



## 7 ACTION PLAN

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|----------------------|--|
| Document title       | Poole and Christchurch Bays Shoreline<br>Management Plan Review Sub-cell 5f<br>Hurst Spit to Durlston Head |
| Document short title | Section 7  |
| Status               | Report V3  |
| Date                 | 2011   |
| Project name         | Poole and Christchurch Bays SMP2   |
| Project number       | 9T2052   |
| Client               | Bournemouth Borough Council  |
| Reference            | 9T2052   |



This section includes the summary action plan for the Poole and Christchurch Bays SMP.

This action plan is a very important element of the SMP, and particularly for the Poole and Christchurch Bays SMP. The plan has identified that there are a number of important uncertainties and that we need to improve our understanding to support firmer policy decisions in the next SMP and beyond.

As indicated in Section 1 the intent is to continue the partnership approach through which we have developed this SMP, at the level of elected members, officers and stakeholders, to be linked with the existing coastal group. By organising regular progress meetings, this ongoing partnership can actively monitor and drive the progress of the action plan. This will enable an ongoing process of shoreline management in the coming years, in the run-up to the next SMP in five to ten years time.

The action plan summarises all the specific actions that are needed to implement the plan and the policies. This includes actions by the Environment Agency and local authorities to develop flood and erosion risk management strategies and schemes. It also includes actions for the other partner authorities, for example to incorporate the plan into the land use planning system or support adaptation of affected people, businesses and organisations. A specific element for the Poole and Christchurch SMP action plan concerns the monitoring and studies needed to confirm and support firmer decisions in the next SMP about the potential intended for managed realignments for the medium and long term.

As indicated in Section 1, implementing SMP policies will depend on funding being available. This is not only the case for building and maintaining flood defences, but also for all the other actions needed to implement the plan. This funding may be available from the national flood and coastal erosion risk management budget, but it could also come from other national sources or from local and/or third-party funding.



**SMP wide Actions**

| Action Reference | Works Required   | Responsibility                              | Priority | Target Start Date | Actual Start Date | Completion Date | Action Status (N/O/C) <sup>1</sup> |
|------------------|--|---|----------|-------------------|-------------------|-----------------|------------------------------------|
| 0.1              | Implementation of SMP policies and actions through continuation of CSG and EMF   | Environment Agency with all partners        | High     | 2010 - 2015       |                   |                 | O                                  |
| 0.2              | Continue consultation with key stakeholders and general public in the period up to SMP3; (progress the action plan; convey messages around flood and erosion risk, potential coastal change and maintain the stakeholder engagement list). | Environment Agency with all partners        | High     | 2010 - 2015       |                   |                 | O                                  |
| 0.3              | Ensure that local and regional development and planning documents take account of SMP policies and flood and erosion risks   | Planning authorities and Environment Agency | High     | 2010 - 2015       |                   |                 | O                                  |
| 0.4              | Development, monitoring and review of emergency response plans to prepare for extreme events that exceed standard.   | Local Resilience Forums                     | High     | 2010 - 2015       |                   |                 | O                                  |
| 0.5              | Continue with improvements to flood risk maps and inundation modelling to provide improved flood warning service.  | Environment Agency                          | High     | 2010 - 2015       |                   |                 | O                                  |

<sup>1</sup> N = not yet commenced, O = ongoing, C = complete.

