200yr 200yr C	200yr CC	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Max. Significan Wave Height (Hm0)
RPs (no.)	9	37		0	0	0		0	0	1	
RPs AAD (£)	£7,	£7,254									1
NRPs (no.)	19	26		0	1	2		0	1	4]
NRPs AAD (£)	£20,	.029									1
A Roads (km)	0.936	1.487		0.000	0.000	0.000		0.000	0.000	0.000	<1.0m
B Roads (km)	0.000	0.000		0.000	0.000	0.000		0.000	0.000	0.000	
Minor Roads (km)	0.000	0.000		0.000	0.000	0.000		0.000	0.000	0.000	
Roads AAD (£)	£21,	193									1
SSSIs (km ²)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1

Policy Unit A1.5: Brodick to Clauchlands Point

	Coastal	Flooding				Accretion	n / Erosion				Wave
				20)50			2100			
Receptor Risk	200yr 200yr CC	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Max. Significant Wave Height (Hm0)	
RPs (no.)	0	0		0	0	0		0	0	0	
RPs AAD (£)	£	£0									1
NRPs (no.)	0	0		0	0	0		0	0	0	1
NRPs AAD (£)	£	0									1
A Roads (km)	0.000	0.000		0.000	0.000	0.000		0.000	0.000	0.000	<1.0m
B Roads (km)	0.000	0.000		0.000	0.000	0.000		0.000	0.000	0.000	1
Minor Roads (km)	0.000	0.000		0.000	0.000	0.000		0.000	0.000	0.000	1
Roads AAD (£)	£	0									1
SSSIs (km ²)	0.053	0.059	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1

	Su	ıbcell		P	Policy unit		
		A1			A1.1		
Lochra	nza - C	auchlands Point	Lochranza				
		Polic	y				
		Hold the	line				
		lssue	3				
A841 is at risk of coastal fl	ooding	ound Newton Road affecting resider . Fluvial, pluvial and groundwater flo . The maximum wave height during a	oding risk present also	o. No a	ssets were found to be at risk due		
Potential Actions		Technically feasible?	Potential Actions		Technically feasible?		
Seawalls	~	Will protect against flooding	Perched beaches	×	Will not protect against flooding		
Revetments	×	Will not protect against flooding	Cove	×	Will not protect against flooding		
Embankments	~	Will protect against flooding	Dune stabilisation	×	No naturally occuring dunes		
Maintenance	~	There are existing defences including seawalls, revetments and rock armour	Managed realignment	×	Will not hold the existing line		
Groynes	×	Will not protect against flooding	Nourishment	~	Potentially feasible		
Detached breakwaters	×	Will not protect against flooding	Beach drain	×	Will not protect against flooding		
	1		Additional Actions	1	Integrated flood study		

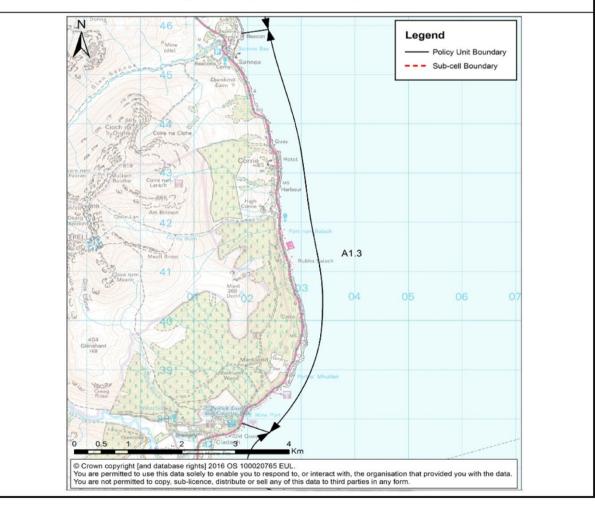
Significant flood risk from multiple sources. Recommended to carry out further local study considering all sources of flooding to



