

Severn Estuary Shoreline Management Plan Review

The Shoreline Management Plan: Part C (Main Report) – Action Plan





Severn Estuary Shoreline Management Plan Review (SMP2)

Part C (Main Report): Action Plan

October 2010

Notice

This report was produced by Atkins Ltd for the Severn Estuary Coastal Group (SECG) for the specific purpose of Severn Estuary Shoreline Management Plan Review.

This report may not be used by any person other than the SECG without the SECGs express permission. In any event, Atkins accepts no liability for any costs, liabilities or losses arising as a result of the use of or reliance upon the contents of this report by any person other than the SECG.

Document History

JOB NUMBER: 5078599		DOCUMENT REF: 5078599/62/DG/16				
01	Draft for PMG Review	CW	KW	JMcC	RS	2 Sept 2009
02	Draft for LA Review	CW	KW	JMcC	RS	14 Jan 2010
03	Draft for QRG Review	SB	KW	JMcC	RS	8 June 2010
04	Final Draft for QRG Review	KW	JMcC	JMcC	RS	Sept 2010
05	Final	KW	PC	PC	RS	Dec 2010
Revision	Purpose Description	Originated	Checked	Reviewed	Authorised	Date

Compliance to the SMP2 Quality Review Group (QRG) Terms of Reference

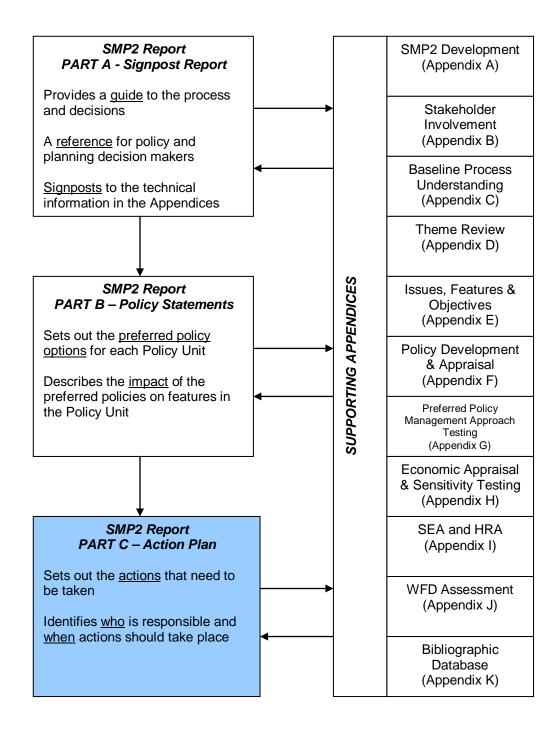
This part of the SMP 2 aims to meet the following objectives as set out by the Quality Review Group:

- The 4 Action Plan (AP) criteria (Technical, Social, Environmental, Administrative) will have been translated and clearly set out in the Action Plan.
- Funding requirements over the 1st epoch are translated into the Action Plan. (It is suggested that the 20 year MTP(Medium Term Planning) for each Operating Authority (OA) is combined and is appended to the Action Plan)
- The lead OA for co-ordinating the AP is clear and how they intend to monitor the delivery of actions addressed.
- What, why and at what cost in each case, covering a sufficient geographical area and has an owner and timetable for each action linked to the MTP process
- Connectivity to adjacent action plans is clear, together where there are likely cost savings in working with others
- Timetable for AP review is set out
- Linkages with the Coastal Groups, Coastal Forum, and other National Forum set out with reasons for these.
- Recommendations to others, e.g. Defra, CLG, etc are clearly set out, with actions and review dates.
- Details on links with the connectivity of national data sets are identified, e.g. NFCDD. voluntary

Contents

Sect	1011	Page
Comp	liance to the SMP2 Quality Review Group (QRG) Terms of Reference	v
PART	C – Action Plan	vii
1.	Introduction	1
1.1	Structure of the Action Plan	1
1.2	Development of the Action Plan	1
1.3	Links with the SEFRMS and other relevant plans	3
2.	Outstanding Actions from SMP1	6
3.	SMP2 Actions	11
Tabl	le s	
Table 2	2.1 - Outstanding actions from the SMP1	7
Table 3	3.1 - Overarching actions	14
Table 3	3.2 – Penarth (PEN)	17
Table 3	3.3 – Cardiff (CAR)	20
Table 3	3.4 – Wentlooge (WEN)	23
	3.5 - Newport & Usk (NEW)	29
	3.6 - Caldicot Levels (CALD)	36
	3.7 - Chepstow & Wye (WYE)	40
	3.8 - Tidenham & Surrounding Villages (TID)	43
	3.9 – Lydney (LYD)	45 46
	3.10 - Lydney to Gloucester (GLO)	46 56
	3.11 - Gloucester to Haw Bridge (MAI) 3.12 - Gloucester to Sharpness (SHAR)	68
	3.13 - Sharpness to Severn Crossings (SEV)	79
	3.14 - Severnside, Bristol & Avon (BRIS)	86
	3.15 - Portishead & Clevedon (PORT)	96
	3.16 - Kingston Seymour to Sand Bay (KIN)	98
	3.17 - The Holms (HOL)	102
Figu	res	
Figure	1.1 - SMP2 and SEFRMS study areas	4