| Action Reference | Works Required   | Responsibility                                       | Priority | Target Start Date       | Actual Start Date | Completion Date | Action Status (N/O/C) <sup>1</sup> |
|------------------|--|--|----------|-------------------------|-------------------|-----------------|------------------------------------|
| 0.6              | Poole & Christchurch Bays SMP3.<br>There may be a case for promoting an integrated Flood Risk Management plan (coastal and fluvial), combining the SMP with the CFMPs.                         | Environment Agency with all partners                 | High     | 2015 - 2020             |                   |                 | N                                  |
| 0.7              | Upgrade/update of Rapid Coastal Zone Assessment Survey (RCZSA)   | English Heritage                                     | Medium   | To inform SMP3          |                   |                 | N                                  |
| 0.8              | Continuation of Strategic Regional Shoreline Monitoring Programme.   | New Forest District Council                          | High     | 2010                    |                   |                 | O                                  |
| 0.9              | Continued management of defences.  | Environment Agency, Local Authority                  | High     | 2010                    |                   |                 | N                                  |
| 0.10             | Further investigations to identify potential sites to recreate compensatory intertidal habitat and obstacles that may need to be overcome.   | Natural England, Environment Agency, Local Authority | High     | ASAP to inform Strategy |                   |                 | N                                  |
| 0.11             | Further investigation into compensatory requirements needed as a result of managed realignment option resulting in an adverse effect on terrestrial SPA and SACs e.g. heathland and grassland. | Natural England, Environment Agency, Local Authority | High     | ASAP to inform Strategy |                   |                 | N                                  |

| Action Reference | Works Required   | Responsibility  | Priority | Target Start Date       | Actual Start Date | Completion Date | Action Status (N/O/C) <sup>1</sup> |
|------------------|--|---|----------|-------------------------|-------------------|-----------------|------------------------------------|
| 0.12             | A review of all HER data to ensure that it has correctly captured the important issues for consideration during scheme development. During the development of the SMP2 it became apparent that the detail was not always available and therefore it was difficult to assess impacts. Additional information for the Strategy will be required, especially for Managed Realignment schemes and areas that will have No Active Intervention. | English Heritage, Environment Agency, Local Authority | Medium   | ASAP to inform Strategy |                   |                 | N                                  |
| 0.13             | Regionwide sediment transport studies to fill gaps and uncertainties identified in SMP2, (in particular Poole Bay and Hurst Spit) in partnership with SMPs for North Solent and Isle of Wight  | NFDC on behalf of Southern Coastal Group members      | High     | 2012                    |                   |                 | N                                  |
| 0.14             | Review of the boundaries between the SMP and CFMP. At the end of the SMP it was identified that there are small gaps within GIS layers but the polices link up well.   | Environment Agency                                    | Medium   | 2010                    |                   |                 | O                                  |

| Action Reference | Works Required   | Responsibility                                   | Priority | Target Start Date | Actual Start Date | Completion Date | Action Status (N/O/C) <sup>1</sup> |
|------------------|--|--|----------|-------------------|-------------------|-----------------|------------------------------------|
| 0.15             | Investigate the requirement of joint funding in certain areas with a view to gain additional funding in line with the SMP recommendations  | Southern Coastal Group members                   | High     | 2010              |                   |                 | N                                  |
| 0.16             | Regionwide wave climate risk studies to identify impacts of bimodal wave period conditions on design risk of all structures and beach systems; to include assessment of overtopping and breach potential. Based on uncertainties identified in SMP2 and SCOPAC studies, in partnership with SMPs for North Solent and Isle of Wight. | NFDC on behalf of Southern Coastal Group members | High     | 2011              |                   |                 | N                                  |
| 0.17             | Regionwide improvements to historical coastal evolution studies to identify impacts of coastal change based on aerial surveys. Based on uncertainties identified in SMP2 (notably western part of SMP cell) and, in partnership with SMPs for North Solent and Isle of Wight.  | NFDC on behalf of Southern Coastal Group members | Medium   | 2014              |                   |                 | N                                  |



| Action Reference | Works Required  | Responsibility                 | Priority  | Target Start Date | Actual Start Date | Completion Date | Action Status (N/O/C) <sup>1</sup> |
|------------------|---|--------------------------------|---|-------------------|-------------------|-----------------|------------------------------------|
| 0.18             | Review the distinction and links between landslip and erosion. May need to reconsider proposals for slope stabilisation where toe erosion is the trigger once the guidance is adopted nationally.   | Environment Agency             | High  | Inform Strategies |                   |                 | N                                  |
| 0.19             | Comprehensive monitoring programme for cliff top erosion  | Southern Coastal Group members | High to Medium (some areas more urgent than others) | 2010              |                   |                 | N/O                                |
| 0.20             | Ensure that local and regional development and planning documents take account of SMP policies and flood and erosion risks. Link to Local Authorities LDF Planning Policy which will set out the Council's approach to Coastal Change Management Areas (CCMAs). | Operating Authorities          | High  | 2010              |                   |                 | O                                  |

