

Policy Development and Multi-variate Assessment

Government of Jersey

27 June 2019

Quality information

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Table of Contents

1.	Introduction	
2.	Policy Options	
3.	Option Appraisal Process	4
4.	Multi-variate Assessment Tables	7
Figu	ures	
Figure	re 1-1: Jersey Coastline divided into Coastal Management Areas and Coastal Management	Units2
Tab	ples	
	e 3-1: Option Appraisal Assessment Criteria	
	e 4-1: Multi-variate Option Appraisal for CMU 1.1: Noirmont Common	
	e 4-2: Multi-variate Option Appraisal for CMU 1.2: Belcroute Bay	
	e 4-3: Multi-variate Option Appraisal for CMU 1.3: La Housse	
	e 4-4: Multi-variate Option Appraisal for CMU 1.4: St Aubin's Harbour	
	e 4-5: Multi-variate Option Appraisal for CMU 1.5: St Aubin's Bay	
	e 4-6: Multi-variate Option Appraisal for CMU 1.6: St Helier	
	e 4-7: Multi-variate Option Appraisal for CMU 1.7: La Collette	
	e 4-8: Multi-variate Option Appraisal for CMU 1.8: Havre Des Pas	
	e 4-9: Multi-variate Option Appraisal for CMU 1.9: La Greve D'Azettee 4-10: Multi-variate Option Appraisal for CMU 1.10: Le Hocq / Pontac	
	e 4-11:Multi-variate Option Appraisal for CMU 2.1: Royal Bay of Grouville	
	e 4-12: Multi-variate Option Appraisal for CMU 2.2: Gorey Harbour	
	e 4-13: Multi-variate Option Appraisal for CMU 3.1: La Route de la Cote	
	e 4-14: Multi-variate Option Appraisal for CMU 3.2: Archirondel Tower	
	e 4-15: Multi-variate Option Appraisal for CMU 3.3: St Catherine's Bay	
	e 4-16: Multi-variate Option Appraisal for CMU 3.4 La Coupe	
	e 4-17: Multi-variate Option Appraisal for CMU 4.1 La Coupe to Rozel Bay	
	e 4-18: Multi-variate Option Appraisal for CMU 4.2: Rozel Bay	
	e 4-19: Multi-variate Option Appraisal for CMU 4.3: Le Catel	
	e 4-20: Multi-variate Option Appraisal for CMU 4.4: Bouley Bay	
Table	e 4-21: Multi-variate Option Appraisal for CMU 4.5: Egypt	28
	e 4-22: Multi-variate Option Appraisal for CMU 4.6: Bonne Nuit	
Table	e 4-23: Multi-variate Option Appraisal for CMU 4.7: La Perruque	30
Table	e 4-24: Multi-variate Option Appraisal for CMU 4.8: Ronez Quarry	31
Table	e 4-25: Multi-variate Option Appraisal for CMU 4.9: Crabbé	32
	e 4-26: Multi-variate Option Appraisal for CMU 4.10: Greve de Lecq	
	e 4-27: Multi-variate Option Appraisal for CMU 4.11: Plemont	
	e 4-28: Multi-variate Option Appraisal for CMU 5.1: St Ouen's Bay	
	e 4-29: Multi-variate Option Appraisal for CMU 5.2: Petit Port	
	e 4-30: Multi-variate Option Appraisal for CMU 6.1: Gorselands	
	e 4-31: Multi-variate Option Appraisal for CMU 6.2: Les Creux	
	e 4-32: Multi-variate Option Appraisal for CMU 6.3: St Brelade's Bay	
	e 4-33: Multi-variate Option Appraisal for CMU 6.4: Ouaisne Bay	
	e 4-34: Multi-variate Option Appraisal for CMU 6.5: La Cotte de St Brelade	
	e 4-35: Multi-variate Option Appraisal for CMU 6.6: Portelet Common	
rable	e 4-36: Multi-variate Option Appraisal for CMU 6.7: Portelet Beach	43

1. Introduction

AECOM has been commissioned to develop a Shoreline Management Plan (SMP) for Jersey by the Government of Jersey, to provide a long-term assessment of the risks associated with flooding and erosion from coastal sources. As part of this SMP, the potential policy options which define the management intent for the coastline for the next 100 years, up to 2120, have been assessed against defined criteria to guide the identification of the preferred policies for each section of the Island's coastline.

Four policy options have been assessed: No Active Intervention, Maintain the Defence Line, Adaptive Management and Advance the Line. Each of these policy options has been assessed for each of the 36 Coastal Management Units (CMUs) presented in Figure 1-1 to select a policy option for each which provides robust and sustainable management at a local level.

The policy options have been assessed against a set of 21 objectives within four themes of defence, community, environment and economy, which aligns with the themes of Future Jersey – the Island's first long term community vision. These objectives also support the objectives of the Common Strategic Policy and the Island Plan, thus helping to meet the 10 overarching objectives for the SMP set by the Government of Jersey.

As part of this option appraisal process, the policy options have been assessed within multi-variate assessment tables for each CMU, presented in Section 4; the policy options which have the greatest overall score against the criteria have been selected as the preferred policy options.

This appendix provides the multi-variate assessment tables used in the option appraisal process, and should be considered in the context of the main SMP.

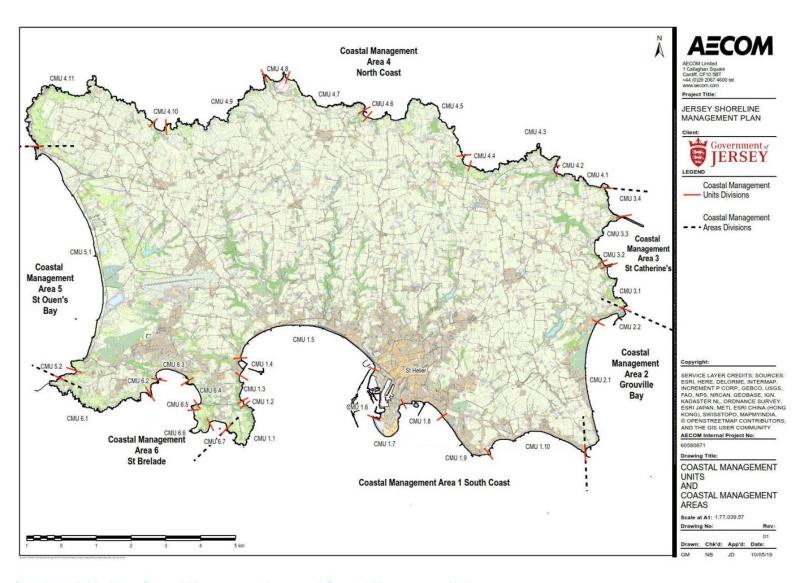


Figure 1-1: Jersey Coastline divided into Coastal Management Areas and Coastal Management Units

2. Policy Options

The policy development for the SMP has followed a consistent option appraisal method to determine the preferred policy option for each CMU. This considered the relative merits and appropriateness of existing and future defence policies and defence options for different sections of the island using an unweighted, consistent, and systematic scoring routine.

Four management policies have been considered for implementation in different areas of the Jersey coastline within the SMP. The physical structure of the coastline, the risk of flooding and coastal erosion, and land use of the island all influence which management policies can be implemented.

2.1 No Active Intervention

Under the 'No Active Intervention' policy, there will be no investment by the Government of Jersey in coastal defences or maintenance work. Unprotected shorelines will naturally evolve from their current state without intervention. This policy will generally be applied to natural areas of the coastline which are currently undefended, such as where sediments from cliffs are allowed to erode to feed beaches or to allow beach and dune systems to naturally adjust to changing conditions of climate change. The implementation and maintenance of private defences by third parties may be permitted within certain coastal management units according to the level of flooding and erosion risk, and subject to prevailing Jersey laws and regulations.

2.2 Maintain the Defence Line

Under the 'Maintain the Defence Line' policy, existing coastal defences are maintained. The level of flood protection may decrease over time as flood risk increases due to the changing coastal processes and impacts of climate change. This policy will generally be applied where the existing defences provide a reasonable standard of flood protection or prevent erosion.

2.3 Adaptive Management

Under the 'Adaptive Management' policy, coastal flood and erosion risk will be proactively managed. The policy will be delivered through various management schemes / initiatives depending on the level of risk and the circumstances. This could include improving the standard of flood protection for an existing sea defence, constructing new defences, raising awareness of local flood risk or recommending property level flood protection.

For areas of the coastline where flooding and coastal erosion is predicted to cause minimal economic damage to assets, but where there is still a residual risk to the community, there is an opportunity for a considered risk approach to management. For example, community awareness schemes rather than hard defences could be implemented as a form of adaptive management in the first instance. The risks of this measured approach would be considered carefully to avoid detriment to the community in the short term. This policy could be applied to areas of Jersey where there is sufficient risk of flooding or coastal erosion that cannot be prevented by maintaining the defences to the current standard of protection, and where it is economically unfavourable to construct new defences with a higher standard of protection. It may also be implemented in areas where there are currently no coastal defences, and where the risk of flooding and coastal erosion is predicted to cause damage to the community, environment or economy at some stage in the future.

2.4 Advance the Line

Under the 'Advance the Line' policy, new sea defences are built seaward of existing defences. This policy will only be implemented in areas where there is a significant risk of coastal flooding or erosion, or where it will deliver additional benefits for the community, environment and economy, such as creating a new amenity space. This policy is distinguished from 'Adaptive Management' as a standalone policy option to make the type of adaptation clear.

3. Option Appraisal Process

The scoring of each policy option is completed on a 3 point (0, 1, 2) basis, with 0 points indicating that the policy option would not support the objective and may be detrimental, and is given a 'red' classification. A 1 point score is equivalent to an 'amber' classification and 2 points indicates the policy option would have a positive impact on the objective, given a 'green' classification.

3.1 Government of Jersey Objectives

The criteria have been defined in line with the following objectives developed by the Government of Jersey:

- 1. To protect public health and safety; and to help reduce income inequality and social exclusion;
- 2. To support a pattern of development which promotes economic, social and environmental sustainability, whilst minimising vulnerability to the effects of climate change;
- 3. To protect and enable the maintenance and enhancement of a sustainable, vibrant and diverse economy;
- 4. To protect the Town of St. Helier, as the island's principal urban centre, enabling the enhancement of its environment as a place to live, work and visit;
- 5. To protect and enhance the quality, character, diversity and distinctiveness of the island's townscape, landscape, coastline and seascape;
- 6. To protect and enhance biodiversity, and to maintain and enhance the island's terrestrial and marine habitats and ecosystems;
- 7. To protect and enhance the island's heritage assets;
- 8. To support and enable access to the coast, for recreation, tourism and other economic activity, and enabling travel to, from, in and around Jersey; and
- 9. To protect the island's water and other natural resources, including surface and groundwater quality.

3.2 Thematic Objectives

The objectives have been incorporated into four core themes of defence, community, environment and economy:

- 1. The Defence objectives reflect the engineering of coastal defences, to assess the ability of the policy option to provide defence against flooding and coastal erosion, and feasibility of the policy option with regards to technical implementation, cost and maintenance.
- The Community objectives reflect the value of the coastline to the community and stakeholders, in terms of services provided by the coastal infrastructure, to assess the ability of the policy option to maintain access to coastal services.
- The Environment objectives reflect the importance of the natural environment of Jersey, to assess the impact
 of the policy options on natural environmental and heritage designations, as well as the landscape character
 of Jersey and the provision of natural resources.
- 4. The Economy objectives reflect the potential for improvements to the business environment of Jersey. They consider the potential of the policy options to provide opportunities for businesses to prosper and generate economic growth and support land allocation and residential and commercial development on the Island.

The objectives and assessment criteria are defined in Table 3-1. The scores for each objective are added together within each of the four core themes. Each core theme has an equal weighting to remove bias where there is an unequal number of objectives in each theme. The scores from each theme are added together, and the policy option with the highest overall score has been selected as the preferred policy option.