PART C - Action Plan



1. Introduction

This Action Plan (AP) has been developed by the Severn Estuary Coastal Group (SECG). It forms PART C of the Severn Estuary Shoreline Management Plan Review (SMP2). It has the following aims:

- To set out the steps needed to put into practice the policies set out in the SMP2 (see SMP2 Report PART B – Policy Statements)
- To encourage the use of the SMP2 by planners and planning authorities when they
 develop their land use plans and when they make planning decisions
- To set out the monitoring and data collection needs to fill current gaps in knowledge
- To prioritise where actions are required, but it does not guarantee that funding is available
- To help the SECG in reviewing the progress of the SMP2 policies

Including an action in this Action Plan does not guarantee that funding is available for that action.

Funding for flood and erosion risk management measures comes from a range or organisations, including central government, local authorities, the Environment Agency and landowners; and from a range of funding 'pots'. Funding is limited and flood risk management projects compete for these limited funds. Sources of funding over and above existing sources are unlikely to be available for the actions contained in this Action Plan. This may mean it is not possible to fund all the actions and that prioritisation decisions will need to be made either jointly by the PMG or by individual partners.

The SECG feel that a strategic assessment of all the Action Plans for SMP2s in the Bristol Channel area should be undertaken to determine if it is possible for the different coastal groups to work together on common actions to ensure best value for money. A specific action has been developed for the matter to be raised at the *Bristol Channel Strategic Coastal Group* to see how the partners can work together to secure funding, prioritise aims and achieve best value for money for all SMP2 Action Plans within the Bristol Channel (see *Table 3.1*).

1.1 Structure of the Action Plan

The Action Plan is set out in three parts:

- Section 1 a brief description of the Action Plan, its aims, development and links to other important flood and erosion risk management plans
- Section 2 Outstanding Actions from SMP1
- Section 3 SMP2 Actions

1.2 Development of the Action Plan

The Action Plan has been developed by the whole SECG (all the local authorities, conservation authorities, Internal Drainage Boards, and Environment Agency regions around the Severn Estuary).

In order to make sure that the SMP2 and the Action Plan fit together with the planning system, planners and flood defence engineers from all the local authorities input directly to the development of the Action Plan.

The Action Plan also takes account of the feedback and comments raised during the consultation events that were held during the development of the SMP2 (see *Appendix B* for information on the stakeholder events, issues raised and how they have been taken into account).

It has been developed to help ensure that actions are taken to put into practice the SMP2 policies in the first epoch (0-20 years). Actions address planning and engineering issues.

The actions also aim to help lay the groundwork needed to put into practice the policies beyond the first epoch (20-50 years and 50-100 years). These actions include collecting data and information, research and engaging with stakeholder and communicating the complicated issues connected with coastal erosion and flood risk management.

1.2.1 Role of the Quality Review Group (QRG)

The Environment Agency and the Welsh Assembly Government (WAG) have established a Quality Review Group (QRG) to look at all the SMP2s and Action Plans produced around England and Wales to make sure they have been produced in a consistent way. The QRG is made up of technical experts from:

- Government Department for Environment, Food and Rural Affairs (Defra), Department of Communities and Local Government (DCLG), WAG
- Environment Agency (EA) and Environment Agency Wales (EAW)
- Local Authorities
- Countryside Council for Wales (CCW) or Natural England (NE)
- Royal Society for the Protection of Birds (RSPB)
- The private environmental consultancy industry

The QRG has identified a number of success criteria against which SMP2s will be assessed. These success criteria are grouped under five headings:

- Technical relating to the use of data and information, analytical techniques and the presentation of such information;
- Social the consideration of issues relating to stakeholder involvement, views and wishes, political guidance, adaptation and community resilience. This also considers short-term versus long-term issues;
- Environmental issues relating to environmental assessments, Strategic Environmental Assessment (SEA), EU Habitats Directives, habitat creation, Biodiversity Action Plans (BAPs) and environmental sites and features (e.g. SSSIs, historic environment, landscape designations);
- **Economic** relating to the use of economic data and its analysis;
- Administrative issues connected to the management of the plan preparation process, communication and engagement with partners and operating authorities.

The Action Plan has been developed with these five success criteria groups in mind. Each action has been labelled to show how it relates to these criteria.

1.3 Links with the SEFRMS and other relevant plans

1.3.1 The Severn Estuary Flood Risk Management Scheme (SEFRMS)

An important parallel and more detailed study taking place is the Flood Risk Management Strategy (SEFRMS). This started in February 2008. The SEFRMS was designed so that it could run in parallel and be linked to the development of the SMP2.