**PDZ1 Central and Eastern Sections of Christchurch Bay**

| Action Reference  | Works Required   | Responsibility                                     | Priority | Target Start Date | Actual Start Date | Completion Date | Action Status (N/O/C) <sup>2</sup> |
|---|--|--|----------|-------------------|-------------------|-----------------|------------------------------------|
| <b>Actions Required for Short Term Policy</b>   |  |  |          |                   |                   |                 |                                    |
| 1.1   | Continued management of defences. Production of System Asset Management Plans to deliver HTL policy for Epoch 1. Maintenance and refurbishment as required.                          | Environment Agency and New Forest District Council | High     | 2010              |                   |                 | N                                  |
| 1.2   | Production of strategy study to deliver MR policy for Epoch 1 along Barton-on-Sea frontage.  | New Forest District Council                        | High     | 2010              |                   |                 | N                                  |
| 1.3   | Develop the Christchurch Bay Strategy  | New Forest District Council                        | Medium   | 2011              |                   |                 | N                                  |
| <b>Studies / strategies Required to Inform Intended Medium-Term Management Policies</b> |  |  |          |                   |                   |                 |                                    |
| 1.4   | Strategy study into realignment for Epochs 2 / 3, including technical (defence sustainability), economic, social and environmental aspects at both Milford-on-Sea and Barton-on-Sea. | New Forest District Council                        | Medium   | To inform SMP3    |                   |                 | N                                  |
| 1.5   | Integrated flood risk management strategy (coastal and fluvial). This may be replaced by an integrated SMP / CFMP level Flood Risk Management Plan.                                  | Environment Agency                                 | Medium   | 2012              |                   |                 | N                                  |

<sup>2</sup> N = not yet commenced, O = ongoing, C = complete.

| Action Reference  | Works Required  | Responsibility                       | Priority | Target Start Date | Actual Start Date | Completion Date | Action Status (N/O/C) <sup>2</sup> |
|---|---|--------------------------------------|----------|-------------------|-------------------|-----------------|------------------------------------|
| 1.6   | Policy study to determine role and management of secondary defences. This will require joint working, involving the Environment Agency and Local Authority planners. The aim will be to determine their impact and desired role, to inform flood risk management and land use planning. | Environment Agency/Local Authorities | Medium   | 2012              |                   |                 | N                                  |
| 1.7   | Study to reduce uncertainty of predictions of offshore bank development. This will be informed by monitoring.   | Environment Agency                   | High     | To inform SMP3    |                   |                 | N                                  |
| <b>Monitoring Required to Fulfil Medium-Term Policy Studies</b> |   |                                      |          |                   |                   |                 |                                    |
| 1.8   | Continue / increase monitoring of saltmarsh and mudflat areas. This needs to inform understanding of the intertidal areas' flood defence function, the sustainability of the earth embankments, and its habitat function. To be integrated with Regional Habitat Creation Programme.    | Environment Agency, Natural England  | High     | Start ASAP        |                   |                 | N                                  |
| 1.9   | Monitoring to ensure that the intertidal development trends are consistent with assumptions made in the SMP. This will be aided by the ongoing monitoring.  | Environment Agency, Local Authority  | High     | Start asap        |                   |                 | N                                  |