		ubcell				Policy unit A1.2	
Loches	n70 C	A1 Clauchlands Point			Loch-	A1.2 anza to Sannox	2
Lochra	112a - C		Polic		LOCH		
			No active int				
			Issu				
assets were found to I	oe at ri	sk due to coastal flood	ing or erosion be less tha		neight	during a force 8	storm was found
ential Actions		Technically feasil	ble?	Potential Actions		Technical	y feasible?
walls	×	N/A		Perched beaches	×	N/A	
etments	×	N/A		Cove	×	N/A	
pankments	×	N/A		Dune stabilisation	×	N/A	
intenance	×	N/A		Managed realignment	×	N/A	
ynes	×	N/A		Nourishment	×	N/A	
ached breakwaters	×	N/A		Beach drain	×	N/A	
dlands	×	N/A		Additional Actions	×		
			Workshop Co	onclusions			
\mathbf{A}						•	nit Boundary
						Sub-cell	Boundary
/						53	
Dubha Creagan Dubha	(b) and	Cock of Ar	ran				
	Pair	y Dell				52	
Newton	Cnoc n	an to a	ian's Care				S O
Newton The Whins	Sgrat	Torr 332	Jan Star				
Pier Loch	98	Meadhonach	Sino State	A1.2		51	
	685	95	g Ghlas	Laggan			
C. R. The L	Aughter 7	96	Cutton 97	The base of the second se		01	02
Hotel Change The L		PL AND	411 2 22	98 2		Y .	
Sert Field Study Centre	and the second second	al us Glen	Creag Ghias	98 62 Millstor	ne Coint		
Seet OF States		Ballar e	Cress Ghias eggan		nios ec	50	
Sert Field Study Centre	A A	Bailare	Cress Gh(as Cress	62 Millistor			
Serr Field Sharp Centre Marginahoglish Bhuidhe Creagan nan		Ballar e	Gress GALes Legan Fionn B	62 Millistor	ar coint	50	
Serr Pied Study Center Marginal registration B h u d h e Creagen nan Creagen nan Creagen nan Creagen nan		Bailare	Cress Ghias Leggan Fionn B	62 Millistor		50	
Serr Field Study Centre Margine registe B h u i d h e Creagan nan Safe Creagan nan Creagan		Bailare	Creed Chills Logan Fionn B	444 A44 A44 A44 A44 A44 A44 A44 A44 A44		50	
Arr Field Study Control Margnahegish B h u i d h e Creagan nan Castron Castron Sant		Ballaris Glen Ballaris Screen Date of the second se	C Deputie	62 Millistor	5/	50	
Serr Field Study Centre Marginal egish B h u i d h e Creagan nan Sarth Unite Monit Mon 490 3		Bailare	C Deputie	82 Millistor A44 heolach Cross 9 Br	in ch	50 49 Pater Poter	
Margnahegish Margnahegish B h u i d h e Cruegen nan Charach dadh unle Meel? Mor		Ballaris Glen Ballaris Screen Date of the second se	C Deputie	82 Millistor A44 heolach Cross 9 Br	5/	50	
Serr Field Study Centre Marginal-registra B h u d h e Creagan nan Castron dadh. unite Meeil Mor 496 3		Ballaris Glen Ballaris Screen Date of the second se	C Deputie	82 Millistor A44 heolach Cross 9 Br	Tore 201	50 49 Pater Poter	
Serr Field Study Centre Marginal-registra B h u r d h e Creagan nan Creagan na		Ballaris Glen Ballaris Screen Date of the second se	C Deputie	82 Millistor A44 heolach Crogan 9 Ba	Tore 201	50 49 Patien Patien 2048 2048	
Serr Pied Study Center Marginal-registration B h u d h e Creager nan Caosen dadh. unle Masil Mor 2803 Caosen dadh. unle Masil Mor 2803 Caosen dadh. Masil Mor 2803 Caosen Caosen dadh. Masil Mor 2803 Caosen dadh. Masil Mor 2803 Caosen dadh. Masil Masil Masil Masil Mor 2803 Caosen Masil Masil		Ballaris Glen Ballaris Screen Date of the second se	Country 19	82 Millistor A44 heolach Crogan 9 Ba	Tore 201	50 49 7 48 228 5rt 49 8 7 48	
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Serr Field Study Centre Morganized Study B h u d h e Creagan nan Carr Carrown dadh unite Mool? Mon 496 3 Fe Cost Serr Serr Serre Sere Serre Serre Serre Sere	inn Bhrea	Ballaria Ballaria Care Haud San Barlan Ballaria Care Haud San Barlan Bar		B2 Military	Tore 201	50 49 Patien Patien 8 220 5ert 48 5ert 8 5ert 10 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	cons PC Bason Conox Bay
Arr Piedo Study Centre Margana-registra B h u d h e Craegon non Craegon non Chorson dadh. unle Maal Mon 400 3 -488 Bhorach	unite de la constante de la co	Ballaria Ballaria Care Haud San Barlan Ballaria Care Haud San Barlan Bar		B2 Military	Tore 201	50 49 7 8 228 5 5 5 48 8 228 5 5 7 48 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	cons PC Bacon Sanox Sanox
Serr Field Study Centre Morganized Study B h ur d h e Creagan nan Creagan nan	inn Bhrea	Ballaria Ballaria Darr Haud Darr Hau		B2 Military	Tore 201	50 49 Palen 9 48 228 5er 48 8 228 5er 48 8 8 9 48 8 9 48 8 9 48 8 9 48 9 48	cons PC Bason Conox Bay
Arr Pied Study Center Magnal-registra B h u d h e Creagan nan Caosen dam unie Maail Mor 496 3 Caosen dam unie dam unie dam unie dam unie dam unie dam unie dam unie dam unie dam unie dam unie dam unie dam unie dam unie dam unie dam unie dam dam unie dam unie dam da dam d	inn Bhree	Ballaria Ballaria Darr Haud Darr Hau		B2 Military	Tore 201	50 49 7 8 228 5 5 5 48 8 228 5 5 7 48 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	cons Cons Cons Cons Cons Cons Cons Cons C
Serr Pied Study Conne Marginal registration B h u d h e Creasan nan Calorin dadh, unis Registration Bhone Bhone Bhone Bhone Bhone SBB Bhone SBB Bhone SBB Bhone SBB	inn Bhress S75	Balteria Batteria Cress Batteria Cress Cre	Ball of the second seco	B2 Military	Tore 201	50 49 7 8 228 5 5 5 48 8 228 5 5 7 48 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	cons Cons Cons Cons Cons Cons Cons Cons C