It is important to recognise the difference between the two projects:

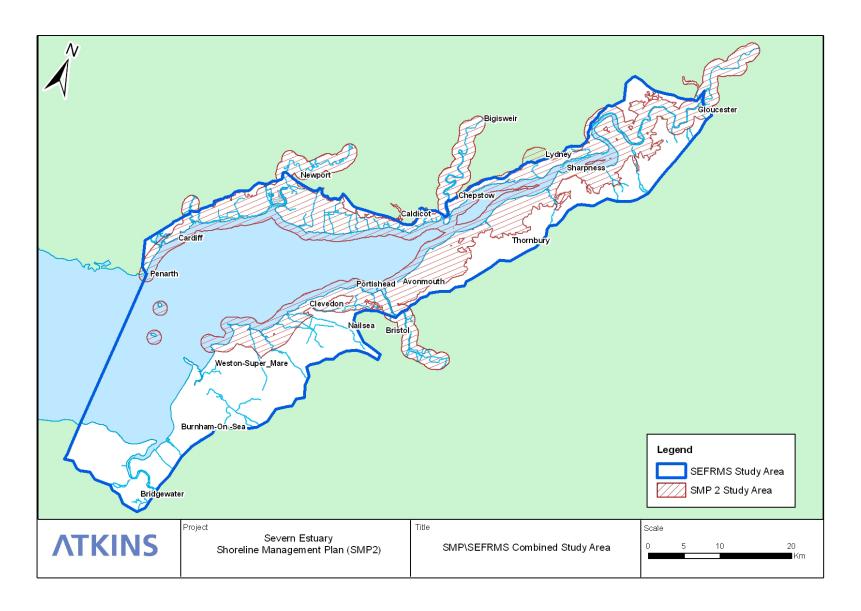
- The SMP2 has been developed by the SECG. The SMP2 is mainly for a <u>planning</u> <u>audience</u> people that develop land use plans, make planning decisions, policy makers and strategic flood risk managers. It provides a policy approach over specific timescales (the three epochs of 0-20, 20-50 and 50-100 years). It <u>does not</u> set out <u>how</u> policies should be implemented e.g. what shoreline defences should be built of.
- 2. The SEFRMS is an EA/EAW project. It has three main objectives:
 - To set out a 100-year investment plan for flood defences for the Environment
 Agency and local authorities it sets out the economic case for investment, where
 the line of the defence should be and the standard of protection of the defences
 - To prioritise <u>other flood risk management measures</u> e.g. providing advice to utility companies to protect critical infrastructure, providing advice to planners, providing flood warning
 - To decide <u>where new wildlife habitats around the shoreline should be created</u> to compensate for the loss of similar habitats due to sea level rise

The SMP2 area and the SEFRMS area overlap, but are not exactly the same. *Figure 1.1* shows the area covered by the SMP2 and the SEFRMS. Part of the SEFRMS area is covered by the *North Devon and Somerset SMP2 (NS&S SMP2)*.

The Action Plan clearly highlights which actions will be delivered through the SEFRMS (see actions table).

In SMP2 areas that are not covered by SEFRMS, the Action Plan clearly highlights how these actions should be delivered. This could be through other strategic plans (e.g. Catchment Flood Management Plans (CFMPs)), or specific actions by the SECG, members of the SECG or others.

Figure 1.1 - SMP2 and SEFRMS study areas



1.3.2 Other SMP2s

There are two SMP2s adjacent to the Severn Estuary SMP2:

- Swansea and Carmarthen Bays SMP2 to be completed in 2011 http://www.southwalescoast.org
- North Devon and Somerset SMP2 (ND&S SMP2) to be completed later in 2010 http://www.ndascag.org/SMP2.html

Both of these SMP2s are being undertaken on behalf of the relevant coastal groups by Halcrow Ltd.

The SECG will communicate actions to the adjacent Coastal Groups so that joint initiatives and cost saving actions can be identified. The Severn Estuary SMP2, ND&S SMP2 and Swansea and Carmarthen Bays SMP2 are all members of the *Bristol Channel Strategic Coastal Group*. This would be an appropriate group to co-ordinate joint initiatives between the three coastal groups.

The SECG will also continue to communicate with other Coastal Groups through the Coastal Groups Chairs' Meetings and other coastal fora to share best practice and lessons learned.

1.3.3 Catchment Flood Management Plans (CFMPs)

The Severn Estuary SMP2 area meets or slightly overlaps with all the *Catchment Flood Management Plans (CFMPs)* around the Severn Estuary. Each CFMP has an Action Plan. These have been reviewed as part of the development of this SMP2.

Some of the issues raised during the development of the SMP2 overlap with CFMP Action Plans. Some actions in this SMP2 Action Plan should be undertaken along with actions in CFMP Action Plans. The Action Plan clearly highlights which actions will be delivered through / in partnership with CFMP actions.

Outstanding Actions from SMP1

Table 2.1 sets out the outstanding actions from the Severn Estuary SMP1 (published in 2000).

These actions have been reviewed as part of the development of this Action Plan. Those actions that have been identified as still being important are highlighted in **bold**. They are considered to be important because they are similar to actions / issues that have been raised by the SECG, planners and through the consultation processes in developing the SMP2 and this Action Plan.

