

MANAGEMENT UNIT No. 2/3**Tenby Coast to Saundersfoot**

From	Tenby Coast (First Point)	213500E	201300N
To	Saundersfoot (South of Harbour)	213800E	204500N
Approximate Length	4.4Km		

PART A Objectives, Issues and Statutory Details**A.1 ISSUES (For further detail on this section refer to the Consultation Responses Report)**

The following specific issues were raised during Consultation with regard to the on-going provision of coastal defence within this management unit :

Coastal Processes

- CP1 Monitoring foreshore behaviour
- CP2 Shingle Storm Beach Behaviour
- CP5 Effects on cliff stability
- CP8 Sediment movement in Carmarthen Bay and associated interactions
- CP9 Sea level rise and increased storminess

Natural Environment

- NE1 Avoid adverse impacts on designated and non-designated environmental areas
- NE3 Water Quality
- NE4 Concerns regarding pollution - oil spills

Human and Built Environment

- HB1 Public safety
- HB2 Public access to the foreshore
- HB3 Coastal paths/pedestrian access around the shoreline
- HB4 Fisheries interests
- HB7 Preservation of historic environment
- HB10 Balance between traditional and green tourism
- HB11 Importance of recreational use of foreshore and contribution to local economies

Coastal Defence

- CD1 Identification of opportunities for managed retreat
- CD2 Cliff erosion
- CD8 Private sea defences

Development

- D1 Management of demand for development with conservation and landscape interests
- D3 Preservation/enhancement of landscape values

Management Unit No. 2/3**Tenby Coast to Saundersfoot****A.2 STATUTORY PLANNING POLICIES (For further detail on this section refer to Appendix A)**

The Pembrokeshire Coast National Park Authority is the Planning Authority for this management unit

General Stage 1 Advice : There is a presumption against development that would adversely affect the designated, natural and historic environment.

The following Structure/Local/Unitary Development plan policies (Appendix A) have been identified by the planning authority with regard to the provision of coastal defences in the area.

UNP4; UNP5; RNP6; ENP8; ENP11; UNP9; NNP2; NNP3

A.3 CONSERVATION DESIGNATIONS (For further detail on this section refer to the Data Context Report)

This management unit is within the following statutory designated areas of conservation :

R SSSI Tenby Coast (GCR)

The following non-statutory designated areas of conservation are located within this unit :

R Principal Bird Colony - Monkstone Point

A.4 LAND OWNERSHIP / OCCUPATION INTERESTS (APPENDIX B)

R Unknown

A.5 COASTAL DEFENCES (For further detail on this section refer to the Data Context Report)

The following coastal defences presently exist within this management unit :

Defence Code	LOCATION	Length (km)	Start / Finish Co-ordinates		Existing Defence Types	Min. Res. Life	Worst Condition	Maintenance Responsibility
W.26.5270	Monkstone	2.5	SN 1347/0127	SN 1480/0322	Hard Rock Shore			No Data
W.26.5275	Rhode Wood Cliffs	1.54	SN 1480/0322	SN 1382/0434	Hard Rock Shore			No Data

A.6 OBJECTIVES

The following objectives as defined in Section 2 of the Plan are relevant to this management unit :

1/2, 1/3, 1/5, 1/6, 1/8

PART B Intervention Appraisal**B.1 SHORELINE DESCRIPTION**

B.1.1 Land Use : Natural cliffed shoreline with high environmental value and a principal bird colony at Monkstone Point

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B.1.2 Specific Shoreline Interests : Bird colony/Bird watching, walking and general environmental interest.

B.2 SHORELINE EVOLUTION

This section of coast has a south easterly aspect between Tenby and Monkstone Point and faces generally north east between Monkstone Point and Saundersfoot. The coastline comprises high cliffs of Coal Measures which are slowly eroding.

B.3 PRELIMINARY ECONOMIC ASSESSMENT

B.3.1 Assets at Risk : The basis for evaluation of losses within the management unit would be ongoing cliff erosion resulting from increased exposure at the cliff toe.

TANGIBLE BENEFITS	T / X	INTANGIBLE BENEFITS	T / X
Property Loss		Environmental Losses	T
Infrastructure Loss		Tourism	
Land Loss		Social Effects	
Property Flooding		Historic Environment Losses	T
Land Flooding			
Transport Disruption			
Recreation Losses			

The following factors affect the evaluation of benefits within this management unit :

- R Sea level rise and increase in storminess.
- R Storm beaches at certain locations

Preliminary Value of Assets at Risk : Intangible assets associated with the Natural Environment.