	Su	ıbcell		ŀ	Policy unit
		A1			A1.3
Lochra	nza - C	lauchlands Point		Sann	ox to Brodick
		Polic	y		
		Hold the	line		
		lssue			
The ALL THE THE PERSON NEWS AT LCC.		ing two residential properties at San	and the second s		
risk of coastal flooding. Th	e A841				coastal erosion. The maximum wave
_		height during a force 8 storm was	s found to be less than	1.0m.	
Potential Actions		Technically feasible?	Potential Actions		Technically feasible?
Seawalls	~	Will protect against flooding	Perched beaches	×	Will not protect against flooding
Revetments	×	Will not protect against flooding	Cove	×	Will not protect against flooding
Embankments	~	Will protect against flooding	Dune stabilisation	~	Potentially feasible
Maintenance	~	There are existing defences including seawalls, revetments and rock armour	Managed realignment		May consider diverting road
Groynes	×	Will not protect against flooding	Nourishment	~	Potentially feasible
Detached breakwaters	×	Will not protect against flooding	Beach drain	×	Will not protect against flooding
Headlands	×	Will not protect against flooding	Additional Actions	×	
	•	Workshop Co	nclusions		÷

Flood and erosion risk to the road. Existing defences in place so maintenance is preferred. Actions will be the responsibility of NAC.



	Su	ıbcell		P	Policy unit
		A1			A1.4
Lochra	nza - C	lauchlands Point			Brodick
		Polic			
		Hold the			
		Issue			
		e vicinity of the bowling green, with			
		The A841 is maintained by NAC. A s			
also. A landfill site to th	e soutr	of the policy unit is at risk of erosio force 8 storm was found		ion. Ir	ie maximum wave neight during a
otential Actions		Technically feasible?	Potential Actions		Technically feasible?
otential Actions		Technically leasible:	Potential Actions		Will not advance the line but may
eawalls .	~	Will protect against both flooding and erosion	Perched beaches		be used in conjunction with othe measures
Revetments		Will not protect against flooding but may provide erosion protection	Cove		Will not advance the line but may be used in conjunction with othe measures
Embankments		Will not protect against erosion but may provide flood protection	Dune stabilisation		Potentially feasible
Maintenance	•	There are existing defences including seawalls, rock armour revetments, a rock groyne and sand bags. Maintaining the existing defences will not advance the line	Managed realignment	×	Will not advance the line
Groynes		Will not advance the line but may be used in conjunction with other measures	Nourishment		May be required in conjunction with hard shoreline reinforcemer such as seawalls
Detached breakwaters		Will not advance the line but may be used in conjunction with other measures	Beach drain	×	Will not advance the line
Headlands		Will not advance the line but may be used in conjunction with other measures	Additional Actions		Remove landfill material. Wave overtopping study recommended
		Workshop Co	nclusions		
The policy agreed is hold t		Recommended to protect landfill si landfill was also suggested. Wave ov			· · · · ·
		Brewerv Cladach Home Fm Strabane Brodick	Port A1.4		

Strathwhillan

Brodick

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	Subcell			Policy unit
المعادية	A1		Brodielet	A1.5 o Clauchlands Point
Lochra	nza - Clauchlands Point	Policy	Brodick t	
		No active intervention		
		Issue		
		1990.9		
o assets have been ider		oastal flooding or erosion in this p torm was found to be less than 1.0		The maximum wave height durin
ential Actions	Technically fea	sible? Potential Action	IS	Technically feasible?
walls	× N/A	Perched beaches	s ×	N/A
retments	× N/A	Cove	×	N/A
bankments	× N/A	Dune stabilisatio	on 🗴	N/A
intenance	× N/A	Managed	×	N/A
		realignment	8.06	
oynes	× N/A	Nourishment	×	N/A
ached breakwaters	× N/A	Beach drain	×	N/A
adlands	× N/A	Additional Actio Workshop Conclusions	ons ×	
N				
4				Legend
				Policy Unit Boundary
				Sub-cell Boundary
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Destan				
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	South Corriegills			
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(\$-77- DRZ:	Clauchland			
The state	Hills	A A A		
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	Carries A	A States	Clare	hlands Point
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Chambered Standing S	stone	A manual and	S OLL	
Chambered Standing S	1 = 100 -	Kerr's Port	a ^e o Hami Isle	ilten
Standing S	Filo Clauc	hlands P	S ^o Hami Isle	iltern
Chamberto Standing S 0 0:25 0.5m	Claus	hlands P		iltan
0 0.25 0.5m	Filo Clauc	hlands		ilton