Table 2.1 - Outstanding actions from the SMP1

Process Unit (PU)	Recommended Activities (taken from the SMP1, 2000)
	Monitoring of beach material levels mid process unit.
PU 1:	Periodic recording of rates of cliff retreat and coastal change.
Penarth	Coastal survey review – the Environment Agency has recently prepared a new asset survey which can provide input into Scheme Strategy Plans, Foreshore Management Plans and SMP review.
	Post-project evaluation of the effects, if any, of the Cardiff Bay Barrage on sediment transport in adjacent units
	Research on the historical interactions between Cardiff Bay and the coastal regime.
PU2: Cardiff	Post-project evaluation of the effects of the Barrage on coastal processes in adjacent units.
Bay	Research on the effect of the new coastline configuration on sediment transport.
	Research and monitoring of the intertidal and shorelines in the adjacent units to assess the extent of the influence of the barrage on adjacent areas.
	Monitoring and research into the causes and mechanisms of foreshore change.
	Historically, the construction of the Cardiff Docks has implemented Advance the Line, as has the recent construction of the Cardiff Bay Barrage. The consequences of this, both within the process unit and more broadly within the estuary, require monitoring and research. This should be linked to a similar assessment of Cardiff Bay, which although now isolated from the coastal regime, was previously linked: it is therefore important to understand its interaction with the coastal regime both historically and now.
PU3:	Research the roles of Cardiff Bay and of dredging the Cardiff Channel in the supply of sediment to the Wentlooge foreshore.
Wentlooge	Research into techniques for maintaining of the defensive capacity of the marsh on the foreshore.
	Monitoring of attempts to recreate marsh colonisation along the Rhymney frontage and trials of other potential mechanisms for habitat creation.
	Assessment of the impacts of hard defences (revetments and return walls) on the fronting marsh.
	Coastal survey review – the Environment Agency has recently prepared a new asset survey which can provide input into Scheme Strategy Plans, Foreshore Management Plans and SMP review.
DI IA: Divor	Field survey and modelling of the channel and sediment dynamics to determine more accurately whether internal process unit boundaries may be distinguished within the estuary.
PU4: River Usk	The Environment Agency are currently undertaking a survey of tidal defence assets. It is recommended that a formal survey of all the banks and related defence assets (whether or not formally regarded as tidal defences) is carried out with the co-operation of the local authorities, rail track operators and riparian owners, so as to establish a comprehensive record of the defences, ownership, condition and responsibilities on the Usk.

Process Unit (PU)	Recommended Activities (taken from the SMP1, 2000)
	Seasonal and annual monitoring of the foreshore levels as part of the data gathering for foreshore management.
PU5:	Tracing of sediment movement to assess natural sediment pathways and the exchanges with the wider estuary would be desirable. However, the feasibility of achieving valid results for cohesive sediments using existing techniques is unlikely. Therefore the Coastal Group should not promote this type of research at present.
Uskmouth	Coastal survey review – the Environment Agency has recently prepared a new asset survey which can provide input into Scheme Strategy Plans, Foreshore Management Plans and SMP review.
	Remote sensing (LIDAR) surveys of the channel margins and low water channel to assess changes to the intertidal slope, marsh and the backshore zone.
PU6: Caldicot	Detailed mapping and investigation of the varied rates of erosion within the Northwick and the middle and lower Wentlooge Formations.
Levels	Coastal survey review – the Environment Agency has recently prepared a new asset survey which can provide input into Scheme Strategy Plans, Foreshore Management Plans and SMP review.
PU7: The	Establishment of a baseline and monitoring of the rates of change of the shoreline.
Severn Crossing	Coastal survey review – the Environment Agency has recently prepared a new asset survey which can provide input into Scheme Strategy Plans, Foreshore Management Plans and SMP review.
PU8: The River Wye	The general stability of the process unit suggests that any monitoring should be over a long time scale. <i>Modelling of the estuary and tidal river section would be needed to increase the confidence in setting process unit boundaries or zones</i> . Research into morphological, hydrodynamic and sediment dynamics would support understanding of the potential direction of change under conditions of sea level rise.
PU9: Beachley to	Monitoring of the position of the offshore banks and main channels to relate to the rates for channel margin change where the shoreline is undefended. Cross-sectional surveys or repeat aerial or LIDAR data sources provide a suitable basis for the broad scale assessment required.
Sharpness	Examination of bank substructure should be considered, to establish the total sediment volumes and the constraints on channel evolution.
PU10: Sharpness to Purton	Monitoring of the position and extent of the intertidal sand bars through periodic survey of the channel profiles would help to understand the nature and rates of the changes in the channel morphology and the possible interaction with the foreshore.
PU11: Tites Point to Hock Cliff	Investigation of the rates of change of the foreshore levels and cross sectional changes within the channel.
PU12: Hock	Periodic linear topographic survey of the edge of the banks. This would enable potential risks to assets to be forecast and would assist the understanding of estuarine