Table 3-1: Option Appraisal Assessment Criteria

Key Theme	Objective	Assessment Criteria
	Erosion Risk	Red – Increases erosion risk or results in significant erosion risk, failing to protecting island's coastline or minimise vulnerability to effects of climate change Amber – Partially reduces erosion risk or results in minor erosion risk Green – Potential to significantly reduce erosion risk or results in no erosion risk
	Residual Flood Risk / Failure	Red – Significant risk of failure or residual damage to property/landscape, resulting in island no better protected against effects of climate change Amber – Some residual failure/damage risk remains Green – No significant risk of failure or residual damage
Defence	Relative cost	Red – Initial implementation of this option is likely to be high cost compared to other options considered Amber – Likely to be average cost compared to other options considered Green – Likely to be low cost compared to other options considered
	Maintenance	Red – This option will require a significant level of ongoing maintenance Amber – Some scheduled maintenance required Green – Maintenance free / minimal maintenance
	Technical Feasibility	Red – Option is technically very challenging or difficult to implement/construct Amber – Option presents some technical challenges to implement/construct Green – No significant technical challenges to implement/construct
	Community acceptance	Red – Potential for major objections or goes against feedback received from parishes, churches, community groups, the third sector, volunteers, and businesses. Amber – Likely to be support for and against or meets some feedback
		received but not all Green – Helps achieve majority community needs/addresses main concerns
	Stakeholder objectives/ consenting	Red – Potential for major objections from statutory consultees or unlikely to gain consent Amber – Likely to be support for and against or meets some feedback received but not all Green – Helps achieve majority stakeholder needs/addresses main concerns
	Social Responsibility	and likely to receive consent Red – Reduced protection to socially vulnerable groups Amber – No change in protection for socially vulnerable groups Green – Improved protection for socially vulnerable groups
Community	Coastal access	Red – Reduces access to the coast for recreation, tourism and other economic activity Amber – Retains existing access/ no impact on coastal access Green – Enables and improves access to the coast for recreation, tourism and other economic activity
	Travel infrastructure	Red – Potentially detrimental impact on transport infrastructure to, from, in and around Jersey Amber – Some identified transport constraint/changes must be made to the existing transport infrastructure Green – No adverse effects, or potentially beneficial effects on travel infrastructure in the area, including improvements to active travel routes (such as cycle network)
	Health and wellbeing impact	Red – Potential for significant impact on activities considered beneficial for health and wellbeing of the local community Amber – No significant impact on health and wellbeing of local community Green – Potential to beneficially impact health and wellbeing of local community

Key Theme	Objective	Assessment Criteria
	Ecology and Geology	Red – Potentially detrimental impact on biodiversity strategy, or protected sites on the island
	Impacts	Amber – Maintains protection for flora and fauna and protected sites
		Green – Potential to protect and enhance flora and fauna identified in biodiversity strategy, and protected sites on the island
	Heritage Impacts	Red – Potentially detrimental effect on heritage sites, including buildings, structures and places and archaeology or coastal activities
		Amber – Potentially adverse effects on heritage sites, including buildings, structures and places and archaeology and coastal activities Green – Potentially beneficial to provision of culture and heritage on the island
	Landscape Impact	Red – Potentially detrimental on townscape, landscape, coastline, seascape and countryside character
	puot	Amber – Identified minimal landscape constraint or no difference to townscape, landscape, coastline, seascape and countryside character Green – Potentially beneficial effects on townscape, landscape, coastline, seascape and countryside character
Facility	Coastal Processes	Red – Potential for significant impacts to coastal processes baseline and the natural environment, affecting marine habitats and ecosystems
Environment	Impacts	Amber – No significant changes to coastal processes baseline or further impact on the natural environment
		Green – Potential to beneficially impact coastal processes and the natural environment
	Water quality	Red – Potential for significant magnitude impacts to water quality of coastal waters, surface water, groundwater and water supply Amber – No significant changes to water quality baseline
		Green – Potential to beneficially impact water quality
	Natural Resources	Red – Potential for significant impact on provision of natural resources on the Island
		Amber – No significant changes to provision of natural resources baseline Green – Potential to beneficially impact provision of natural resources
,	Carbon Emissions	Red – Produces high volume of carbon emissions compared to other options considered
	LIIII33IOII3	Amber – Likely to produce average carbon emissions compared to other options considered
		Green – Produces lower volume of carbon emissions compared to other options considered, or encourages generation of renewable energy
	Added Value and	Red – Little potential for attracting contributions/supporting other plans and programmes
	opportunity	Amber – Could secure a contribution/ support other plans and programmes
		Green – High potential to secure contributions / support other plans and programmes.
	Business environment	Red – Little potential for broader outcomes and business opportunities in the urban environment, particularly in St. Helier
Economy		Amber – Could facilitate broader outcomes and business opportunities in the urban environment, particularly in St. Helier
		Green – High potential to deliver broader outcomes and business opportunities in the urban environment, particularly in St. Helier.
	Other Infrastructure	Red – Potentially detrimental impact on utilities, agriculture or fishing infrastructure Amber – No adverse impact on other infrastructure
		Green – Potentially beneficial impact on other infrastructure

4. Multi-variate Assessment Tables

The multi-variate appraisal has assessed the policy options against the 21 categories in the four themes detailed in Section 3. Each table provides a score for each criterion from 0 to 2, denoted by the colours red, amber and green, a score for each theme and an overall score for each policy option.

The scoring was undertaken by the project team, and was collaboratively reviewed and ratified by the Government of Jersey. This approach, alongside the scoring rules in Table 3-1, helped to ensure that the scoring was as objective and consistent as possible. The project team reviewed and utilised a wide range of relevant data to provide a detailed level of understanding of the coastline and the issues, constraints and opportunities, such as:

- SMP supporting data; the baseline process understanding (Appendix B) of the SMP was used to inform the assessment of the impacts of each policy option on flooding and coastal erosion risk to Jersey, and provide a baseline understanding of the coastal processes.
- Other supporting data and assessments; key environmental strategies and assessments previously undertaken by the Government of Jersey which provide a baseline understanding of a range of environmental receptors at the coastline.
- Island Plan, Future Jersey and Common Strategic Priorities; the objectives of these three key strategic planning
 frameworks were used to assess how each of the policy options could influence planning policies to support
 community, environment and economic objectives.
- Jersey Biodiversity Strategy, Natural Sites and Historic Environments database; the locations of ecological and geological SSIs and listed buildings and places, were used to assess the policy options against the criteria for ecology, geology, heritage and landscape.
- Visual site inspections; site walkovers were carried out to improve the project teams' understanding and appreciation of the coastline.

The multi-variate assessment tables are presented for each CMU in Table 4-1 to Table 4-36. The policy option with the greatest overall score has been selected as the preferred policy option, and is highlighted and emboldened in the tables.

The preferred policy options have then been adopted, and the detail of each expanded upon on in the Main SMP for consultation.

CMU1.1: No	oirmont Common			D	efe	nce					Cor	nmı	unit	у				E	nvir	onr	nen	t		Е	con	omy	
Epoch	Policy Option	Erosion Risk	Flood Risk	Relative Cost	Maintenance	Technical Feasibility	Defence Score %	Community Acceptance	Stakeholder Objectives	Social Responsibility	Coastal Access	Travel Infrastructure	Health and Wellbeing	Community Score %	Ecology and Geology	Heritage	Landscape	Coastal Processes	Water Quality	Natural Resources	Carbon Emissions	Environment Score %	Opportunity	Business Environment	Other Infrastructure	Economy Score %	Overall Score %
Epoch 1	No Active Intervention						25.00%							18.75%				<u></u>				14.29%	0	9		8.33%	66.37%
Present Day	Adaptive Management			(<u> </u>	12.50%	<u> </u>	((()	6.25%	()	1		(0	0	()	5.36%	()	(0	4.17%	28.27%
(2020-2040)	Advance the Line						10.00%							6.25%								3.57%				0.00%	19.82%
Epoch 2	No Active Intervention	0		0			25.00%							18.75%	0							14.29%	0	3		8.33%	66.37%
Lpocii 2	Adaptive Management			(<u> </u>	12.50%	<u> </u>	((((<u> </u>	((5.36%	()	(4.17%	28.27%
(2040-2070)	Advance the Line				<u> </u>		12.50%			<u> </u>				6.25%					<u></u>	(3.57%	()			0.00%	22.32%
Epoch 3	No Active Intervention	0					25.00%	0						18.75%				<u></u>		<u></u>		14.29%	0	9		8.33%	66.37%
Long Term	Adaptive Management					()	12.50%		()								()	()				5.36%				4.17%	28.27%
(2070-2120)	Advance the Line						12.50%			<u></u>				6.25%						(3.57%				0.00%	22.32%

Table 4-1: Multi-variate Option Assessment for CMU 1.1: Noirmont Common

AECOM 8 Prepared for: Government of Jersey

CMU1.	2: Belcroute Bay			D	efe	nce					Co	omn	nuni	ity				E	nvir	ron	men	t			Ec	onomy	
Epoch	Policy Option	Erosion Risk	Floood Risk	Relative Cost	Maintenance	Technical Feasibility	Defence Score %	Community Acceptance	Stakeholder Objectives	Social Responsibility	Coastal Access	Travel Infrastructure	Health and Wellbeing	Community Score %	Ecology and Geology	Heritage	Landscape	Coastal Processes	Water Quality	Natural Resources	Carbon Emissions	Environment Score %	Opportunity	Business Environment	Other Infrastructure	Economy Score %	Overall Score %
	No Active Intervention	0	0	0	0	0	22.50%	9	9	0	0		9	8.33%	0	0	0	0	0	0	0	16.07%	9	()	0	4.17%	51.07%
Epoch 1 Present Day														18.75%								16.07%				8.33%	60.65%
(2020-2040)	Adaptive Management						12.50%							6.25%			8					8.93%				4.17%	31.85%
,	Advance the Line						10.00%							6.25%								7.14%				4.17%	27.56%
	No Active Intervention					0	22.50%						<u> </u>	8.33%						<u> </u>	0	16.07%		9	0	4.17%	51.07%
Epoch 2							17.50%							18.75%	_							16.07%				8.33%	60.65%
Medium Term	Adaptive Management					0				0	_			6.25%								8.93%	0		0	4.17%	31.85%
(2040-2070)						0		_		0				6.25%			_	_	_	_		7.14%	_	_	0	4.17%	30.06%
																							_	_			
Epoch 3	No Active Intervention	0									0	_		8.33%					0			16.07%	_		0	4.17%	51.07%
Long Term							17.50%							18.75%	0				0	0	0	16.07%		_		8.33%	60.65%
(2070-2120)					_	<u></u>		<u> </u>	0	0		0		6.25%			<u> </u>	<u> </u>	0			8.93%	<u></u>	<u> </u>	0	4.17%	31.85%
	Advance the Line						12.50%							6.25%								7.14%				4.17%	30.06%