Sub-Cell A2: Clauchlands Point - Kingscross Point

RISKS

	Coastal	Flooding				Accretior	n / Erosion				Wave
				20)50			21	100		
Receptor Risk	200yr	200yr CC	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Max. Significant Wave Height (Hm0)
RPs (no.)	21	38		0	0	4		0	1	5	
RPs AAD (£)	£94,	,306									1
NRPs (no.)	7	14		0	0	0		0	0	0]
NRPs AAD (£)	£8,	501									1
A Roads (km)	0.278	0.579		0.000	0.000	0.000		0.000	0.000	0.000	<1.0m
B Roads (km)	0.000	0.000		0.000	0.000	0.000		0.000	0.000	0.000	1
Minor Roads (km)	0.733	1.218		0.000	0.000	0.128		0.000	0.000	0.210	1
Roads AAD (£)	£12,	.552									
SSSIs (km²)	0.012	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1

Policy Unit A2.1: Clauchlands Point to Lamlash

RISKS

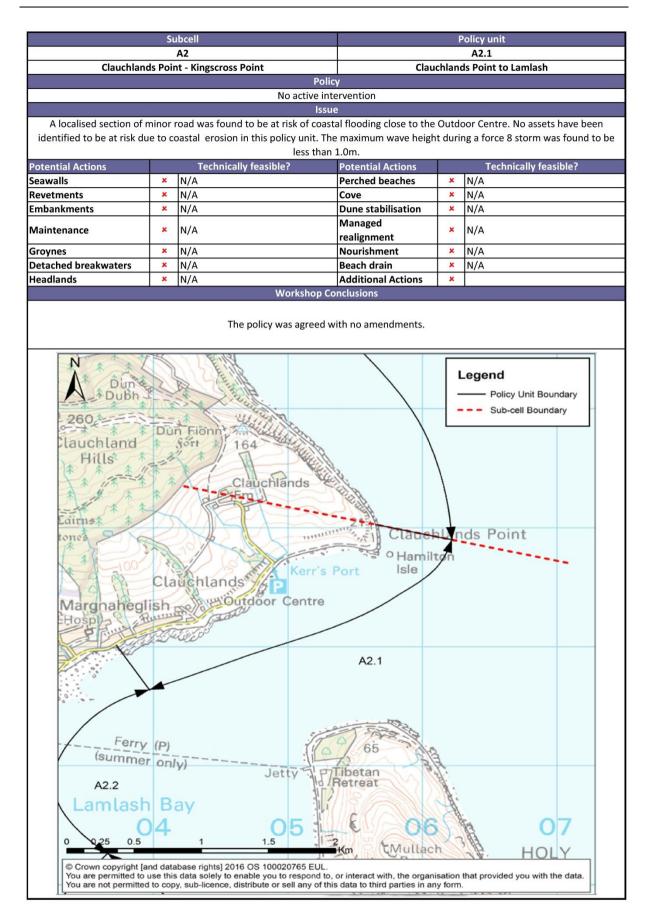
	Coastal	Flooding				Accretior	/ Erosion				Wave
				20)50			21	100		
Receptor Risk	200yr	200yr CC	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Max. Significant Wave Height (Hm0)
RPs (no.)	0	0		0	0	0		0	0	0	
RPs AAD (£)	£0										1
NRPs (no.)	0	0		0	0	0		0	0	0]
NRPs AAD (£)	£	0									1
A Roads (km)	0.000	0.000		0.000	0.000	0.000		0.000	0.000	0.000	<1.0m
B Roads (km)	0.000	0.000		0.000	0.000	0.000		0.000	0.000	0.000	1
Minor Roads (km)	0.121	0.406		0.000	0.000	0.000		0.000	0.000	0.000	1
Roads AAD (£)	£9	19									1
SSSIs (km²)	0.012	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1

Policy Unit A2.2: Lamlash

	Coastal	Flooding				Accretior	n / Erosion				Wave
				20)50	_		21	L OO		
Receptor Risk RPs (no.)	200yr	200yr CC	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Max. Significant Wave Height (Hm0)
RPs (no.)	21	38		0	0	4		0	1	5	
RPs AAD (£)	£94,	,306									1
NRPs (no.)	7	14		0	0	0		0	0	0	1
NRPs AAD (£)	£8,	501			0						1
A Roads (km)	0.278	0.579		0.000	0.000	0.000		0.000	0.000	0.000	<1.0m
B Roads (km)	0.000	0.000		0.000	0.000	0.000		0.000	0.000	0.000	1
Minor Roads (km)	0.612	0.812		0.000	0.000	0.128		0.000	0.000	0.210	1
Roads AAD (£)	£11,	.633									1
SSSIs (km²)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1