B.3.2 Cost Implications : The cost of protecting a significant length of natural cliff shore would be very high could not be justified under current funding arrangements. Protecting the coastline would damage the natural assets and would therefore be a self defeating exercise. Cost estimates for hold and advance the line options have therefore not been examined.

B.3.3 Economic Viability : Major civil engineering works to either hold or advance the line would not be economically viable and, as indicated above, would damage the natural environment. Do nothing or retreat are likely to be the only economically viable options for the foreseeable future.

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	DO-NOTHING	HOLD THE EXISTING LINE	ADVANCE THE EXISTING LINE	RETREAT
EFFECTS ON COASTAL PROCESSES	Little or no change to present trend	Changes to local regime likely. Extent of impact would need to be determined by study	Significant shore and near shore changes would result. Extent to be determined by study	Little change from present trend
EFFECTS ON NATURAL ENVIRONMENT	Natural erosion may periodically effect natural environment.	Would produce net damage to natural environment. Change landscape	Considerable damage potential which would need to be assessed with EIA. Change to landscape	Little effect apart from localised losses at cliff fall locations
EFFECTS ON HUMAN & BUILT ENVIRONMENT	None	May improve access to coastline	would improve access to the coastline	Little impact
EFFECTS ON DEVELOPMENT & LAND USE	None	Increase development potential if appropriate	Increase development potential if appropriate	limit development potential
IMPLICATIONS FOR COASTAL DEFENCES	None	Major civil engineering works required	Major civil engineering works required	Existing natural cliff defence will slowly erode.
EFFECTS ON ADJACENT M.U.'S	No anticipate change	Effect sediment regime within MU which is likely to impact upon adjacent units	Effect sediment regime within MU which is likely to impact upon adjacent units	Little change
EFFECTS OF SEA LEVEL RISE & INCREASED STORMINESS	Rate of erosion would increase	Increase construction scope	Increase in construction to take account of increased wave impacts	Rate of erosion would increase.
CONCORDANCE WITH OBJECTIVES	Generally yes	Not 1/2	Not 1/2, 1/6	Yes
OPPORTUNITIES FOR ENVIRONMENTAL ENHANCEMENT	Limited/No change	None	None	No change form existing
ECONOMIC VIABILITY	Viable	Not viable	Not viable	Viable
GENERAL COMMENT ON POLICY SUITABILITY	Suitable.	Not suitable.	Not suitable.	Suitable.
SUSTAINABILITY				
Social	Yes	No	No	Yes
Economic	Yes	No	No	Yes
Environmental	Yes	No	No	Yes

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Anticipated Long Term : Do nothing**C.2.3 Uncertainties / Dependencies :** Cliff recession rates; sea level rise and increased storminess**C.2.4 Further Studies :** S1, S3, S4, S7, S8, S14, L6 (Ref. Section 5.3)**C.2.5 Future Monitoring :** M1, M2, M4, M6 (Ref. Section 5.2)**C.2.6 Intervention Priority :** None - monitor only**C.3 PREFERRED POLICY ISSUES (For issue detail refer to Section A.1)****C.3.1 Generic Issues****C.3.1.1 Coastal Processes :** CP1, CP2, CP5, CP9**C.3.1.2 Natural Environment :** NE1, NE3, NE4**C.3.1.3 Human and Built Environment :** HB2, HB3**C.3.1.4 Coastal Defence :** CD1, CD2**C.3.1.5 Development :** No specific issue**C.3.2 Specific Issues****C.3.2.1 Safety :** To incorporate issues relating to public safety and the intertidal zone which is used as part (option) of Pembrokeshire Coast Path route**C.3.2.2 Access :** See safety above - also note access/pathway (s) onto foreshore from cliff tops.**C.3.2.3 Industrial Activities :** No specific issues identified.**C.3.2.4 Human Pressures :** No specific issues identified.**C.3.2.5 Tourism / Recreation :** To maintain cliff top coast path route and access from caravan sites to beach.

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The Preferred Policy Accords with the objectives for this management unit.

- 1/2 Link with measurements undertaken within monitoring system (Refer to Section 5).
- 1/3 Accommodation of required monitoring within strategic and local system (Refer to Section 5).
- 1/5 Liaison with Planning Authority.
- 1/6 Liaison with relevant conservation bodies.
- 1/8 Liaison with Planning Authority.