Process Unit (PU)	Recommended Activities (taken from the SMP1, 2000)
Cliff to Longney Pool	evolution in the longer term. Periodic survey of river cross-sections (HR model cross-sections may be applicable). For example, seasonal monitoring (e.g. Spring and Autumn) every five years. Periodic hydrographic survey of shoals and low-water channels near to areas where assets are at risk from erosion. This would enable the influence of channel movement on bank erosion to be anticipated. It could assist in the design of river management measures (e.g. training works, dredging) as alternatives to "hard" defences.
PU13: Longney Pools to The Weirs	Periodic linear topographic survey of the edge of the banks. This would enable potential risks to assets to be forecast and would assist the understanding of estuarine evolution in the longer term. Periodic survey of river cross-sections (HR model cross-sections may be applicable). For example, seasonal monitoring (e.g. Spring and Autumn) every five years to assess the rates and nature of changes to the channel. Periodic hydrographic survey of shoals and low-water channels near to areas where assets are at risk from erosion. This would enable the influence of channel movement on bank erosion to be anticipated. It could assist in the design of river management measures (e.g. training works, dredging) as alternatives to "hard" defences.
PU14: The Weirs to Haw Bridge	For this process unit research and monitoring would relate mainly to the management of the fluvial catchment and the control of fluvial flooding. This is likely to involve ongoing assessment of the influence of tidal levels on the discharge of extreme fluvial flows, and the need, if any, for adaptation of river management measures in response to predicted changes in weather patterns and relative sea level rise.
PU15: New Passage to Portishead	Remote sensing (LIDAR) surveys or other surveys of the channel margins and low water channel to assess changes to the intertidal slope, marsh and the backshore zone. Monitoring and interpretation of the shoreline evolution, in particular changes in the saltmarsh frontage.
PU16: River Avon	The EA Tidal Defence Survey (MRM, 1992) also includes a brief appraisal of those river bank and structures which are not formally categorised as tidal defences. It is recommended that a formal survey of these defences and related assets is carried out with the co-operation of the local authorities, rail track operators and riparian owners, so as to establish a comprehensive record of the defences, ownership, condition and responsibilities on the Avon. Monitor the foreshore and bathymetry within the mouth of the River Avon, and assess the relationship between sedimentation and dredging activities in this unit and the adjacent process unit 15, to contribute to the assessment of management regimes and to the record of shoreline evolution.
PU17: Portishead to Clevedon	Monitoring of foreshore levels, to contribute to the recording and assessment of shoreline evolution.
PU18: Kingston	Remote sensing (LIDAR) surveys of the channel margins and low water channel to assess changes to the intertidal slope, marsh and the backshore zone.

Process Unit (PU)	Recommended Activities (taken from the SMP1, 2000)
Seymour	Monitoring and interpretation of shoreline evolution, in particular the changes in the saltmarsh frontage.
PU19: Middle Hope	Monitoring of cliff erosion rates.
PU20: Sand	Seasonal and annual monitoring of the foreshore levels as part of the data gathering for foreshore management within Sand Bay.
Bay	Develop understanding of non-cohesive sediment movement within Sand Bay to assess natural sediment pathways. This would assist the development of a foreshore management strategy and assessment of the need for intervention in the transport process to maintain the beach and the dunes.
PU21:	Seasonal and annual monitoring of the foreshore levels as part of the data gathering for foreshore management within Weston Bay.
Weston Bay	Develop understanding of non-cohesive sediment movement within Weston Bay to assess natural sediment pathways. This would assist the development of a foreshore management strategy and assessment of the need for intervention in the transport process to maintain the beach and the dunes.
PU22: The Holms	Monitoring the rates of erosion of the shoreline.

3. SMP2 Actions

The following tables set out the identified actions for the SMP2. Actions have been divided into those that are relevant across the whole SMP2 area (overarching actions – Table 3.1) and those for each stretch of shoreline (Policy Unit) – Tables 3.2 – 3.17.

Many of the actions identified for a particular Policy Unit are the same as or similar to actions in other Policy Units. In order to make sure that all the actions that are relevant are included in the Policy Unit, every time an action is needed it has been recorded. This has led to repetition in *Tables 3.2 - 3.17*.

Table	SMP2 Theme Area	SMP2	Council	Country
number		Management Unit		
2.0	Donouth	PEN1	Vale of Clamaran	
3.2	Penarth	PEN2	Vale of Glamorgan	
		CAR1		
3.3	Cardiff	CAR2	Cardiff	
		CAR3	Caruiii	
3.4	Wentlooge	WEN1		
3.4	vventiooge	WEN2		
		NEW1	Newport	
		NEW2		\\/_l
3.5	Newport & Usk	NEW3	Newport / Monmouthshire	Wales
		NEW4	Nouroart	
		NEW5	Newport	
0.0	O a la l'a a r	CALD1	Newport / Monmouthshire	
3.6	Caldicot	CALD2		-
		CALD3	Monmouthshire	
		WYE1	•	
3.7	Chepstow & Wye	WYE2	Monmouthshire / Forest of Dean	Wales / England
		WYE3		
		WYE4		
3.8	Tidenham &	TID1		
3.0	Villages	TID2		
3.9	Lydney	LYD1		
		GLO1		
		GLO2	Forest of Dean	
		GLO3		
3.10	Lydney to	GLO4		
3.10	Gloucester	GLO5		England
		GLO6		Erigiana
		GLO7		
		GLO8		
		MAI1		
		MAI2	Tewkesbury	
3.11	Gloucester to Haw	MAI3		
0.11	Bridge	MAI4		
		MAI5	Gloucester City	
_		MAI6		
3.12	Gloucester to	SHAR1	Stroud	