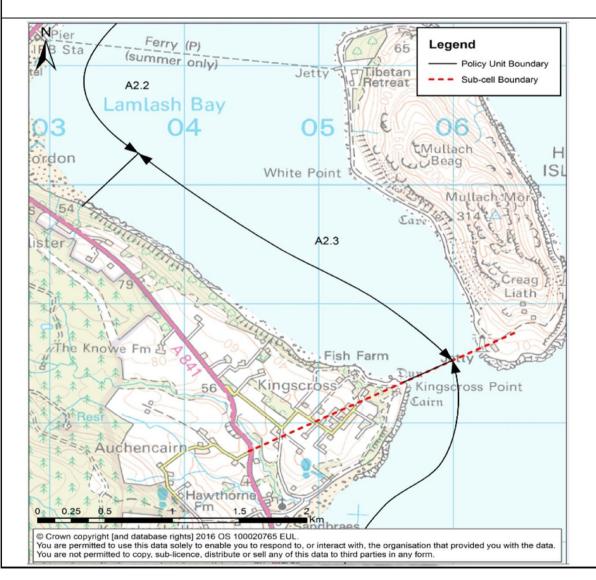
Policy Unit A2.3: Lamlash to Kingscross Point

	Coastal	Flooding				Accretior	n / Erosion				Wave
				20)50			21	L OO		
Receptor Risk	200yr	200yr CC	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Max. Significant Wave Height (Hm0)
RPs (no.)	0	0		0	0	0		0	0	0	
RPs AAD (£)	£	0									1
NRPs (no.)	0	0		0	0	0		0	0	0	1
NRPs AAD (£)	£	:0									1
A Roads (km)	0.000	0.000		0.000	0.000	0.000		0.000	0.000	0.000	<1.0m
B Roads (km)	0.000	0.000		0.000	0.000	0.000		0.000	0.000	0.000	1
Minor Roads (km)	0.000	0.000		0.000	0.000	0.000		0.000	0.000	0.000	1
Roads AAD (£)	£	.0									1
SSSIs (km²)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1



	Su	bcell		P	Policy unit
		A2			A2.2
Clauchland	s Poir	nt - Kingscross Point Police			Lamlash
		Hold the			
		Issue	2		
Cuddy Dook is at risk of co minor road at Cuddy Do erosic	oastal ok we	properties at Cuddy Dook and adjac flooding, as well as isolated sections are also found to be at risk due to coa e maximum wave height during a for	of the A841. The A841 astal erosion. SW asset ce 8 storm was found	1 is ,air ts run a	tained by NAC. Properties and the along the beach and are at risk of ess than 1.0m.
Potential Actions		Technically feasible?	Potential Actions		Technically feasible?
ieawalls	~	Will protect against both flooding and erosion	Perched beaches		Will not protect against flooding but may provide erosion protection
Revetments		Will not protect against flooding but may provide erosion protection	Cove		Will not protect against flooding but may provide erosion protection
mbankments		Will not protect against erosion but may provide flooding protection	Dune stabilisation	×	No naturally occurring dunes
Naintenance	\checkmark	There are existing defences including seawalls, revetments and rock armour	Managed realignment	×	Will not hold the existing line
Groynes		Will not protect against flooding but may provide erosion protection	Nourishment	~	Potentially feasible in isolated areas
Detached breakwaters		Will not protect against flooding but may provide erosion protection	Beach drain		Will not protect against flooding but may provide erosion protection
leadlands		Will not protect against flooding but may provide erosion protection	Additional Actions	~	FRA commissioned by NAC. Wave overtopping study recommended.
		A4 CH MS Blairbeg 8 PH PH BLAT PH C PH C PH C PH C PH C PH C PH C PH	e overtopping study re	icount Bound	ended.

	S	ubcell			Policy unit
		A2			A2.3
Clauchlan	ds Poi	nt - Kingscross Point	Lan	nlash	to Kingscross Point
		Polic	ÿ		
		No active int	ervention		
		Issu	e		
No assets have been ider	ntified	to be at risk due to coastal flooding o force 8 storm was found		unit.	The maximum wave height during a
Potential Actions		Technically feasible?	Potential Actions		Technically feasible?
Seawalls	×	N/A	Perched beaches	×	N/A
Revetments	×	N/A	Cove	×	N/A
Embankments	×	N/A	Dune stabilisation	×	N/A
Maintenance	×	N/A	Managed realignment	×	N/A
Groynes	×	N/A	Nourishment	×	N/A
Detached breakwaters	×	N/A	Beach drain	×	N/A
Headlands	×	N/A	Additional Actions	×	
		Workshop Co	onclusions		
		The policy was agreed with no amer	ndments. No active inte	ervent	ion.