Table 4-2: Multi-variate Option Assessment for CMU 1.2: Belcroute Bay

AECOM 9 Prepared for: Government of Jersey

CMU1	.3: La Housse			De	efen	ce					Co	omn	nunit	у		-		E	Envi	onr	nent				Ec	onomy	
Epoch	Policy Option	Erosion Risk	Floood Risk	Relative Cost	Maintenance	_	Defence Score %	Community Acceptance	Stakeholder Objectives	Social Responsibility	Coastal Access	Travel Infrastructure	Health and Wellbeing	Community Score %	Ecology and Geology	Heritage	Landscape	Coastal Processes	Water Quality	Natural Resources	Carbon Emissions	Environment Score %	Opportunity	Business Environment	Other Infrastructure	Economy Score %	Overall Score %
Epoch 1	No Active Intervention	0	0			9	22.50%		0	<u></u>	0		0	18.75%	0	0	0	()	()		0	14.29%	<u></u>	9	0	8.33%	63.87%
Present Day	Adaptive Management)	3	12.50%				()			6.25%								5.36%				4.17%	28.27%
(2020-2040)	Advance the Line				9	3	10.00%							6.25%								3.57%				0.00%	19.82%
Epoch 2	No Active Intervention	0	0			9	22.50%		0	<u></u>	0		0	18.75%	0	0	0	O	(0	14.29%		9	0	8.33%	63.87%
	Adaptive Management			()	9	12.50%		<u></u>	0	()			6.25%	()							5.36%	S			4.17%	28.27%
(20/0-2070)	Advance the Line				<u> </u>	9	12.50%							6.25%								3.57%				0.00%	22.32%
Epoch 3	No Active Intervention	0	0			9	22.50%		0	<u></u>	0		0	18.75%	0	0	0	O	(0	14.29%		9	0	8.33%	63.87%
Long Term	Adaptive Management	•		O	3			<u></u>						6.25%	(5.36%				4.17%	28.27%
(2070-2120)	Advance the Line					3	12.50%							6.25%								3.57%				0.00%	22.32%

Table 4-3: Multi-variate Option Assessment for CMU 1.3: La Housse

CMU1.4:	St Aubin's Harbour			D	efe	nce					C	omr	nuni	ity				Е	nvir	oni	nen	t			Ecc	onomy	
Epoch	Policy Option	Erosion Risk	Floood Risk	Relative Cost	Maintenance	Technical Feasibility	Defence Score %		Stakeholder Objectives		Coastal Access	Travel Infrastructure	Health and Wellbeing	Community Score %	Ecology and Geology	Heritage	Landscape	Coastal Processes	Water Quality	Natural Resources	Carbon Emissions	Environment Score %	Opportunity	Business Environment	Other Infrastructure	Economy Score %	Overall Score %
	No Active Intervention	0	9	0		2	20.00%	9	3	9	3	0	2	2.08%	0	<u></u>	9	0	9	<u> </u>	0	10.71%	3	3	9	0.00%	32.80%
Epoch 1	Maintain the Defence Line						17.50%	<u> </u>						14.58%				(12.50%				0.00%	44.58%
Present Day (2020-2040)	Adaptive Management						15.00%							20.83%								12.50%				20.83%	69.17%
(=======,	Advance the Line					<u></u>	12.50%							8.33%								7.14%				8.33%	36.31%
	No Active Intervention	2				2	20.00%					<u> </u>		2.08%	0		9		9			10.71%		3		0.00%	32.80%
Epoch 2	Maintain the Defence Line													18.75%								10.71%	0			4.17%	53.63%
Medium Term	Adaptive Management													14.58%		_	_				9	10.71%				25.00%	65.30%
(2040-2070)								_		0				14.58%	0						9	10.71%		_		25.00%	65.30%
Epoch 3	No Active Intervention						20.00%				_			0.00%								12.50%				0.00%	32.50%
Long Term) [0	0		18.75%	0							10.71%			0	4.17%	53.63%
(2070-2120)	Adaptive Management				<u> </u>	0		-						6.25%			<u> </u>			ļ	<u> </u>	7.14%	0			12.50%	40.89%
	Advance the Line						10.00%							4.17%								8.93%				12.50%	35.60%

Table 4-4: Multi-variate Option Assessment for CMU 1.4: St Aubin's Harbour

CMU1.	5: St Aubin's Bay			D	efei	nce					C	omi	mun	ity				E	nvii	ron	men	t			Ecc	onomy	
Epoch	Policy Option	Erosion Risk	Floood Risk	Relative Cost	Maintenance	Technical Feasibility	Defence Score %	Community Acceptance	Stakeholder Objectives		Coastal Access	Travel Infrastructure	Health and Wellbeing	Community Score %	Ecology and Geology	Heritage	Landscape	Coastal Processes	Water Quality	Natural Resources	Carbon Emissions	Environment Score %	Opportunity	Business Environment	Other Infrastructure	Economy Score %	Overall Score %
	No Active Intervention	0	9	0	0	0	20.00%	9	3	3	9	0	9	2.08%	0	0	9	<u> </u>	3	0	0	10.71%	3	3	9	0.00%	32.80%
Epoch 1	Maintain the Defence Line						17.50%	<u> </u>						14.58%			<u></u>				<u></u>	12.50%				0.00%	44.58%
Present Day (2020-2040)	Adaptive Management						15.00%							20.83%			()					12.50%				20.83%	69.17%
(=========	Advance the Line						12.50%	<u></u>					<u> </u>	8.33%			()	(7.14%	()			8.33%	36.31%
	No Active Intervention	2			0	2	20.00%				<u></u>	0	9	2.08%	0		9		3			10.71%		3		0.00%	32.80%
Epoch 2	Maintain the Defence Line			<u> </u>										18.75%							0	10.71%				4.17%	53.63%
Medium Term	Adaptive Management							_					0	14.58%		_	_		_			10.71%				25.00%	65.30%
(2040-2070)										0	0	0		14.58%	0					_	9	10.71%	_	_		25.00%	65.30%
																										2.224	
Epoch 3	No Active Intervention						20.00%							0.00%								12.50%				0.00%	32.50%
Long Term		_) (0	0	0	18.75%		0		_				10.71%			0	4.17%	53.63%
(2070-2120)	Adaptive Management) (<u> </u>		_		0				6.25%		0	_	<u> </u>	_		O	7.14%	<u> </u>			12.50%	40.89%
	Advance the Line						10.00%			U				4.17%								8.93%				12.50%	35.60%

Table 4-5: Multi-variate Option Assessment for CMU 1.5: St Aubin's Bay

СМ	J1.6: St Helier			D	efe	nce					С	omi	nuni	ty			-	E	nvi	ron	men	t			Ecc	onomy	
Epoch	Policy Option	Erosion Risk	Floood Risk	Relative Cost	Maintenance	Technical Feasibility	Defence Score %	Community Acceptance	Stakeholder Objectives	Social Responsibility	Coastal Access	Travel Infrastructure	Health and Wellbeing	Community Score %	Ecology and Geology	Heritage	Landscape	Coastal Processes	Water Quality	Natural Resources	Carbon Emissions	Environment Score %	Opportunity	Business Environment	Other Infrastructure	Economy Score %	Overall Score %
	No Active Intervention	0	0	0	0	0	20.00%	9	3	3	<u> </u>	3	0	0.00%	0	9	9	0	0	0	0	12.50%	9	3	9	0.00%	32.50%
Epoch 1	Maintain the Defence Line						25.00%							14.58%								16.67%				4.17%	60.42%
Present Day (2020-2040)	Adaptive Management					<u> </u>	17.50%							10.42%				<u> </u>				12.50%			<u> </u>	12.50%	52.92%
(2020 20 10)							12.50%							8.33%								5.36%	(12.50%	38.69%
	No Asia data assista						00.000/							0.000/								40.500/				0.000/	00.500/
Epoch 2			_		_								0	0.00%				0	0	0		12.50%			O	0.00%	32.50%
Medium Term										9		0		2.08%				0				8.93%				0.00%	33.51%
(2040-2070)														14.58%								12.50%				20.83%	65.42%
	Advance the Line	0	2		<u></u>	()	12.50%			<u> </u>			<u></u>	8.33%	<u></u>			<u> </u>	<u> </u>			5.36%	0			20.83%	47.02%
	No Active Intervention	0	0	0	0	•	22.50%	0	3	9	0	0	0	6.25%	0	9	0	0	3	9	0	10.42%	9	3	9	0.00%	39.17%
Epoch 3							20.00%							14.58%								14.58%				20.83%	70.00%
Long Term (2070-2120)	Adaptive Management					()	15.00%			<u> </u>				10.42%				<u> </u>				12.50%			<u> </u>	20.83%	58.75%
(20.0 2.20)							12.50%							8.33%								5.36%				20.83%	47.02%

Table 4-6: Multi-variate Option Assessment for CMU 1.6: St Helier

CMU	1.7: La Collette			D	efe	nce					Co	mn	nuni	ty				Е	nvir	oni	men	t			Ecc	onomy	
Epoch	Policy Option	Erosion Risk	Floood Risk	Relative Cost	Maintenance	Technical Feasibility	Defence Score %	Community Acceptance	Stakeholder Objectives	Social Responsibility	Coastal Access	Travel Infrastructure	Health and Wellbeing	Community Score %	Ecology and Geology	Heritage	Landscape	Coastal Processes	Water Quality	Natural Resources	Carbon Emissions	Environment Score %	Opportunity	Business Environment	Other Infrastructure	Economy Score %	Overall Score %
	No Active Intervention	0	0	0	0	0	25.00%	<u></u>	2	<u> </u>	0	<u></u>	<u> </u>	10.42%	0	0	0	<u> </u>	<u> </u>	0	2	14.29%	2	9	0	4.17%	53.87%
Epoch 1	Maintain the Defence Line						17.50%							16.67%								14.29%				12.50%	60.95%
Present Day (2020-2040)	Adaptive Management					<u> </u>	15.00%							8.33%				<u> </u>				12.50%				8.33%	44.17%
(2020 20 10)	Advance the Line						12.50%			<u></u>	()	()		8.33%								7.14%		()		8.33%	36.31%
	No Active Intervention	0		0	0	0	25.00%		3		<u> </u>	<u></u>		10.42%	0		0	<u> </u>		0	0	14.29%	3	2		4.17%	53.87%
Epoch 2	Maintain the Defence Line													16.67%	0							14.29%				12.50%	60.95%
Medium Term (2040-2070)	Adaptive Management													8.33%							0	12.50%		_		8.33%	44.17%
(2040-2070)							12.50%							8.33%				<u> </u>			<u></u>	7.14%				8.33%	36.31%
	No. Astive Intervention						05.000/					<u> </u>		40.400/								4.4.000/				4.470/	50.070/
Epoch 3	No Active Intervention Maintain the Defence Line						25.00% 17.50%							10.42% 16.67%								14.29% 14.29%				4.17% 12.50%	53.87% 60.95%
Long Term	Adaptive Management													8.33%			_					12.50%			0	8.33%	44.17%
(2070-2120)					_		12.50%	_	_					8.33%			0			_	_	7.14%	_	<u> </u>	-	8.33%	36.31%

Table 4-7: Multi-variate Option Assessment for CMU 1.7: La Collette

CMU1.8	8: Havre des Pas			D	efe	nce					C	omr	nun	ity				E	nvir	roni	men	t			Eco	onomy	
Epoch	Policy Option	Erosion Risk	Floood Risk	Relative Cost	Maintenance	Technical Feasibility	Defence Score %		Stakeholder Objectives		Coastal Access	Travel Infrastructure	Health and Wellbeing	Community Score %	Ecology and Geology	Heritage	Landscape	Coastal Processes	Water Quality	Natural Resources	Carbon Emissions	Environment Score %	Opportunity	Business Environment	Other Infrastructure	Economy Score %	Overall Score %
	No Active Intervention	0	0	0			22.50%	9	3	0	3	3	9	2.08%	0	9	9	<u> </u>	9	0	3	5.36%	9	3	9	0.00%	29.94%
Epoch 1	Maintain the Defence Line						17.50%	<u> </u>						4.17%		<u> </u>	<u></u>	<u> </u>			<u> </u>	12.50%	()		()	0.00%	34.17%
Present Day (2020-2040)	Adaptive Management						15.00%							18.75%							()	14.29%				16.67%	64.70%
(2020 2010)	Advance the Line						17.50%							10.42%								8.93%				4.17%	41.01%
	No Active Intervention	2					22.50%	9			9	9	9	2.08%	0		9		9			8.93%		3		0.00%	33.51%
Epoch 2														22.92%								14.29%				12.50%	69.70%
Medium Term	Adaptive Management										0	0		14.58%	0		_)				12.50%				16.67%	58.75%
(2040-2070)							17.50%				0	0	9	12.50%	0			<u> </u>	_			8.93%		_		4.17%	43.10%
Epoch 3							22.50%				_			2.08%	0					0	_	8.93%				0.00%	33.51%
Long Term								_			0			22.92%	0				0	0	0	14.29%		0		12.50%	69.70%
(2070-2120)				<u> </u>	0	0		0	_		0	0		14.58%	0	0	_		0	0	<u> </u>	12.50%			0	16.67%	58.75%
	Advance the Line						17.50%							12.50%								8.93%				4.17%	43.10%