Table	SMP2 Theme Area	SMP2	Council	Country
number		Management Unit		
	Sharpness	SHAR2		
		SHAR3		
		SHAR4		
		SHAR5		
		SHAR6		
		SHAR7		
		SHAR8		
		SEV1		
		SEV2		
	01	0=110	Stroud / South	
3.13	Sharpness to	SEV3	Gloucestershire	
	Severn Crossing	SEV4		
		SEV5	South	
		SEV6	Gloucestershire	
		BRIS1		
			South	
		BRIS2	Gloucestershire /	
	Occupation Deletal	_	Bristol City	
3.14	Severnside, Bristol	BRIS3	-	
	& Avon	BRIS4	Bristol City	
			Bristol City / North	
		BRIS5	Somerset	
		BRIS6		
		PORT1		
0.4=	Portishead &	PORT2		
3.15	Clevedon	PORT3		
		PORT4	North Somerset	
		KIN1		
0.40	Kingston Seymour	KIN2		
3.16	to Sand Bay	KIN3		
		KIN4		
2.47	The Helme	HOL1	Cardiff	Wales
3.17	The Holms	HOL2	North Somerset	England

The actions included in this Action Plan are considered to be both important and achievable. The inclusion of actions in this Action Plan does not guarantee that they will be undertaken or that funding will be available.

Funding for flood and erosion risk management measures comes from a range or organisations, including central government, local authorities, the Environment Agency and landowners; and from a range of funding 'pots'. Managing flood and erosion risk can be very expensive and actions may need to be funded for a long time – flood warnings need to be made whenever there is a risk of flooding; flood defences need to be built and maintained; and natural defences such as dunes and salt marshes need to be managed and monitored. Funding for managing flood and erosion risk is limited and individual flood defence schemes, management actions and awareness raising programmes compete for these limited funds. It is not possible to fund everything and prioritisation of management measures is necessary.

Sources of funding over and above existing sources are unlikely to be available for the actions contained in this Action Plan.

Key

Biodiversity Action Plan
Countryside Council for Wales
Catchment Flood Management Plan
Dŵr Cymru Welsh Water
Environment Agency
Environment Agency Wales
English Heritage
Environmental Impact Assessment
Glamorgan Gwent Archaeological Trust
Internal Drainage Board
Natural England
National Flood Coastal Defence Database
Policy Unit
Special Area of Conservation
Severn Estuary Coastal Group
Severn Estuary Flood Risk Management Strategy
Shoreline Management Plan
Special Protection Area
Site of Special Scientific Interest
Vale of Glamorgan
Welsh Assembly Government

Table 3.1 - Overarching actions

Action					
no.	Action	Objective	Indicator	Lead partner	Other partners
1	Undertake a 'Future Estuary' study - wave monitoring data should be used	To determine the most appropriate boundary for the upstream extent of future SMPs. To consider how the changing upstream tidal extent may be affected by climate change	Study is complete. Report is produced	EA	SECG
2	Undertake a study of the impacts of storm surges on flood risk, including how climate change may alter storm surges	To better understand the risks posed by storm surges and where the risks are	Study is complete. Report is produced	EA/EAW	SECG members, WAG, Defra
3	Undertake a study of sediment transport mechanisms	To better understand the sediment budget in the Estuary	Study is complete. Report is produced	EA/EAW	SECG members
4	SECG members to create internal stakeholder groups / distribution lists for flood risk management	To improve the dissemination of flood risk information within SECG member organisations. To improve understanding of flood risk management issues within SECG member organisations	Internal stakeholder group / distribution list created in each SECG member organisation	SECG	SECG members
5	Continue stakeholder engagement post-SMP2	To improve stakeholder understanding of flood risk management. To improve stakeholder engagement in future flood and erosion plans.	Flood risk management issues included in SECG updates.	SECG	SECG members
	SMP2 disseminated to all Local	To improve planning officers / planning departments' awareness	All Local Authority planning departments have received a copy of the SMP2. All Local Authority planning departments have met with an SECG member to discuss the SMP2. All local authority development plans make		
6	Authority planners	and understanding of the SMP2	reference to the SMP2	SECG	SECG members