Sub-Cell A3: Kingscross Point - Drumadoon Point

RISKS

	Coastal	Flooding				Accretior	n / Erosion				Wave
				20	50			21	.00		
Receptor Risk	200yr	200yr CC 34	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Max. Significant Wave Height (Hm0)
RPs (no.)	19	34		0	0	0		0	0	0	
RPs AAD (£)	£60,	,206			j (1
NRPs (no.)	4	7		0	0	0		0	0	0	1
NRPs AAD (£)	£2,	994									1
A Roads (km)	0.960	1.269		0.000	0.000	0.000		0.000	0.000	0.000	<1.0m
B Roads (km)	0.000	0.000		0.000	0.000	0.000		0.000	0.000	0.000	1
Minor Roads (km)	0.311	0.470		0.000	0.000	0.000		0.000	0.000	0.000	1
Roads AAD (£)	£32,	,014									
SSSIs (km²)	0.221	0.254	0.002	0.000	0.000	0.000	0.002	0.000	0.000	0.000	1

Policy Unit A3.1: Whiting Bay

RISKS

	Coastal	Flooding				Accretior	n / Erosion				Wave
				20)50			2:	100		
Receptor Risk RPs (no.)	200yr	200yr CC	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Max. Significant Wave Height (Hm0)
RPs (no.)	18	23		0	0	0		0	0	0	
RPs AAD (£)	£59	,420						_			
NRPs (no.)	4	6		0	0	0		0	0	0	1
NRPs AAD (£)	£2,	994									1
A Roads (km)	0.929	1.184		0.000	0.000	0.000		0.000	0.000	0.000	<1.0m
B Roads (km)	0.000	0.000		0.000	0.000	0.000		0.000	0.000	0.000	1
Minor Roads (km)	0.021	0.023		0.000	0.000	0.000		0.000	0.000	0.000	1
Roads AAD (£)	£28,	,416									1
SSSIs (km²)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1

Policy Unit A3.2: Largymore to Drumadoon Point

	Coastal	Flooding				Accretior	n / Erosion				Wave
				20)50			21	100	_	
Receptor Risk	200yr	200yr CC	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Max. Significant Wave Height (Hm0)
RPs (no.)	1	11		0	0	0		0	0	0	
RPs AAD (£)	£7	86									
NRPs (no.)	0	1		0	0	0		0	0	0	1
NRPs AAD (£)	£	0									1
A Roads (km)	0.031	0.086		0.000	0.000	0.000		0.000	0.000	0.000	<1.0m
B Roads (km)	0.000	0.000		0.000	0.000	0.000		0.000	0.000	0.000	1
Minor Roads (km)	0.290	0.447		0.000	0.000	0.000		0.000	0.000	0.000	
Roads AAD (£)	£3,	598									1
SSSIs (km ²)	0.221	0.254	0.002	0.000	0.000	0.000	0.002	0.000	0.000	0.000	1

	Sul	bcell		P	Policy unit
	-	A3			A3.1
Kingscross	Point -	- Drumadoon Point		w	/hiting Bay
		Poli Hold th			
		lssu			
-	•	• • • • • • • • • • • • • • • • • • •	e to coastal erosion in th	his poli	t risk of coastal flooding. The A841 is icy unit. The maximum wave height
Potential Actions		Technically feasible?	Potential Actions	1	Technically feasible?
Seawalls	~	Will protect against flooding	Perched beaches	×	Will not protect against flooding
Revetments	×	Will not protect against flooding	Cove	×	Will not protect against flooding
Embankments		Will protect against flooding	Dune stabilisation	×	No naturally occuring dunes
Maintenance		There are existing defences including seawalls, revetments and rock armour	d realignment	×	Will not hold the existing line
Groynes	×	Will not protect against flooding	Nourishment	~	Potentially feasible
Detached breakwaters	×	Will not protect against flooding	Beach drain	×	Will not protect against flooding
Headlands	×	Will not protect against flooding	Additional Actions	~	Wave overtopping study recommended
		Workshop C	onclusions		
Lege	nd			Liat	Pillar NRd
* * * ********************************	Sub-cell E	Sandbrae North scadale	A3.1 Whiting Bay	Point	