Table 4-8: Multi-variate Option Assessment for CMU 1.8: Havre Des Pas

CMU1.9:	La Greve D'Azette			D	efei	nce					С	om	mur	nity				E	nvi	ron	men	t			Ecc	onomy	
Epoch	Policy Option	Erosion Risk	Floood Risk	Relative Cost	Maintenance	Technical Feasibility	Defence Score %	Community Acceptance	Stakeholder Objectives		Coastal Access	Travel Infrastructure	Health and Wellbeing	Community Score %	Ecology and Geology	Heritage	Landscape	Coastal Processes	Water Quality	Natural Resources	Carbon Emissions	Environment Score %	Opportunity	Business Environment	Other Infrastructure	Economy Score %	Overall Score %
	No Active Intervention	0	0	0	0	0	22.50%	9	3	3	9	9	3	0.00%	9	<u></u>	9	0	0	0	9	7.14%	3	3	9	0.00%	29.64%
Epoch 1	Maintain the Defence Line						17.50%				0	()		10.42%			<u></u>	0				10.71%				0.00%	38.63%
Present Day (2020-2040)	Adaptive Management						15.00%							20.83%							(14.29%				16.67%	66.79%
(=======,	Advance the Line						17.50%						()	8.33%								10.71%				4.17%	40.71%
	No Active Intervention	2			0	2	22.50%	<u> </u>			9	<u> </u>		0.00%	9		9	0		0		7.14%				0.00%	29.64%
Epoch 2) (<u> </u>) 🕤						0	\neg	10.42%						0		10.71%				0.00%	38.63%
Medium Term														20.83%	\vdash		_	_				14.29%				16.67%	66.79%
(2040-2070)							17.50%	_		0	0	0		8.33%	0		_	0				10.71%	_			4.17%	40.71%
Epoch 3							20.00%					_		0.00%					-	0	_	7.14%				0.00%	27.14%
Long Term										0		0		20.83%					0	0	0	14.29%				8.33%	63.45%
(2070-2120)										0	<u></u>	<u></u>		8.33%		<u> </u>	<u> </u>		<u> </u>	<u> </u>	<u> </u>	8.93%	0		<u> </u>	8.33%	40.60%
	Advance the Line						17.50%							4.17%								5.36%				4.17%	31.19%

Table 4-9: Multi-variate Option Assessment for CMU 1.9: La Greve D'Azette

CMU1.10	: Le Hocq / Pontac			D	efe	nce					C	omr	nuni	ity				Е	nvir	oni	men	t			Eco	onomy	
Epoch	Policy Option	Erosion Risk	Floood Risk	Relative Cost	Maintenance	Technical Feasibility	Defence Score %		Stakeholder Objectives		Coastal Access	Travel Infrastructure	Health and Wellbeing	Community Score %	Ecology and Geology	Heritage	Landscape	Coastal Processes	Water Quality	Natural Resources	Carbon Emissions	Environment Score %	Opportunity	Business Environment	Other Infrastructure	Economy Score %	Overall Score %
	No Active Intervention	0	0	0			20.00%	9	9	9	3	9	9	0.00%	0	0	9	0	0	9	2	10.71%	9	9	9	0.00%	30.71%
Epoch 1	Maintain the Defence Line						15.00%	<u> </u>	0					12.50%				0			<u> </u>	10.71%	()			0.00%	38.21%
Present Day (2020-2040)	Adaptive Management						15.00%							20.83%							()	14.29%				16.67%	66.79%
(=======,	Advance the Line						17.50%							12.50%								8.93%				4.17%	43.10%
	No Active Intervention	<u></u>					20.00%				9			0.00%	0		9	0		9		10.71%		3		0.00%	30.71%
Epoch 2	Maintain the Defence Line	0) (0				12.50%			_					10.71%				0.00%	38.21%
Medium Term	Adaptive Management								_					20.83%		_						14.29%				16.67%	66.79%
(2040-2070)							17.50%			0				12.50%	0		0					8.93%				4.17%	43.10%
																	_										
Epoch 3	No Active Intervention	0					20.00%							0.00%	0						_	10.71%				0.00%	30.71%
Long Term		0			0						0		0	20.83%	0			_			0	14.29%		0		12.50%	62.62%
(2070-2120)	Adaptive Management							0		0	<u></u>	<u></u>	<u> </u>	12.50%			_		_		<u> </u>	8.93%		_		12.50%	48.93%
	Advance the Line						17.50%							10.42%								7.14%				4.17%	39.23%

Table 4-10: Multi-variate Option Assessment for CMU 1.10: Le Hocq / Pontac

CMU2.1: R	oyal Bay of Grouville			D	efe	nce					С	om	mur	ity				Е	nvir	oni	men	t			Ecc	nomy	
Epoch	Policy Option	Erosion Risk	Floood Risk	Relative Cost	Maintenance	Technical Feasibility	Defence Score %		Stakeholder Objectives		Coastal Access	Travel Infrastructure	Health and Wellbeing	Community Score %	Ecology and Geology	Heritage	Landscape	Coastal Processes	Water Quality	Natural Resources	Carbon Emissions	Environment Score %	Opportunity	Business Environment	Other Infrastructure	Economy Score %	Overall Score %
	No Active Intervention	0	0	0		2	22.50%	9	9	3	3	9	0	2.08%	9	<u></u>	9	0	9	9	2	7.14%	9	9	0	4.17%	35.89%
Epoch 1	Maintain the Defence Line						15.00%							10.42%				0	<u> </u>		<u> </u>	10.71%	()			4.17%	40.30%
Present Day (2020-2040)	Adaptive Management						15.00%							18.75%							()	14.29%				16.67%	64.70%
(2020-2010)	Advance the Line						15.00%							10.42%								5.36%				12.50%	43.27%
	No Active Intervention	2				2	22.50%						0	2.08%	9		9		9			7.14%		2		4.17%	35.89%
Epoch 2	Maintain the Defence Line			<u> </u>										10.42%								10.71%				4.17%	40.30%
Medium Term	Adaptive Management								_		0			18.75%				_				14.29%				16.67%	64.70%
(2040-2070)							15.00%			0	0	0		10.42%	_	_	_) 💿		0	_	5.36%				12.50%	43,27%
Epoch 3	No Active Intervention						22.50%							2.08%								7.14%				4.17%	35.89%
Long Term										0	0			18.75%	0							10.71%				16.67%	63.63%
(2070-2120)	Adaptive Management					<u> </u>		0		0			-	12.50%	<u> </u>	<u> </u>	_	_		_		7.14%		_		4.17%	38.81%
	Advance the Line						15.00%							10.42%								5.36%				4.17%	34.94%

Table 4-11:Multi-variate Option Assessment for CMU 2.1: Royal Bay of Grouville

CMU2.2	2: Gorey Harbour			D	efe	nce					С	om	muı	nity					Е	nvir	oni	nen	t			Eco	onomy	
Epoch	Policy Option	Erosion Risk	Floood Risk	Relative Cost	Maintenance	Technical Feasibility	Defence Score %		Stakeholder Objectives		Coastal Access	Travel Infrastructure	Health and Wellbeing	Comi	munity re %	Ecology and Geology	Heritage	Landscape	Coastal Processes	Water Quality	Natural Resources	Carbon Emissions	Environment Score %	Opportunity	Business Environment	Other Infrastructure	Economy Score %	Overall Score %
	No Active Intervention	<u></u>	0	0		0	22.50%	9	0	3	3	<u> </u>	.	4.1	7%	0	0	9	0	0	<u> </u>	0	14.29%	3	9	9	0.00%	40.95%
Epoch 1	Maintain the Defence Line						15.00%			0	0	0	0		92%								12.50%				8.33%	58.75%
Present Day (2020-2040)	Adaptive Management					<u> </u>	15.00%							8.3	3%	<u> </u>							7.14%				0.00%	30.48%
(=======,	Advance the Line						15.00%						9	8.3	3%								7.14%				0.00%	30.48%
	No Active Intervention	<u></u>		0		2	20.00%				9	<u> </u>		1 1	7%	0		9	<u> </u>		<u></u>		12.50%		9		0.00%	36.67%
Epoch 2		0] [0		+	3%								12.50%				0.00%	33.33%
Medium Term															92%	0	_			=			8.93%				8.33%	55.18%
(2040-2070)	·						15.00%			0	0	0	_			0						<u> </u>	7.14%				0.00%	36.73%
													÷															
Epoch 3		0					22.50%					9	_		7%	0							14.29%				0.00%	40.95%
Long Term										0	0				92%		0		_				12.50%				8.33%	58.75%
(2070-2120)						0		0	0			<u> </u>			33%	0			<u> </u>		ļ]	7.14%	<u> </u>			0.00%	30.48%
	Advance the Line						15.00%							8.3	33%								7.14%				0.00%	30.48%

Table 4-12: Multi-variate Option Assessment for CMU 2.2: Gorey Harbour

CMU3.1: I	La Route de la Cote			D	efe	nce					С	om	mui	nity	у		•		E	nvi	ron	men	t			Ecc	onomy	
Epoch	Policy Option	Erosion Risk	Floood Risk	Relative Cost	Maintenance	Technical Feasibility	Defence Score %		Stakeholder Objectives		Coastal Access	Travel Infrastructure	Health and Wellbeing	nealth and wellbellig	Community Score %	Ecology and Geology	Heritage	Landscape	Coastal Processes	Water Quality	Natural Resources	Carbon Emissions	Environment Score %	Opportunity	Business Environment	Other Infrastructure	Economy Score %	Overall Score %
	No Active Intervention	<u></u>	0	0		0	20.00%	9	9	3	3	2	9)	0.00%	9	3	9	0	0	9	0	7.14%	3	3	9	0.00%	27.14%
Epoch 1 Present Day	Maintain the Defence Line						15.00%					0	0)	14.58%								12.50%				12.50%	54.58%
(2020-2040)	Adaptive Management					<u> </u>	15.00%					<u>•</u>	0)	8.33%								8.93%				8.33%	40.60%
	Advance the Line						15.00%					(0		8.33%								3.57%				0.00%	26.90%
	No Active Intervention					0	20.00%				9	<u> </u>	9	,	0.00%	<u></u>		0			9		12.50%		3		0.00%	32.50%
Epoch 2				3 (1	14.58%								12.50%				12.50%	54.58%
Medium Term (2040-2070)	Adaptive Management								_	0	0	0	_	1	8.33%)	1	_		0			8.93%	0	_		8.33%	40.60%
(2040-2070)						<u> </u>	15.00%					0)				_	<u> </u>	-		-	3.57%				0.00%	26.90%
	N A C 14 C														0.000/								40.500/				0.000/	00.500/
Epoch 3							20.00% 15.00%						_	,	0.00%							_	12.50% 12.50%				0.00%	32.50% 54.58%
Long Term)	8.33%								8.93%	0			8.33%	40.60%
(2070-2120)							15.00%	_				0		,				-		0	9	<u> </u>	3.57%				0.00%	26.90%