**PDZ2 Christchurch Harbour and Central Poole Bay**

| Action Reference                              | Works Required  | Responsibility   | Priority | Target Start Date | Actual Start Date | Completion Date | Action Status (N/O/C) <sup>3</sup> |
|---|---|--|----------|-------------------|-------------------|-----------------|------------------------------------|
| <b>Actions Required for Short Term Policy</b> |   |  |          |                   |                   |                 |                                    |
| 2.1   | Consider the replacement of the Bournemouth timber groyne field   | Bournemouth Borough Council  | High     | 2010              |                   |                 | O                                  |
| 2.2   | Consider the start of BIS5, to follow on from BIS4  | Bournemouth Borough Council  | High     | 2010              |                   |                 | N                                  |
| 2.3   | Develop collaborative approach to achieve HTL policy for Epochs 1 & 2, leading to ATL in Epoch 3 along the Poole Bay frontage. This will be captured in the Strategy Study currently commissioned by the Environment Agency.  | Bournemouth Borough Council, Borough of Poole, Environment Agency.                 | High     | 2010              | January 2010      |                 |                                    |
| 2.4   | Develop the approach to managed realignment at Solent Beach & Double Dykes. This will need to focus on changing the pressures of the coastline in this area and consider the SSSI and SAC/SPA. This will be captured in the Strategy Study currently commissioned by the Environment Agency | Bournemouth Borough Council, Environment Agency, Natural England, English Heritage | High     | 2010              | January 2010      |                 |                                    |
| 2.5   | Investigate design options for the refurbishment of the Hengistbury Head Long Groyne and consider the   | Bournemouth Borough Council, Environment Agency, Natural                           | High     | 2010              | January 2010      |                 | N                                  |

<sup>3</sup> N = not yet commenced, O = ongoing, C = complete.

| Action Reference  | Works Required  | Responsibility   | Priority | Target Start Date | Actual Start Date | Completion Date | Action Status (N/O/C) <sup>3</sup> |
|---|---|--|----------|-------------------|-------------------|-----------------|------------------------------------|
|   | impact on Christchurch Harbour SSSI. This is will be captured in the Strategy Study currently commissioned by the Environment Agency  | England  |          |                   |                   |                 |                                    |
| 2.6   | Commission study to look at the joint tidal and fluvial risk in Christchurch and how that is managed to deliver the HTL policy to the town centre and supporting communities. This will need to consider the impacts on Christchurch Harbour SSSI   | Christchurch Borough Council, Environment Agency, Natural England                  | High     | 2010              |                   |                 | N                                  |
| 2.7   | Commission a study to look at the historic landfill site at Wick  | Bournemouth Borough Council  |          |                   |                   |                 | N                                  |
| <b>Studies / strategies Required to Inform Intended Medium-Term Management Policies</b> |   |  |          |                   |                   |                 |                                    |
| 2.8   | Continue the collaborative approach to develop a strategy for the management of the defences in Epochs 2 and 3. The plan, and the timing, location and extent of any changes, will need to achieve the best balance between all the socio-economic and environmental constraints and opportunities. There may be a need for an independent study to investigate ATL options | Bournemouth Borough Council, Borough of Poole, Environment Agency, Natural England | High     | Start asap        | January 2010      |                 |                                    |

| Action Reference  | Works Required  | Responsibility  | Priority | Target Start Date | Actual Start Date | Completion Date | Action Status (N/O/C) <sup>3</sup> |
|---|---|---|----------|-------------------|-------------------|-----------------|------------------------------------|
|   | (including impacts on sediment movement) for Epoch 3 along Poole Bay.   |   |          |                   |                   |                 |                                    |
| 2.9   | Incorporate any changes in land use planning.   | Local Authority   | High     | Start asap        |                   |                 | N                                  |
| <b>Monitoring Required to Fulfil Medium-Term Policy Studies</b> |   |   |          |                   |                   |                 |                                    |
| 2.10  | Monitor the beach re-nourishment programme to inform environmental studies and public concerns  | Bournemouth Borough Council   | High     | 2010              |                   |                 | O                                  |
| 2.11  | Investigate future beach material sources and PSD   | Bournemouth Borough Council   | Medium   | 2010              |                   |                 | N                                  |
| 2.12  | Monitoring to ensure that the processes at Mudeford Spit are consistent with assumptions made in the SMP2. This will be aided by ongoing monitoring | Environment Agency with collaboration with Natural England and Local Authority              | High     | Start asap        |                   |                 | N                                  |
| 2.13  | Contamination monitoring programme at Stanpit Marshes and Mudeford Quay.  | Environment Agency with collaboration with Natural England and Christchurch Borough Council | 2010     | To inform SMP3    |                   |                 | N                                  |
| 2.14  | Continue with monitoring programme at Boscombe surf reef (20 year life).  | Bournemouth Borough Council   | 2010     | Start ASAP        |                   |                 | O                                  |
| 2.15  | Contamination monitoring programme at Wick.   | Local Authority, Environment Agency   | Medium   | To inform SMP3    |                   |                 | N                                  |