Kingsoross	A3	s Drumadoon I	Point		more	A3.2 to Drumadoon Point
Kingscross	Point - D	Jrumadoon I		Policy	ymore	to Drumadoon Point
				re intervention		
				Issue		
			-			at Largymore and minor road
						e been identified to be at risk
coastal erosion in	this polic	cy unit. The r	maximum wave i	neight during a force 8 stor	m was	found to be less than 1.0m.
tial Actions		Technicall	ly feasible?	Potential Actions		Technically feasible?
alls	× N	/A		Perched beaches	×	N/A
ments	× N	/A		Cove	×	N/A
nkments	× N,	/A		Dune stabilisation	×	N/A
enance	×N	/A		Managed	×	N/A
		101. 102.		realignment		
nes		/A		Nourishment	×	N/A
hed breakwaters		/A		Beach drain	×	N/A
ands	× N,	/A		Additional Actions	×	
					Sec. Sec.	the main the second the
Legend	uit Bounda	any	Anne are a		697	NY TO AND
Policy U	nit Bounda	- 15 V				A2.1
Policy U	nit Bounda Boundary	- 15 V				A2.1
Policy U		- 15 V				A2.1 A2.2
Policy U		- 15 V				A2.3
Policy U		- 15 V				A2.3
Policy U		- 15 V				A2.3
Policy U		- 15 V				A2.3
Policy U		- 15 V				A2.3 A3.1
Policy U		- 15 V				A2.3 A2.3 A3.1
Policy U		- 15 V				A2.3 A2.3 A3.1
Policy U		- 15 V				A2.3 A2.3 A3.1
Policy U		- 15 V				A2.3 A2.3 3.1
Policy U		- 15 V				A2.3 A2.3 A3.1
Policy U	Boundary	- 15 V				A2.3 A3.1
Policy U		- 15 V				
Policy U	Boundary					
Policy U	Boundary					
Policy U	Boundary					
Policy U	Boundary					
Policy U	Boundary					
Policy U	Boundary					
Policy U	Boundary					
Policy U	Boundary					
Policy U	Boundary					
Policy U	Boundary					
Policy U	Boundary					
Policy U	Boundary					

Sub-Cell A4: Drumadoon Point - Lochranza

RISKS

	Coastal	Flooding				Accretion	n / Erosion				Wave
				20)50			21	L OO		
Receptor Risk	200yr	200yr CC	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Max. Significant Wave Height (Hm0)
RPs (no.)	1	1		0	0	0		0	0	0	
RPs AAD (£)	£3,	428									1
NRPs (no.)	0	0		0	0	1		0	0	1	1
NRPs AAD (£)	£	0									1
A Roads (km)	0.000	0.000		0.000	0.000	0.000		0.000	0.000	0.000	<1.0m
B Roads (km)	0.000	0.000		0.000	0.000	0.000		0.000	0.000	0.000	1
Minor Roads (km)	2.329	5.300		0.000	0.000	0.219		0.000	0.000	0.235	1
Roads AAD (£)	£20,	,227									1
SSSIs (km²)	0.055	0.067	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1

Policy Unit A4.1: Drumadoon Point to Tormore

RISKS

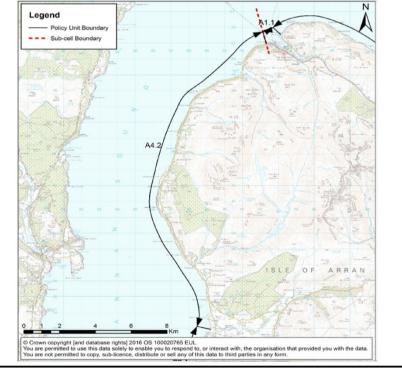
	Coastal	Flooding		Wave							
Receptor Risk			2050								
	200yr	200yr CC	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Max. Significant Wave Height (Hm0)
RPs (no.)	0	0		0	0	0		0	0	0	
RPs AAD (£)	£0										1
NRPs (no.)	0	0		0	0	0		0	0	0]
NRPs AAD (£)	£0										1
A Roads (km)	0.000	0.000		0.000	0.000	0.000		0.000	0.000	0.000	<1.0m
B Roads (km)	0.000	0.000		0.000	0.000	0.000		0.000	0.000	0.000	1
Minor Roads (km)	0.000	0.000		0.000	0.000	0.000		0.000	0.000	0.000	1
Roads AAD (£)	£0										1
SSSIs (km ²)	0.055	0.067	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1

Policy Unit A4.2: Machrie Bay to Lochranza

	Coastal	Flooding		Wave							
Receptor Risk				20)50						
	200yr	200yr CC	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Max. Significant Wave Height (Hm0)
RPs (no.)	1	1		0	0	0		0	0	0	
RPs AAD (£)	£3,428										1
NRPs (no.)	0	0		0	0	1		0	0	1	1
NRPs AAD (£)	£0										1
A Roads (km)	0.000	0.000		0.000	0.000	0.000		0.000	0.000	0.000	<1.0m
B Roads (km)	0.000	0.000		0.000	0.000	0.000		0.000	0.000	0.000	1
Minor Roads (km)	2.329	5.300		0.000	0.000	0.219		0.000	0.000	0.235	1
Roads AAD (£)	£20,227										1
SSSIs (km²)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1