Table 4-13: Multi-variate Option Assessment for CMU 3.1: La Route de la Cote

CMU3.2:	Archirondel Tower			D	efe	nce					C	omr	nun	ity				Е	nvir	oni	men	t			Eco	onomy	
Epoch	Policy Option	Erosion Risk	Floood Risk	Relative Cost	Maintenance	Technical Feasibility	Defence Score %	Community Acceptance	Stakeholder Objectives		Coastal Access	Travel Infrastructure	Health and Wellbeing	Community Score %	Ecology and Geology	Heritage	Landscape	Coastal Processes	Water Quality	Natural Resources	Carbon Emissions	Environment Score %	Opportunity	Business Environment	Other Infrastructure	Economy Score %	Overall Score %
	No Active Intervention	0	0	0			22.50%	9	3	9	9	9	9	0.00%	0	0	0	0	<u> </u>	0	2	14.29%	9	9	9	0.00%	36.79%
Epoch 1	Maintain the Defence Line						15.00%							12.50%				0				16.07%	()		()	0.00%	43.57%
Present Day (2020-2040)	Adaptive Management						15.00%							14.58%							()	10.71%				12.50%	52.80%
(2020-2010)	Advance the Line						17.50%							10.42%								5.36%				8.33%	41.61%
	No Active Intervention						20.00%				<u> </u>	2	<u> </u>	0.00%	0		0					14.29%		9		0.00%	34.29%
Epoch 2														16.67%								17.86%				8.33%	60.36%
Medium Term	Adaptive Management								_	0	0			10.42%	1							8.93%		_		4.17%	38.51%
(2040-2070)							17.50%			0	0	0	0	8.33%	0			<u> </u>				5.36%				4.17%	35.36%
Epoch 3							20.00%							0.00%	0			<u> </u>			_	14.29%				0.00%	34.29%
Long Term										0	0	0		16.67%	0			0				17.86%				8.33%	60.36%
(2070-2120)	·								<u> </u>	0	<u></u>			10.42%				<u>U</u>			<u> </u>	8.93%	(<u> </u>	4.17%	38.51%
	Advance the Line						15.00%							8.33%								5.36%				4.17%	32.86%

Table 4-14: Multi-variate Option Assessment for CMU 3.2: Archirondel Tower

CMU3.3:	St Catherine's Bay			D	efeı	nce					С	om	mui	nity					Ε	nvir	oni	nen	t			Ecc	onomy	
Epoch	Policy Option	Erosion Risk	Floood Risk	Relative Cost	Maintenance	Technical Feasibility	Defence Score %	Community Acceptance	Stakeholder Objectives		Coastal Access	Travel Infrastructure	Health and Wellbeing	Commi Score		Ecology and Geology	Heritage	Landscape	Coastal Processes	Water Quality	Natural Resources	Carbon Emissions	Environment Score %	Opportunity	Business Environment	Other Infrastructure	Economy Score %	Overall Score %
	No Active Intervention	0	0	0	0	0	22.50%	9	3	3	3	2	9	0.00	%	0	0	0	0	3	<u> </u>	0	12.50%	3	3	9	0.00%	35.00%
Epoch 1 Present Day	Maintain the Defence Line						17.50%						0	12.50)%				0				16.07%				4.17%	50.24%
(2020-2040)	Adaptive Management						15.00%						0	14.58	8%	O			()				8.93%				8.33%	46.85%
(2020 2010)	Advance the Line						17.50%						()	6.25	%								5.36%				0.00%	29.11%
	No Active Intervention	<u></u>		0			20.00%						9	0.00	0/2	0		0					12.50%		3		0.00%	32.50%
Epoch 2			_											12.50) (16.07%				4.17%	50.24%
Medium Term (2040-2070)	Adaptive Management) (_	0	0	0				0)		0)	0	8.93%	0	_	0	8.33%	46.85%
(2040-2070)		0			_		17.50%			0	<u></u>	0							<u> </u>				5.36%		_		0.00%	29.11%
	N. A. C. L				_									0.00									10.500/				0.000/	00.500/
Epoch 3							20.00%						_										12.50%				0.00%	32.50%
Long Term) () [9		12.50 14.58		ם כ) נ						16.07% 8.93%				4.17% 8.33%	50.24% 46.85%
(2070-2120)) ()				0		0		6.25) 🔾		_				5.36%		_		0.00%	29.11%

Table 4-15: Multi-variate Option Assessment for CMU 3.3: St Catherine's Bay

СМИ	J3.4: La Coupe			D	efe	nce					C	omr	nuni	ity				Е	nvi	ron	men	t			Ecc	onomy	
Epoch	Policy Option	Erosion Risk	Floood Risk	Relative Cost	Maintenance	Technical Feasibility	Defence Score %		Stakeholder Objectives		Coastal Access	Travel Infrastructure	Health and Wellbeing	Community Score %	Ecology and Geology	Heritage	Landscape	Coastal Processes	Water Quality	Natural Resources	Carbon Emissions	Environment Score %	Opportunity	Business Environment	Other Infrastructure	Economy Score %	Overall Score %
	No Active Intervention	<u> </u>	0	0			22.50%	3	3	9	3	9	9	0.00%	<u></u>	<u></u>	0	<u></u>	9	0	2	12.50%	9	2	0	4.17%	39.17%
Epoch 1	Maintain the Defence Line						15.00%			0				12.50%								16.07%				8.33%	51.90%
Present Day (2020-2040)	Adaptive Management						15.00%							14.58%							<u> </u>	8.93%	<u> </u>			8.33%	46.85%
(2020 2010)	Advance the Line						17.50%							6.25%								5.36%				4.17%	33.27%
	No Active Intervention	<u></u>					22.50%	3			9		<u> </u>	0.00%	<u></u>		0					12.50%		2		4.17%	39.17%
Epoch 2														12.50%								16.07%	0			8.33%	51.90%
Medium Term	Adaptive Management			3 (0	0			14.58%		_	_)				8.93%	0	_		8.33%	46.85%
(2040-2070)				.		0	17.50%			0	0	0	<u> </u>	6.25%) 🥯	_	_	0	5.36%			0	4.17%	33.27%
																						40.500/				4.470/	00.470/
Epoch 3							22.50%				_			0.00%								12.50%				4.17%	39.17%
Long Term											0			12.50% 14.58%								16.07% 8.93%				8.33% 8.33%	51.90%
(2070-2120)								-		0				6.25%			_					5.36%				4.17%	46.85% 33.27%

Table 4-16: Multi-variate Option Assessment for CMU 3.4 La Coupe

CMU4.1: La	Coupe to Rozel Bay			D	efe	nce					Co	omr	nuni	ty				E	nvir	onr	nen	t			Ecc	onomy	
Epoch	Policy Option	Erosion Risk	Floood Risk	Relative Cost	Maintenance	Technical Feasibility	Defence Score %		Stakeholder Objectives	Social Responsibility	Coastal Access	Travel Infrastructure	Health and Wellbeing	Community Score %	Ecology and Geology	Heritage	Landscape	Coastal Processes	Water Quality	Natural Resources	Carbon Emissions	Environment Score %	Opportunity	Business Environment	Other Infrastructure	Economy Score %	Overall Score %
Epoch 1	No Active Intervention	0	0		0		25.00%	0	0	0	0	0	0	18.75%	0		0	0		0		16.07%	2	3		4.17%	63.99%
Present Day	Adaptive Management						15.00%	(10.42%						0		7.14%				4.17%	36.73%
(2020-2040)	Advance the Line				<u> </u>		12.50%	()	()		0			10.42%	<u></u>	<u></u>		()		<u> </u>		7.14%	<u> </u>		()	4.17%	34.23%
Epoch 2	No Active Intervention	0	0	0	0	0	25.00%	0	0	0	0			18.75%	0		0	0	0	0	0	16.07%	3	3		4.17%	63.99%
Medium Term	Adaptive Management				0			()						10.42%	0			()		0		7.14%				4.17%	36.73%
(2040-2070)	Advance the Line						12.50%				0			10.42%	()	<u></u>				0		7.14%				4.17%	34.23%
Epoch 3	No Active Intervention	0	0	0	0		25.00%	0	0	0	0		0	18.75%	0		0	0	O	0		16.07%	3	3	0	4.17%	63.99%
Long Term	Adaptive Management													10.42%	0							7.14%			0	4.17%	36.73%
(2070-2120)	Advance the Line				(<u></u>	12.50%							10.42%						(()	7.14%				4.17%	34.23%

Table 4-17: Multi-variate Option Assessment for CMU 4.1 La Coupe to Rozel Bay

СМИ	4.2: Rozel Bay			D	efe	nce					С	om	mui	nity	,				E	nvi	ron	men	t			Ecc	nomy	
Epoch	Policy Option	Erosion Risk	Floood Risk	Relative Cost	Maintenance	Technical Feasibility	Defence Score %		Stakeholder Objectives		Coastal Access	Travel Infrastructure	Health and Wellheing	realth and Wendering	Community Score %	Ecology and Geology	Heritage	Landscape	Coastal Processes	Water Quality	Natural Resources	Carbon Emissions	Environment Score %	Opportunity	Business Environment	Other Infrastructure	Economy Score %	Overall Score %
	No Active Intervention	3	0	0	0		22.50%	3	2	3	3	0	0)	4.17%	0	<u></u>	<u> </u>	0	<u></u>	<u></u>	0	14.29%	2	3	9	0.00%	40.95%
Epoch 1	Maintain the Defence Line						17.50%						•)	22.92%								14.29%				12.50%	67.20%
Present Day (2020-2040)	Adaptive Management					.	12.50%)	18.75%				.				8.93%				12.50%	52.68%
(2020 20 10)	Advance the Line				(12.50%			()	()				12.50%	()	((5.36%		(4.17%	34.52%
	No Active Intervention					0	20.00%	9				0		,	4.17%			<u></u>				0	14.29%				0.00%	38.45%
Epoch 2												0			22.92%								14.29%				12.50%	67.20%
Medium Term (2040-2070))							_	0	0	0		1)) 💿		0		8.93%	0			16.67%	59.35%
(2040-2070)	· ·						15.00%			_)		_	_		<u> </u>				5.36%		_	9	8.33%	41.19%
	No Active Intervention		0				20.00%								4.17%			<u> </u>			<u></u>	3	14.29%	9		9	0.00%	20.450/
Epoch 3		_													22.92%						-		14.29%				12.50%	38.45% 67.20%
Long Term					0) (9	_		18.75%								8.93%	0			16.67%	59.35%
(2070-2120)					0		15.00%			0	0			_	12.50%	_			<u> </u>	0			5.36%	1			8.33%	41.19%

Table 4-18: Multi-variate Option Assessment for CMU 4.2: Rozel Bay

СМ	J4.3: Le Catel			D	efe	nce					Co	mn	nuni	ty				Е	nvir	onr	nen	t			Eco	nomy	
Epoch	Policy Option	Erosion Risk	Floood Risk	Relative Cost	Maintenance	Technical Feasibility	Defence Score %	Community Acceptance	Stakeholder Objectives	Social Responsibility	Coastal Access	Travel Infrastructure	Health and Wellbeing	Community Score %	Ecology and Geology	Heritage	Landscape	Coastal Processes	Water Quality	Natural Resources	Carbon Emissions	Environment Score %	Opportunity	Business Environment	Other Infrastructure	Economy Score %	Overall Score %
Epoch 1	No Active Intervention	0	0	0	0	0	25.00%	0	0	0	0	0	0	18.75%	0	0	0	0	0		0	16.07%	9	3		4.17%	63.99%
Present Day	Adaptive Management						15.00%			0				10.42%				<u> </u>				5.36%				4.17%	34.94%
(2020-2040)	Advance the Line			<u> </u>	<u></u>		12.50%	(()	()		(10.42%	()	0			<u></u>	<u> </u>		5.36%	()			4.17%	32.44%
Epoch 2	No Active Intervention	0	0	2	0	3	25.00%	0	0		0		0	18.75%	0	0	0	0	0	O	0	16.07%	3			4.17%	63.99%
Medium Term	Adaptive Management			()	<u> </u>		15.00%	9						10.42%	()			()	<u> </u>		()	5.36%	S			4.17%	34.94%
(2040-2070)	Advance the Line			(<u> </u>	12.50%	<u></u>						10.42%								5.36%	<u></u>			4.17%	32.44%
Enoch 2	No Active Intervention	0	0		0		25.00%	0	3		0	0	0	18.75%			0	O				16.07%	2	3		4.17%	63.99%
Epoch 3 Long Term	Adaptive Management									0	0		0	10.42%		_	_	9				5.36%				4.17%	34.94%
(2070-2120)	Advance the Line	_		<u> </u>) 💿	12.50%				0		0	10.42%	_	_	_	<u> </u>	0		<u> </u>	5.36%			0	4.17%	32.44%