Action	Action	Ohioativa	Indicator	Lood portner	Other pertners
no.	Action	Objective	Indicator	Lead partner	Other partners
7	Regular engagement with town / parish councils	To improve stakeholder understanding of flood risk management. To improve stakeholder engagement in future flood and erosion plans.	SECG meets regularly every town / parish council in SECG area	SECG	SECG members
8	Ensure all stakeholder engagement material is produced in easy to understand format e.g. by using Plain English	To improve stakeholder understanding of flood risk management. To improve stakeholder engagement in future flood and erosion plans.	Published material, websites, etc. is in Plain English	SECG	SECG members
9	Make NFCDD data and Local Authority registers of defence information compatible and accessible to all relevant partners	To improve information flow on defences	SECG members are aware of the condition of all defences (their own and others')	SECG	EA, EAW, WAG, Wales Coastal Monitoring Centre
10	Review the economic value of agricultural land at flood/erosion risk	To better understand the economic and food production importance of the agricultural land at risk	Report is produced	EA/EAW	Local Authorities, IDBs, Defra, WAG
11	Ensure a habitat creation plan is developed and implemented to replace EU protected habitats lost through coastal erosion. This should take account of losses to supporting habitat or terrestrial and freshwater habitats lost as a result of creating new intertidal habitat.	To ensure the integrity, structure and function of EU protected sites and the species they support. To achieve the conservation objectives for the site.	Habitat creation plan is produced. Compensatory habitat is secured and created through management actions.	EA/EAW CCW/NE	WAG, Defra, IDBs, Local Authorities, land owners
12	Review new legislation, policies, etc. of relevance to flood and erosion risk management as and when they are published.	To determine if there is a need to update / amend the SMP2.	Plans are reviewed / SMP2 is updated as appropriate. SECG should consider making a statement regarding each new policy / piece of legislation and its effect (or otherwise) on the SMP2	SECG	WAG, Defra, IDBs, Local Authorities, CCW, NE

Action					
no.	Action	Objective	Indicator	Lead partner	Other partners
13	Review updates to climate change and / or sea level rise predictions as and when they are published	To determine if there is a need to update / amend the SMP2	Plans are reviewed / SMP2 is updated as appropriate. SECG should consider making a statement regarding new predictions and their effect (or otherwise) on the SMP2	SECG	WAG, Defra, IDBs, Local Authorities, CCW, NE
14	Bristol Channel Strategic Coastal Group to consider strategic priorities and funding for actions within this Action Plan and others within the Severn Estuary / Bristol Channel	To prioritise and work co- operatively to achieve the actions in this and other Bristol Channel SMP2 Action Plans. This may include the development of a delivery plan for actions	Actions are prioritised. Funding sources are identified. Ultimately, actions are achieved.	BCSCG	SECG, ND&SCG, South Wales Coastal Group
15	Review SMP and Action Plan based on feedback and comments gathered during the sign off process	To determine if there is a need to update / amend the SMP2 or the Action Plan	SMP2 and Action Plan is updated as appropriate.	SECG	WAG, Defra, IDBs, Local Authorities, CCW, NE
16	Undertake research to better understand the role that habitat outside the SPA / Ramsar plays in supporting the bird species and populations for which the site has been designated.	Better understanding of the importance and role of supporting habitat outside the designated sites	Study is complete. Report is produced	EAWAG	NE, CCW, EAW
17	Undertake an analysis of the ecological context of the proposed habitat creation sites in relation to the areas where habitat will be lost - supports Actions 11 and 15	Better understanding of the suitability of the proposed habitat creation sites in ensuring the integrity, structure and function of the EU protected sites.	Study is complete. Report is produced	EA/WAG	NE, CCW, EAW
18	Monitor the amount and type of habitats lost and created - links to Action 11	To ensure the integrity, structure and function of EU protected sites and the species they support. To achieve the conservation objectives for the site.	Monitoring system is created and maintained. Reports are regularly produced on 'habitat balance'	EA/WAG	NE, CCW, EAW
19	Monitor habitat creation sites - links to Actions 11, 17 and 18	To ensure that habitat is created as predicted and / or that management is appropriate to create habitat similar to that lost.	Monitoring system is created and maintained. Reports are regularly produced on the progress of each habitat creation site	EA	WAG, NE, CCW, EAW

Table 3.2 – Penarth (PEN)