	1000	bcell					Policy unit				
		A4			A4.1						
Druma	doon P	oint - Lo	ochranza			mado	on Point to Tormore				
				Pol							
				No active in							
				lss	Je						
assets have been iden	tified t	o be at			or erosion in this policy d to be less than 1.0m.	vunit.	The maximum wave height during				
ential Actions		Тес	hnically feasi	ble?	Potential Actions		Technically feasible?				
walls	×	N/A			Perched beaches	×	N/A				
etments	×	N/A			Cove	×	N/A				
bankments	×	N/A			Dune stabilisation	×	N/A				
intenance	×	N/A			Managed	×	N/A				
					realignment		100 · 100				
ynes	×	N/A			Nourishment	×	N/A				
ached breakwaters	×	N/A			Beach drain	×	N/A				
dlands	×	N/A			Additional Actions	×					
				Workshop (onclusions						
				Lefos	n Ruadha		As Cairn thut of Stone Chambered : Chambered : Chambered :				
				King's C	An Cumhann 137 Torr Bugh An Cumhann 137 Torr bu		(rems of) 32 ^{thut} Crochandoon But Circles P t Chanthered Cairn (rems of)				
86		8	A4.1	88 Cleiteadh Sgarbh	Still Star	Ĩ	akin Fm				
			Drumadoo		But Circles	loon &	Hotel Meml Feorlin Blackwatertoot				
	'				Pumadoon	lotel	South Feorline				
0 0.25 0.5	1	1.	5 2 Km		Ray Eilean N	lòr ;	The second				

	Su	bcell		P	Policy unit			
		A4	A4.2					
Druma	doon P	oint - Lochranza	Machrie Bay to Lochranza					
		Polic	У					
		Hold the	line					
		Issue	2					
flooding at Machrie Bay, D	Dougari		Bay. One NRP and a see ximum wave height du	ction c	re also found to be at risk of coastal of the A841 were also found to be at force 8 storm was found to be less			
Potential Actions		Technically feasible?	Potential Actions		Technically feasible?			
Seawalls	~	Will protect against both flooding and erosion	Perched beaches		Will not protect against flooding but may provide erosion protection			
Revetments		Will not protect against flooding but may provide erosion protection	Cove		Will not protect against flooding but may provide erosion protection			
Embankments		Will not protect against erosion but may provide flooding protection	Dune stabilisation	~	Potentially feasible in isolated areas			
Maintenance	~	There are existing defences including seawalls and rock armour revetments	Managed realignment		May consider diverting road			
Groynes		Will not protect against flooding but may provide erosion protection	Nourishment	~	Potentially feasible in isolated areas			
Detached breakwaters		Will not protect against flooding but may provide erosion protection	Beach drain		Will not protect against flooding but may provide erosion protection			
Headlands	eadlands Will not protect against flooding but may provide erosion protection							
		Workshop Co	nclusions					
Policy unit boundary cha	nged to	o include northern section of road in existing defences. Actions will b						
l í		and the second sec	/		N			



Sub-Cell Great Cumbrae

RISKS

	Coastal Floodir					Accretion	/ Erosion				Wave
Receptor Risk		200yr CC	2050								
	200yr		Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Accretion	Erosion	Erosion Influence (10m)	Erosion Vicinity (60m)	Max. Significant Wave Height (Hm0)
RPs (no.)	4	75		0	0	0		0	0	0	
RPs AAD (£)	£4,121										1
NRPs (no.)	5	10		0	0	0		0	0	0	1
NRPs AAD (£)	£3,4	412									1
A Roads (km)	0.000	0.000		0.000	0.000	0.000		0.000	0.000	0.000	1.0-1.5m
B Roads (km)	4.560	6.044		0.000	0.000	0.000		0.000	0.000	0.000	1
Minor Roads (km)	0.000	0.000		0.000	0.000	0.000		0.000	0.000	0.000	1
Roads AAD (£)	£73,143										1
SSSIs (km²)	0.048	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1

Policy Unit Great Cumbrae is the only policy unit within this sub-cell, therefore the policy unit risk values are equal to the sub-cell risk values.

Subcell Policy unit								
	Great	Cumbrae		Gre	eat Cumbrae			
		Policy	V					
		Hold the						
		lssue						
are also at risk due to co	oastal 1	operties at Quayhead, Millport and a flooding. No assets have been identi um wave height during a force 8 stor	fied to be at risk due to	o coast	tal erosion in this policy unit. The			
Potential Actions		Technically feasible?	Potential Actions		Technically feasible?			
Seawalls	~	Will protect against flooding	Perched beaches	×	Will not protect against flooding			
Revetments	×	Will not protect against flooding	Cove	×	Will not protect against flooding			
Embankments	~	Will protect against flooding There are existing defences	Dune stabilisation	×	No naturally occuring dunes			
Maintenance	~	including seawalls, revetments and rock armour	Managed realignment		May consider diverting road			
Groynes	×	Will not protect against flooding	Nourishment	~	Potentially feasible			
Detached breakwaters	×	Will not protect against flooding	Beach drain	×	Will not protect against flooding			
Headlands	×	Will not protect against flooding	Additional Actions	×				
		Workshop Co	nclusions	1				
		ort. Policy changed to hold the line f defences. Actions will be the resp			-			
	Great C Gf		6b2.1	IFE 2 Long 2 ARGS Control Prevent	And Control of Control			