Table 4-19: Multi-variate Option Assessment for CMU 4.3: Le Catel

CMU4	1.4: Bouley Bay			D	efe	nce					С	om	mui	nity					Е	nvi	roni	men	t			Eco	onomy	
Epoch	Policy Option	Erosion Risk	Floood Risk	Relative Cost	Maintenance	Technical Feasibility	Defence Score %		Stakeholder Objectives		Coastal Access	Travel Infrastructure	Health and Wellbeing	Col	mmunity core %	Ecology and Geology	Heritage	Landscape	Coastal Processes	Water Quality	Natural Resources	Carbon Emissions	Environment Score %	Opportunity	Business Environment	Other Infrastructure	Economy Score %	Overall Score %
	No Active Intervention	0	0	0	0	0	22.50%	9	9	9	2	0	0) 4	4.17%	0	0	0	<u> </u>	0	0	0	14.29%	9	3	9	0.00%	40.95%
Epoch 1	Maintain the Defence Line						17.50%							2	2.92%								16.07%				8.33%	64.82%
Present Day (2020-2040)	Adaptive Management						12.50%							1	8.75%								10.71%				8.33%	50.30%
(2020 2010)	Advance the Line						12.50%							1	2.50%								5.36%				4.17%	34.52%
	No Active Intervention	<u></u>		0	0	•	20.00%						0	1 /	4.17%	0		0					14.29%		3		0.00%	38.45%
Epoch 2															2.92%								16.07%	0			8.33%	64.82%
Medium Term (2040-2070)	Adaptive Management								_	0	0				8.75%		_)			0	10.71%	0	_		12.50%	56.96%
(2040-2070)					_	<u> </u>	15.00%			0					2.50%					_	_		5.36%		_		8.33%	41.19%
	N A C 14 C														4.470/								4.4.000/				0.000/	00.450/
Epoch 3							20.00%						_		4.17% 2.92%							_	14.29% 16.07%				0.00% 8.33%	38.45% 64.82%
Long Term															8.75%								10.71%	0			12.50%	56.96%
(2070-2120)							15.00%	_) ()		0		-		2.50%			_) (_		5.36%	0			8.33%	41.19%

Table 4-20: Multi-variate Option Assessment for CMU 4.4: Bouley Bay

СМ	IU4.5: Egypt			D	efe	nce					Co	mn	nuni	ty				Е	nvir	onr	nen	t			Ecc	onomy	
Epoch	Policy Option	Erosion Risk	Floood Risk	Relative Cost	Maintenance	_	Defence Score %	Community Acceptance	Stakeholder Objectives	Social Responsibility	Coastal Access	Travel Infrastructure	Health and Wellbeing	Community Score %	Ecology and Geology	Heritage	Landscape	Coastal Processes	Water Quality	Natural Resources	Carbon Emissions	Environment Score %	Opportunity	Business Environment	Other Infrastructure	Economy Score %	Overall Score %
Epoch 1	No Active Intervention	0			0	0	25.00%	O	3	O	0	3	0	18.75%	0	0	0	O	O			16.07%	3	3		4.17%	63.99%
Present Day	Adaptive Management						15.00%	9		0	<u></u>			10.42%		0						5.36%				4.17%	34.94%
(2020-2040)	Advance the Line				<u></u>		12.50%		()	()	()		<u></u>	10.42%	()	()			<u></u>	<u> </u>		5.36%	()			4.17%	32.44%
Epoch 2	No Active Intervention		0		0		25.00%	0	0	O	0	0	0	18.75%	0		0		O			16.07%	3	9		4.17%	63.99%
•	Adaptive Management						15.00%							10.42%		0		3				5.36%			0	4.17%	34.94%
(2040-2070)	Advance the Line				<u> </u>		12.50%			(()			10.42%					()			5.36%	()			4.17%	32.44%
Epoch 3	No Active Intervention	0					25.00%	0		<u></u>	0	0		18.75%								16.07%	3	3		4.17%	63.99%
Long Term	Adaptive Management			<u> </u>	0				_	0	0		0	10.42%	0	0						5.36%		0	0	4.17%	34.94%
(2070-2120)	Advance the Line	-					12.50%	_			_						_	_		_		5.36%				4.17%	32.44%

Table 4-21: Multi-variate Option Assessment for CMU 4.5: Egypt

CMU4	4.6: Bonne Nuit			D	efe	nce					C	on	nm	unit	ty				E	nvi	ron	mer	t			Ecc	onomy	
Epoch	Policy Option	Erosion Risk	Floood Risk	Relative Cost	Maintenance	Technical Feasibility	Defence Score %		Stakeholder Objectives		Coastal Access	Coastal Access	I ravel infrastructure	Health and Wellbeing	Community Score %	Ecology and Geology	Heritage	Landscape	Coastal Processes	Water Quality	Natural Resources	Carbon Emissions	Environment Score %	Opportunity	Business Environment	Other Infrastructure	Economy Score %	Overall Score %
	No Active Intervention	0	0	0	0	0	22.50%	9	<u> </u>	9	2) [) נ	<u> </u>	4.17%	0	0	0	0	0	0	0	14.29%	9	3	9	0.00%	40.95%
Epoch 1	Maintain the Defence Line						17.50%			0	0) [9	22.92%								14.29%				8.33%	63.04%
Present Day (2020-2040)	Adaptive Management						12.50%) [18.75%								8.93%				8.33%	48.51%
(2020 2010)	Advance the Line						12.50%								12.50%								5.36%				4.17%	34.52%
	No Active Intervention					2	22.50%	9			3	1 6	1	<u> </u>	4.17%	<u></u>					0		14.29%		3		0.00%	40.95%
Epoch 2															22.92%							0	14.29%	0			8.33%	63.04%
Medium Term (2040-2070)	Adaptive Management	0				0		_		0	0				18.75%		_	_		0	0	0	8.93%	0	_		8.33%	48.51%
(2040-2070)							12.50%			0			-		12.50%					_	_		5.36%				4.17%	34.52%
	N A C 14 C														4.470/								44.000/				0.000/	40.050/
Epoch 3							22.50% 17.50%				9		_		4.17% 22.92%							_	14.29% 14.29%				0.00% 8.33%	40.95% 63.04%
Long Term															18.75%								8.93%	0			8.33%	48.51%
(2070-2120))	†	_		0	<u> </u>	-	-		12.50%			+=-		0	0	0	5.36%	<u> </u>			4.17%	34.52%

Table 4-22: Multi-variate Option Assessment for CMU 4.6: Bonne Nuit

CMU4	.7: La Perruque			D	efeı	nce					Co	omn	nuni	ity				Е	nvir	onr	nen	t			Ecc	onomy	
Epoch	Policy Option	Erosion Risk	Floood Risk	Relative Cost	Maintenance	Technical Feasibility	Defence Score %	Community Acceptance	Stakeholder Objectives	Social Responsibility	Coastal Access	Travel Infrastructure	Health and Wellbeing	Community Score %	Ecology and Geology	Heritage	Landscape	Coastal Processes	Water Quality	Natural Resources	Carbon Emissions	Environment Score %	Opportunity	Business Environment	Other Infrastructure	Economy Score %	Overall Score %
Epoch 1	No Active Intervention	0	0	0		0	25.00%	0	0		0	0	0	18.75%	0		0					16.07%	9			4.17%	63.99%
Present Day	Adaptive Management					.	15.00%		()					10.42%								5.36%		()		4.17%	34.94%
(2020-2040)	Advance the Line						12.50%				()			10.42%				()				5.36%				4.17%	32.44%
Epoch 2	No Active Intervention	0	0	0		0	25.00%	0		0		0	O	18.75%		0	0			0		16.07%	3	3		4.17%	63.99%
	Adaptive Management								_				0	10.42%								5.36%		<u> </u>	0	4.17%	34.94%
(2040-2070)	Advance the Line						12.50%	<u></u>						10.42%		()						5.36%	()			4.17%	32.44%
Epoch 3	No Active Intervention	0	0				25.00%	0		0	0	0	0	18.75%			0					16.07%	2	3		4.17%	63.99%
Long Term	Adaptive Management			9	0	0) 💿		0	0		0	10.42%		0)			5.36%			0	4.17%	34.94%
(2070-2120)	Advance the Line	_		0	0	0		_	_		0		_		0	0	0	<u> </u>		_	0	5.36%	_		0	4.17%	32.44%

Table 4-23: Multi-variate Option Assessment for CMU 4.7: La Perruque

CMU4.8	8: Ronez Quarry			D	efer	nce					Co	mn	nuni	ty			-	Е	nvir	onr	nen	t			Ecc	nomy	
Epoch	Policy Option	Erosion Risk	Floood Risk	Relative Cost	Maintenance	Technical Feasibility	Defence Score %	Community Acceptance	Stakeholder Objectives	Social Responsibility	Coastal Access	Travel Infrastructure	Health and Wellbeing	Community Score %	Ecology and Geology	Heritage	Landscape	Coastal Processes	Water Quality	Natural Resources	Carbon Emissions	Environment Score %	Opportunity	Business Environment	Other Infrastructure	Economy Score %	Overall Score %
Epoch 1	No Active Intervention	0	0	0		0	25.00%				0			14.58%	0	0	0			0		14.29%		3		8.33%	62.20%
Present Day	Adaptive Management					<u> </u>	15.00%		<u></u>					12.50%						(7.14%				4.17%	38.81%
(2020-2040)	Advance the Line						12.50%							12.50%						<u> </u>		7.14%				4.17%	36.31%
Epoch 2	No Active Intervention	0	0	0	0	0	25.00%	0	0	0		0	0	14.58%	0	0	0	0	O	0		14.29%	0	3	0	8.33%	62.20%
	Adaptive Management						15.00%			0				14.58%								8.93%		0		12.50%	51.01%
(2040-2070)	Advance the Line						12.50%							16.67%				<u> </u>				8.93%				12.50%	50.60%
Epoch 3	No Active Intervention	0	0	0			25.00%		0				0	14.58%								14.29%		3	0	8.33%	62.20%
Long Term	Adaptive Management				0								0	14.58%) 💿				8.93%				12.50%	51.01%
(2070-2120)	Advance the Line	_						_	_	_	_									_		8.93%	_	_		12.50%	53.10%