**PDZ3 Poole Harbour and Associated Coastline**

| Action Reference                              | Works Required   | Responsibility   | Priority | Target Start Date               | Actual Start Date | Completion Date | Action Status (N/O/C) <sup>4</sup> |
|---|--|--|----------|---------------------------------|-------------------|-----------------|------------------------------------|
| <b>Actions Required for Short Term Policy</b> |  |  |          |                                 |                   |                 |                                    |
| 3.1   | Develop the managed realignment of the tide banks around Wareham and potential impacts. Develop the tidal /fluvial aspects on the River Frome and the flood risk to Stoborough. Develop the tidal /fluvial aspects on the River Sherford and the flood risk to Lytchett Minster and Upton. This will be captured in the Strategy Study currently commissioned by the Environment Agency. | Environment Agency with collaboration with Natural England and Local Authority         | High     | ASAP - to inform Strategy Study | January 2010      |                 |                                    |
| 3.2   | Liaison with private landowners at locations where the frontline sea bank is private to enable the defence to be maintained in Epoch 1   | Environment Agency and private landowners  | High     | 2010                            | January 2010      |                 |                                    |
| 3.3   | Management intent to be agreed at Brownsea Island, including Brownsea Lagoon and the historic infrastructure   | Local Authority, National Trust, Natural England, English Heritage, Environment Agency | High     | 2010                            | January 2010      |                 |                                    |

<sup>4</sup> N = not yet commenced, O = ongoing, C = complete.

| Action Reference  | Works Required  | Responsibility  | Priority | Target Start Date               | Actual Start Date | Completion Date | Action Status (N/O/C) <sup>4</sup> |
|---|---|---|----------|---------------------------------|-------------------|-----------------|------------------------------------|
| 3.4   | Management intent at Studland to be agreed. This must consider National Trust proposal to relocate services.  | National Trust, Natural England, Purbeck District Council                         | High     | 2010                            |                   |                 | N                                  |
| <b>Studies / strategies Required to Inform Intended Medium-Term Management Policies</b> |   |   |          |                                 |                   |                 |                                    |
| 3.5   | Study to reduce uncertainty with respect to the predictions of saltmarsh/mudflat development and to enable predictions of saltmarsh and mudflat loss/gain to be more accurate. This will need to tie into the Habitat Creation Programme and work with the North Solent. This will be informed by monitoring. | Environment Agency, Natural England, other partners                               | High     | ASAP - to inform Strategy Study |                   |                 | N                                  |
| 3.6   | Commission study to look at the joint tidal and fluvial risk in Poole Harbour and how that is managed to deliver the HTL policy to the town centre and supporting communities. This study also needs to investigate the impact with rainfall and the effects on the surface sewer network.                    | Borough of Poole  | High     | ASAP - to inform Strategy Study |                   |                 | N                                  |
| 3.7   | Assess the use of maintenance dredging from the harbour for beach replenishment and the implications on designated sites within Poole Harbour.  | Local Authority, Poole Harbour Commissioners, Environment Agency, Natural England | High     | ASAP - To inform Strategy Study |                   |                 | N                                  |