Table 4-24: Multi-variate Option Assessment for CMU 4.8: Ronez Quarry

СМІ	U4.9: Crabbé			D	efeı	nce					Co	omn	nuni	ity				Е	nvir	onr	nen	t			Ecc	nomy	
Epoch	Policy Option	Erosion Risk	Floood Risk	Relative Cost	Maintenance	_	Defence Score %	Community Acceptance	Stakeholder Objectives	Social Responsibility	Coastal Access	Travel Infrastructure	Health and Wellbeing	Community Score %	Ecology and Geology	Heritage	Landscape	Coastal Processes	Water Quality	Natural Resources	Carbon Emissions	Environment Score %	Opportunity	Business Environment	Other Infrastructure	Economy Score %	Overall Score %
Epoch 1	No Active Intervention	0					25.00%	0					0	18.75%			0					16.07%				4.17%	63.99%
Present Day	Adaptive Management						15.00%							10.42%								5.36%				4.17%	34.94%
(2020-2040)	Advance the Line				(12.50%		()	()				10.42%						(5.36%				4.17%	32.44%
Epoch 2	No Active Intervention	0	0	0		0	25.00%	3	0		0	0	0	18.75%	0	O	0	O	O			16.07%	3	3	0	4.17%	63.99%
	Adaptive Management			©	0	.	15.00%	9	()				0	10.42%		0		<u> </u>	<u> </u>			5.36%	S		0	4.17%	34.94%
(2040-2070)	Advance the Line						12.50%							10.42%								5.36%				4.17%	32.44%
Epoch 3	No Active Intervention	0	0				25.00%	0	0	0	0	0	0	18.75%								16.07%	2	3		4.17%	63.99%
Long Term	Adaptive Management				0				9	0	0		0	10.42%) 6	0			5.36%			0	4.17%	34.94%
(2070-2120)	Advance the Line	_		_	0	<u> </u>	12.50%		_	_	0		+	10.42%						_		5.36%	_		0	4.17%	32.44%

Table 4-25: Multi-variate Option Assessment for CMU 4.9: Crabbé

CMU4.1	0: Greve de Lecq			D	efe	nce					С	om	mur	nity				E	nvi	ron	men	t			Ecc	onomy	
Epoch	Policy Option	Erosion Risk	Floood Risk	Relative Cost	Maintenance	Technical Feasibility	Defence Score %		Stakeholder Objectives		Coastal Access	Travel Infrastructure	Health and Wellbeing	Community Score %	Ecology and Geology	Heritage	Landscape	Coastal Processes	Water Quality	Natural Resources	Carbon Emissions	Environment Score %	Opportunity	Business Environment	Other Infrastructure	Economy Score %	Overall Score %
	No Active Intervention	0	0	0	0	0	22.50%	9	9	9	2	0	0	4.17%	0	0	0	<u></u>	0	0	0	14.29%	3	3	9	0.00%	40.95%
Epoch 1	Maintain the Defence Line						17.50%							22.92%								14.29%				8.33%	63.04%
Present Day (2020-2040)	Adaptive Management						12.50%							18.75%								8.93%				8.33%	48.51%
(2020-2010)	Advance the Line						12.50%							12.50%								5.36%				0.00%	30.36%
	No Active Intervention	•					22.50%	9						4.17%	0		0					14.29%		3		0.00%	40.95%
Epoch 2			_											22.92%	0							14.29%	0			8.33%	63.04%
Medium Term	Adaptive Management								_	0						_	_		_		0	8.93%	0	_		8.33%	48.51%
(2040-2070)							12.50%			0	0	0			<u> </u>				_		0	5.36%				0.00%	30.36%
												Ħ															
Epoch 3							22.50%												_			14.29%				0.00%	40.95%
Long Term								_			0			22.92%	0				0			14.29%			0	8.33%	63.04%
(2070-2120)							†	<u> </u>			<u> </u>	0		18.75%							9	8.93%				8.33%	48.51%
	Advance the Line						12.50%							12.50%		U						5.36%				0.00%	30.36%

Table 4-26: Multi-variate Option Assessment for CMU 4.10: Greve de Lecq

СМИ	4.11: Plemont			D	efer	nce					Co	omn	nuni	ity				Е	nvir	onr	nen	t			Ecc	onomy	
Epoch	Policy Option	Erosion Risk	Floood Risk	Relative Cost	Maintenance	Technical Feasibility	Defence Score %		Stakeholder Objectives	Social Responsibility	Coastal Access	Travel Infrastructure	Health and Wellbeing	Community Score %	Ecology and Geology	Heritage	Landscape	Coastal Processes	Water Quality	Natural Resources	Carbon Emissions	Environment Score %	Opportunity	Business Environment	Other Infrastructure	Economy Score %	Overall Score %
Epoch 1	No Active Intervention	0	0	0		0	25.00%		0		0	0	0	18.75%	0		0			0		16.07%	9	3		4.17%	63.99%
Present Day	Adaptive Management					.	15.00%							10.42%						0		5.36%		()		4.17%	34.94%
(2020-2040)	Advance the Line						12.50%		()		()			10.42%				()		<u> </u>		5.36%				4.17%	32.44%
Epoch 2	No Active Intervention	0	0		0	0	25.00%	0	0	0		0	0	18.75%		0				0		16.07%	3	3		4.17%	63.99%
	Adaptive Management						15.00%	()	(10.42%				(5.36%	9		0	4.17%	34.94%
(2040-2070)	Advance the Line						12.50%				()			10.42%		()				()		5.36%				4.17%	32.44%
Epoch 3	No Active Intervention	0	0				25.00%	0	0	0	0	0	0	18.75%			0					16.07%	2	3		4.17%	63.99%
Long Term	Adaptive Management				0			<u> </u>	0	0	0		0	10.42%		0) 💿				5.36%			0	4.17%	34.94%
(2070-2120)	Advance the Line	_							_				_			0				_		5.36%	_			4.17%	32.44%

Table 4-27: Multi-variate Option Assessment for CMU 4.11: Plemont

CMU5.	1: St Ouen's Bay			D	efe	nce					C	on	nmı	unit	ty				E	nvi	ron	mer	t			Ec	onomy	
Epoch	Policy Option	Erosion Risk	Floood Risk	Relative Cost	Maintenance	Technical Feasibility	Defence Score %		Stakeholder Objectives		Coastal Access	Coastal Access	I ravel Intrastructure	Health and Wellbeing	Community Score %	Ecology and Geology	Heritage	Landscape	Coastal Processes	Water Quality	Natural Resources	Carbon Emissions	Environment Score %	Opportunity	Business Environment	Other Infrastructure	Economy Score %	Overall Score %
	No Active Intervention	0	0	0	2	0	22.50%	9	3	0	3) נ	<u> </u>	6.25%	0	9	0	0	3	0	0	10.71%	9	9	0	4.17%	43.63%
Epoch 1 Present Day	Maintain the Defence Line			0	()		17.50%			0	0				22.92%								16.07%				16.67%	73.15%
(2020-2040)	Adaptive Management						12.50%								16.67%								7.14%				8.33%	44.64%
	Advance the Line						12.50%								12.50%								3.57%				4.17%	32.74%
	No Active Intervention					0	22.50%				3		1	3	6.25%	0					0		10.71%		2		4.17%	43.63%
Epoch 2			_									_			22.92%							0	16.07%		0		16.67%	73.15%
Medium Term (2040-2070)	Adaptive Management	0				0				0	0	_	_		16.67%		_	_	0	_	_	0	7.14%	0		0	8.33%	44.64%
(2040-2070)							12.50%			0					12.50%			_	<u></u>		_		3.57%		_		4.17%	32.74%
	N A C 14 C																						40.740/				4.470/	44.400/
Epoch 3							20.00%			0	9		_		6.25% 22.92%							_	10.71% 16.07%				4.17% 16.67%	41.13% 73.15%
Long Term															16.67%						0		7.14%			0	8.33%	44.64%
(2070-2120)) 🔾)		_	_	0	<u> </u>		- 1	9	12.50%)	<u> </u>	-		0	_		3.57%		_	_	4.17%	32.74%

Table 4-28: Multi-variate Option Assessment for CMU 5.1: St Ouen's Bay

СМС	J5.2: Petit Port			D	efe	nce					С	om	mui	nity				E	nvi	roni	men	t			Eco	nomy	
Epoch	Policy Option	Erosion Risk	Floood Risk	Relative Cost	Maintenance	Technical Feasibility	Defence Score %	Community Acceptance	Stakeholder Objectives		Coastal Access	Travel Infrastructure	Health and Wellheing	Community Score %	Ecology and Geology	Heritage	Landscape	Coastal Processes	Water Quality	Natural Resources	Carbon Emissions	Environment Score %	Opportunity	Business Environment	Other Infrastructure	Economy Score %	Overall Score %
	No Active Intervention	0	0	0	0	0	22.50%	9	3	0	9	0	<u> </u>	6.25%	0	9	0	0	9	0	0	10.71%	9	9	0	4.17%	43.63%
Epoch 1	Maintain the Defence Line						17.50%					0		22.92%								16.07%				4.17%	60.65%
Present Day (2020-2040)	Adaptive Management					<u> </u>	15.00%							16.67%								7.14%				4.17%	42.98%
(2020 20 10)	Advance the Line					()	12.50%	<u></u>		0	0			12.50%								3.57%			<u></u>	0.00%	28.57%
	No Active Intervention	2		0	0	2	22.50%	9			9	0		6.25%		3			9			10.71%		9		4.17%	43.63%
Epoch 2) [22.92%	0							16.07%				4.17%	60.65%
Medium Term	Adaptive Management) 6						0	0	0			0		_		_			7.14%		_		4.17%	42.98%
(2040-2070)) 💿	_	<u> </u>	12.50%			0	0	0				0	_	0	_	_		3.57%				0.00%	28.57%
)																							
Epoch 3							22.50%					0					-	0			_	10.71%				4.17%	43.63%
Long Term										0	0			22.92%	0	0		0	0			16.07%			0	4.17%	60.65%
(2070-2120)					0			9	0			0		16.67%	<u> </u>	<u> </u>	0			0		7.14%	<u> </u>		0	4.17%	42.98%
	Advance the Line						12.50%							12.50%								3.57%				0.00%	28.57%

Table 4-29: Multi-variate Option Assessment for CMU 5.2: Petit Port

CMU6	.1: Gorselands			D	efen	ce					Co	mn	nuni	ity				Е	nvir	on	men	ıt			Eco	onomy	
Epoch	Policy Option	Erosion Risk	Floood Risk	Relative Cost	Maintenance	_	Defence Score %	Community Acceptance	Stakeholder Objectives	Social Responsibility	Coastal Access	Travel Infrastructure	Health and Wellbeing	Community Score %	Ecology and Geology	Heritage	Landscape	Coastal Processes	Water Quality	Natural Resources	Carbon Emissions	Environment Score %	Opportunity	Business Environment	Other Infrastructure	Economy Score %	Overall Score %
Epoch 1	No Active Intervention			0	0	9	22.50%		0		<u></u>	3	0	14.58%	0	0	2	(0	(0	16.07%	3	3	0	4.17%	57.32%
Present Day	Adaptive Management				<u> </u>	<u> </u>	17.50%		()				<u></u>	10.42%			<u></u>	()	<u></u>	<u></u>		7.14%		()		4.17%	39.23%
(2020-2040)	Advance the Line				<u> </u>	9	12.50%	()		(()		<u></u>	8.33%				(<u></u>		3.57%	(4.17%	28.57%
Epoch 2	No Active Intervention			0	0 (9	22.50%		0	O		0	0	14.58%	0		0		0			16.07%	3		0	4.17%	57.32%
Medium Term	Adaptive Management				<u> </u>	<u> </u>	17.50%	((<u> </u>		<u></u>	10.42%			<u> </u>	()	<u> </u>			7.14%	S	(4.17%	39.23%
(2040-2070)	Advance the Line				<u> </u>	9	12.50%			<u> </u>			0	8.33%					0			3.57%	<u></u>			4.17%	28.57%
Epoch 3	No Active Intervention	0				9	22.50%							14.58%	0		0					16.07%	9	9	0	4.17%	57.32%
Long Term	Adaptive Management					0	17.50%) 💿	<u></u>	0			0	10.42%) 💿			0	7.14%) 💿			4.17%	39.23%
(2070-2120)	Advance the Line	_			_	9							_	8.33%		_		()				3.57%				4.17%	28.57%