| Action Reference  | Works Required  | Responsibility   | Priority | Target Start Date | Actual Start Date | Completion Date | Action Status (N/O/C) <sup>4</sup> |
|---|---|--|----------|-------------------|-------------------|-----------------|------------------------------------|
| 3.8   | Study to look at growing salt marsh and reed beds within Whitley Lake as a possible solution for wave overtopping (and habitat creation)  | Environment Agency, Local Authority, Natural England                                   | Medium   | To inform SMP3    |                   |                 | N                                  |
| 3.9   | Assessment of the benefit of reed bed creation within Poole Park lake as compensation for losses within Poole Harbour (previous work has been done for water quality).  | Environment Agency, Local Authority, Natural England                                   | Medium   | To inform SMP3    |                   |                 | N                                  |
| 3.10  | Explore options to manage coastal change at Studland to maintain visitor infrastructure, access and enjoyment in an area that is subject to multiple designation and in a way that does not have significant impact on the special qualities (in the case of AONB) or features for which the site is designated (SSSI/SAC). | National Trust, Natural England, Purbeck District Council                              | Medium   | To inform SMP3    |                   |                 | N                                  |
| 3.11  | Development of an exit strategy for Brownsea Island Quay and Lagoon defences.   | National Trust, Local Authority, Environment Agency, Natural England, English Heritage | Medium   | To inform SMP3    |                   |                 | N                                  |
| <b>Monitoring Required to Fulfil Medium-Term Policy Studies</b> |   |  |          |                   |                   |                 |                                    |
| 3.11  | Monitoring of the Poole Frontage study to identify the efficiency of computer   | Local Authority, Environment Agency  | Medium   | To inform SMP3    |                   |                 | N                                  |

| Action Reference | Works Required  | Responsibility                                      | Priority | Target Start Date             | Actual Start Date | Completion Date | Action Status (N/O/C) <sup>4</sup> |
|------------------|---|---|----------|-------------------------------|-------------------|-----------------|------------------------------------|
|                  | based predictions against actual events.  |   |          |                               |                   |                 |                                    |
| 3.12             | SMP2 suggests a gradual change to a natural response of the shoreline at Ham Common/Rockley, because the current defence at Rockley does not have a major impact on processes. Investigate how defences will be allowed to fail at Ham Common during the Strategy Study to ensure that defence along the western stretch of the unit does not result in more rapid erosion of Ham common. | Local Authority, Natural England Environment Agency | Medium   | 2010 to inform Strategy Study |                   |                 | N                                  |
| 3.13             | Undertake monitoring programme at Holton Heath for potential contamination which may be at risk in future epochs.   | Local Authority, Environment Agency                 | Medium   | To inform SMP3                |                   |                 | N                                  |

**PDZ4 Swanage**

| Action Reference  | Works Required  | Responsibility                               | Priority | Target Start Date | Actual Start Date | Completion Date | Action Status (N/O/C) <sup>5</sup> |
|---|---|--|----------|-------------------|-------------------|-----------------|------------------------------------|
| <b>Actions Required for Short Term Policy</b>   |   |  |          |                   |                   |                 |                                    |
| 4.1   | Action on community coastal adaptation at Durlston Cliffs   | Purbeck District Council, Environment Agency | High     | 2010              |                   |                 | N                                  |
| <b>Studies / strategies Required to Inform Intended Medium-Term Management Policies</b> |   |  |          |                   |                   |                 |                                    |
| 4.2   | Communication strategy for coastal adaptation at North Beach, Swanage   | Purbeck District Council, Environment Agency | Medium   | To inform SMP3    |                   |                 | N                                  |
| 4.3   | Implement actions from the Peveril Point Study, including the removal of the old lookout and the failed defence associated with it. | Purbeck District Council, Environment Agency | Medium   |                   |                   |                 | N                                  |
| <b>Monitoring Required to Fulfil Medium-Term Policy Studies</b>                         |   |  |          |                   |                   |                 |                                    |
| 4.4   | Continued long-term background monitoring of erosion of the cliffs  | Purbeck District Council                     | High     | Continued         |                   |                 | N                                  |

<sup>5</sup> N = not yet commenced, O = ongoing, C = complete.