Table 4-30: Multi-variate Option Assessment for CMU 6.1: Gorselands

СМО	6.2: Les Creux			D	efei	nce					Co	mn	nuni	ty				Е	nvir	onr	nen	t			Eco	nomy	
Epoch	Policy Option	Erosion Risk	Floood Risk	Relative Cost	Maintenance	_	Defence Score %	Community Acceptance	Stakeholder Objectives	Social Responsibility	Coastal Access	Travel Infrastructure	Health and Wellbeing	Community Score %	Ecology and Geology	Heritage	Landscape	Coastal Processes	Water Quality	Natural Resources	Carbon Emissions	Environment Score %	Opportunity	Business Environment	Other Infrastructure	Economy Score %	Overall Score %
Epoch 1	No Active Intervention	0	0	0	0	0	22.50%	0	0		0	3	0	10.42%	0		0	3		0	0	12.50%	9			4.17%	49.58%
Present Day	Adaptive Management						17.50%		(10.42%						0		7.14%				4.17%	39.23%
(2020-2040)	Advance the Line						12.50%			()				6.25%						<u> </u>		5.36%				8.33%	32.44%
Epoch 2	No Active Intervention	0	0	0	0		22.50%	0	0		0	3	0	10.42%			0	2		0	0	12.50%	3			4.17%	49.58%
	Adaptive Management			0										10.42%		0		<u> </u>				7.14%				4.17%	39.23%
(2040-2070)	Advance the Line				()	<u></u>	12.50%	()		()		()		6.25%	()	()	()			<u> </u>		5.36%				8.33%	32.44%
Epoch 3	No Active Intervention	0	0				22.50%	0	0	<u></u>	0	3		10.42%	0			2		<u></u>		12.50%	3	3		4.17%	49.58%
Long Term	Adaptive Management			0					<u> </u>		0			10.42%	<u> </u>	0	<u></u>	0				7.14%				4.17%	39.23%
(2070-2120)	Advance the Line						12.50%			()		-		6.25%	()					(5.36%				8.33%	32.44%

Table 4-31: Multi-variate Option Assessment for CMU 6.2: Les Creux

CMU6.3	: St Brelade's Bay			D	efe	nce					C	omr	nun	ity				Е	nvir	oni	men	t			Ecc	onomy	
Epoch	Policy Option	Erosion Risk	Floood Risk	Relative Cost	Maintenance	Technical Feasibility	Defence Score %	Community Acceptance	Stakeholder Objectives	Social Responsibility	Coastal Access	Travel Infrastructure	Health and Wellbeing	Community Score %	Ecology and Geology	Heritage	Landscape	Coastal Processes	Water Quality	Natural Resources	Carbon Emissions	Environment Score %	Opportunity	Business Environment	Other Infrastructure	Economy Score %	Overall Score %
	No Active Intervention	0	0	0	0	0	20.00%	9	9	0	3	0	9	4.17%	0	0	9	0	9	0	0	10.71%	3	3	9	0.00%	34.88%
Epoch 1	Maintain the Defence Line						15.00%							12.50%			<u> </u>					10.71%				0.00%	38.21%
Present Day (2020-2040)	Adaptive Management													18.75%				S				14.29%				16.67%	64.70%
(2020 20 10)							15.00%						<u></u>	6.25%								7.14%				8.33%	36.73%
	No Active Intervention			0	0		20.00%	<u> </u>			9	0	9	4.17%	0		<u> </u>		<u> </u>	0	2	10.71%	3	3		0.00%	34.88%
Epoch 2	Maintain the Defence Line						15.00%					0		12.50%	_		_		_	0	0	10.71%				0.00%	38.21%
Medium Term	Adaptive Management													18.75%								14.29%				16.67%	64.70%
(2040-2070)										0	0	0		6.25%	0)	_) 💿				7.14%				8.33%	36.73%
															_												
Epoch 3	No Active Intervention						20.00%							4.17%								10.71%				0.00%	34.88%
Long Term	Maintain the Defence Line													18.75%								16.07%				16.67%	68.99%
(2070-2120)	Adaptive Management				_									6.25%			_		_	_		8.93%		_		0.00%	30.18%
	Advance the Line						15.00%							6.25%								7.14%				4.17%	32.56%

Table 4-32: Multi-variate Option Assessment for CMU 6.3: St Brelade's Bay

CMU6	.4: Ouaisne Bay			D	efer	nce					C	omi	nun	ity				Е	nvi	roni	men	t			Eco	onomy	
Epoch	Policy Option	Erosion Risk	Floood Risk	Relative Cost	Maintenance	Technical Feasibility	Defence Score %	Community Acceptance	Stakeholder Objectives		Coastal Access	Travel Infrastructure	Health and Wellbeing	Community Score %	Ecology and Geology	Heritage	Landscape	Coastal Processes	Water Quality	Natural Resources	Carbon Emissions	Environment Score %	Opportunity	Business Environment	Other Infrastructure	Economy Score %	Overall Score %
	No Active Intervention	<u> </u>	3	0	0	0	22.50%	9	9	<u></u>	9	3	0	8.33%	0	3	0	0	0	<u></u>	2	12.50%	9	9	0	4.17%	47.50%
Epoch 1	Maintain the Defence Line									0				22.92%				0				16.07%				8.33%	64.82%
Present Day (2020-2040)	Adaptive Management						15.00%							16.67%								7.14%				4.17%	42.98%
(=======,	Advance the Line						12.50%							6.25%								3.57%				4.17%	26.49%
	No Active Intervention	<u></u>		0			22.50%	9			<u> </u>	2		8.33%	0		0					12.50%		3		4.17%	47.50%
Epoch 2														22.92%	0							16.07%	0			8.33%	64.82%
Medium Term	Adaptive Management								_	0	0			16.67%			_		_		<u> </u>	7.14%	0	_		4.17%	42.98%
(2040-2070)						<u>)</u>	12.50%			0	0	0	<u> </u>	6.25%	0			<u> </u>	_	_	<u> </u>	3.57%		_		4.17%	26.49%
Epoch 3							22.50%						0	8.33%					_		_	12.50%				4.17%	47.50%
Long Term)) (_					0	22.92%	0				0			16.07%		_	0	8.33%	64.82%
(2070-2120)												0		16.67%			<u> </u>			_		7.14%		_		4.17%	42.98%
	Advance the Line						12.50%							6.25%								3.57%				4.17%	26.49%

Table 4-33: Multi-variate Option Assessment for CMU 6.4: Ouaisne Bay

CMU6.5: La	Cotte de St Brelade			D	efer	nce					Co	omn	nuni	ty				E	nvir	onr	nen	t			Eco	nomy	
Epoch	Policy Option	Erosion Risk	Floood Risk	Relative Cost	Maintenance	-	Defence Score %	Community Acceptance	Stakeholder Objectives	Social Responsibility	Coastal Access	Travel Infrastructure	Health and Wellbeing	Community Score %	Ecology and Geology	Heritage	Landscape	Coastal Processes	Water Quality	Natural Resources	Carbon Emissions	Environment Score %	Opportunity	Business Environment	Other Infrastructure	Economy Score %	Overall Score %
Epoch 1	No Active Intervention	0	0	0		0	22.50%		0		0	0	0	14.58%	0	0	0	0				14.29%	3	3		4.17%	55.54%
Present Day	Adaptive Management					<u></u>	17.50%							8.33%				<u> </u>				5.36%				8.33%	39.52%
(2020-2040)	Advance the Line						12.50%			()				8.33%		()						3.57%		()		4.17%	28.57%
Epoch 2	No Active Intervention	0	0	0			22.50%				0	0	0	14.58%		0	0	0				14.29%	9	3		4.17%	55.54%
	Adaptive Management			<u> </u>			17.50%							8.33%								5.36%				8.33%	39.52%
(2040-2070)	Advance the Line						12.50%	S						8.33%								3.57%	.			4.17%	28.57%
Epoch 3	No Active Intervention	0	0				22.50%	0	0	<u></u>	0	0	0	14.58%	O							14.29%	2	3		4.17%	55.54%
Long Term	Adaptive Management			0						0	0		0	8.33%								5.36%				8.33%	39.52%
(2070-2120)	Advance the Line	0	0		0	<u> </u>	12.50%		_		0	0	_		0	0	0	0		_	0	3.57%	_	_	0	4.17%	28.57%

Table 4-34: Multi-variate Option Assessment for CMU 6.5: La Cotte de St Brelade

CMU6.6:	Portelet Common			D	efer	nce					Co	omn	nuni	ty				Е	nvir	onr	nen	t			Ecc	nomy	
Epoch	Policy Option	Erosion Risk	Floood Risk	Relative Cost	Maintenance	-	Defence Score %	Community Acceptance	Stakeholder Objectives	Social Responsibility	Coastal Access	Travel Infrastructure	Health and Wellbeing	Community Score %	Ecology and Geology	Heritage	Landscape	Coastal Processes	Water Quality	Natural Resources	Carbon Emissions	Environment Score %	Opportunity	Business Environment	Other Infrastructure	Economy Score %	Overall Score %
Epoch 1	No Active Intervention	0				0	22.50%						0	14.58%								16.07%		9		4.17%	57.32%
Present Day	Adaptive Management						15.00%							10.42%								7.14%				4.17%	36.73%
(2020-2040)	Advance the Line						12.50%		()	()				6.25%	()					(5.36%				4.17%	28.27%
Epoch 2	No Active Intervention	0			0		22.50%		0		0		0	14.58%	0	O	0	O				16.07%	3	9	0	4.17%	57.32%
	Adaptive Management			0	.	()	15.00%	9	()	0			0	10.42%	()	0		<u> </u>				7.14%	<u> </u>			4.17%	36.73%
(2040-2070)	Advance the Line						12.50%							6.25%								5.36%				4.17%	28.27%
Epoch 3	No Active Intervention	0					22.50%	0	0	<u></u>	0	0	0	14.58%			0					16.07%	3	3		4.17%	57.32%
Long Term	Adaptive Management) (0					0	0		0	10.42%) () (7.14%				4.17%	36.73%
(2070-2120)	Advance the Line	_		0	0	<u> </u>	12.50%		_		<u></u>		-		<u> </u>		0			_	<u> </u>	5.36%				4.17%	28.27%

Table 4-35: Multi-variate Option Assessment for CMU 6.6: Portelet Common

CMU6.7	: Portelet Beach			D	efer	nce					Co	mn	nuni	ty			-	Е	nvir	onr	nen	t			Ecc	nomy	
Epoch	Policy Option	Erosion Risk	Floood Risk	Relative Cost	Maintenance	Technical Feasibility	Defence Score %	Community Acceptance	Stakeholder Objectives	Social Responsibility	Coastal Access	Travel Infrastructure	Health and Wellbeing	Community Score %	Ecology and Geology	Heritage	Landscape	Coastal Processes	Water Quality	Natural Resources	Carbon Emissions	Environment Score %	Opportunity	Business Environment	Other Infrastructure	Economy Score %	Overall Score %
Epoch 1	No Active Intervention	0	0	0	0	0	22.50%				0			14.58%	0	0	0					16.07%	9	3		4.17%	57.32%
Present Day	Adaptive Management					<u></u>	17.50%		O					14.58%								7.14%				4.17%	43.39%
(2020-2040)	Advance the Line						12.50%		(6.25%								5.36%				8.33%	32.44%
Epoch 2	No Active Intervention	2	0	0	0		20.00%	0	0	O		0	9	12.50%	0		0			0		16.07%	3	3		4.17%	52.74%
	Adaptive Management				.	0	17.50%		0					14.58%		<u> </u>		<u> </u>		<u> </u>	<u> </u>	7.14%	9	(4.17%	43.39%
(2040-2070)	Advance the Line						12.50%			<u> </u>				6.25%						0		5.36%				8.33%	32.44%
Epoch 3	No Active Intervention	2	0	0			20.00%		0				9	12.50%								16.07%	2	3	0	4.17%	52.74%
Long Term	Adaptive Management								0					14.58%							0	7.14%				4.17%	43.39%
(2070-2120)	Advance the Line	_						_	_	_												5.36%	_	_		8.33%	32.44%

Table 4-36: Multi-variate Option Assessment for CMU 6.7: Portelet Beach