Action	Policy	Local Authority	0	Author	Objection	In the star	Lead	Other	Links to other
no.	Unit	area	Country	Action	Objective Provide more data	Indicator	partner	partners	plans
					for future				
					management				
					decisions, SMP2				
				Put in place monitoring	updates, for Wales				
		Vale of		programme of erosion	Coastal Monitoring	Monitoring data			Swansea &
1.1	PEN1	Glamorgan	Wales	rates and beach levels	Centre	is collected	VoG	EAW, WAG	Carms SMP2
		3		Identify how the Wales	Wales Coastal Path			, -	
		Vale of		Coastal path will be re-	remains operational	Coastal path is		EAW, WAG,	Swansea &
1.2	PEN1	Glamorgan	Wales	routed (links to a1)	as shoreline evolves	operational	VoG	CCW	Carms SMP2
				Engage with GGAT /					
				Cadw on integrating	Historic environment	Historic			
		Vale of		historic environment	finds are notified to	environment			Swansea &
1.3	PEN1	Glamorgan	Wales	into beach monitoring	GGAT / Cadw	data is collected	VoG	GGAT, Cadw	Carms SMP2
				SMP2 is taken into					
				account in Strategic	To ensure integration				
				Flood Consequence	of flood risk	Development			
				Assessments for	management plans	plans make			SEFRMS,
		Vale of		Council development /	and development	reference to			Ogmore-Tawe
1.4	PEN1	Glamorgan	Wales	land use plans	plans	SMP2	VoG	EAW	CFMP - PU12
				Carry out a study to		Survey			
				determine the historic	To see a see that was	undertaken.			
				environment features	To manage the risk	Report			
		Vale of		at risk of flooding and	of flooding and erosion to historic	produced.			
1.5	PEN1	Glamorgan	Wales	erosion. Develop a risk based action plan	environment assets	Action plan developed	GGAT	Cadw	
1.5	FEINI	Giamorgan	wales	risk based action plan	Provide more data	developed	GGAT	Cauw	
					for future				
					management				
					decisions, SMP2				
				Put in place monitoring	updates, for Wales				
		Vale of		programme of erosion	Coastal Monitoring	Monitoring data			Swansea &
1.6	PEN2	Glamorgan	Wales	rates and beach levels	Centre	is collected	VoG	EAW, WAG	Carms SMP2

		Local							
Action no.	Policy Unit	Authority area	Country	Action	Objective	Indicator	Lead partner	Other partners	Links to other plans
		4.54	Country	Identify where new	Reduce the risk of	indicato:	partito	partitore	piano
				defences will need to	flood consequences				
				be, when they will	to businesses /	Asset			
				need to be replaced,	properties where	management			SEFRMS,
	55110	Vale of		how they should be	defences currently	plan or similar is	Defence	EAW, CCW,	Swansea &
1.7	PEN2	Glamorgan	Wales	constructed	exist	created	owner	VoG	Carms SMP2
				Undertake economic assessment of the	To provide more				
		Vale of		cost/benefit of	scheme specific cost	Report is	Defence	EAW, CCW,	
1.8	PEN2	Glamorgan	Wales	replacing defences	data	produced	owner	VoG	
1.0	1 1112	Ciamorgan	vvaics	Ensure environmental	data	produced	OWITCI	700	
				issues are taken into					
				account in the design /					
				construction of new					SAC
				defences. Ensure any					Regulation 33
				works adhere to					advice, SSSI
				agreed working	-				management
		Vale of		practices e.g. to	Environment is not	EIA is sorried	Defense	EANA CC\A/	plans, BAP
1.9	PEN2	Glamorgan	Wales	prevent disturbance to birds	damaged by flood defence construction	EIA is carried out	Defence owner	EAW, CCW, VoG, GGAT	management plans
1.9	FEINZ	Giairioigaii	vvales	biius	Businesses /	Out	Owner	VOG, GGAT	piaris
					residents are aware				
					of the risks from				
					overtopping.				
					Businesses /				
					residents are aware				
					of warning systems.				
				Identify flood risk	Businesses /				
				management actions	residents are aware				
				to help businesses / residents cope with the	of actions they can take to reduce the	Damage from			SEFRMS.
		Vale of		results of increasing	consequences of	overtopping			Ogmore-Tawe
1.10	PEN2	Glamorgan	Wales	wave overtopping	overtoppping	events is limited.	VoG	EAW, WAG	CFMP - PU12
			1.55		To better understand	213.110.10.11111001			
				Undertake a study of	the risks to the Pier	Study is			
				the risks of climate	and develop an	undertaken.			
		Vale of		change, flooding and	appropriate action	Action plan is			
1.11	PEN2	Glamorgan	Wales	erosion to the Pier	plan	produced	VoG	GGAT, Cadw	

Action	Policy	Local Authority					Lead	Other	Links to other
no.	Unit	area	Country	Action	Objective	Indicator	partner	partners	plans
				Identify how the Wales Coastal path will be re- routed (links to	Wales Coastal Path				
		Vale of		knowing rate of	remains operational	Coastal path is			
1.12	PEN2	Glamorgan	Wales	erosion)	as shoreline evolves	operational	VoG	EAW, WAG	
1.13	PEN2	Vale of Glamorgan	Wales	Engage with GGAT / Cadw on integrating historic environment into beach monitoring	Historic environment finds are notified to GGAT / Cadw	Historic environment data is collected	VoG	GGAT, Cadw	
1.14	PEN2	Vale of Glamorgan	Wales	Engage with GGAT / Cadw on replacement of defences / flood risk management	Historic environment is not damaged by flood defence construction / flood risk management actions	EIA is carried out	Defence owner	GGAT, Cadw	
1.15	PEN2	Vale of Glamorgan	Wales	SMP2 is taken into account in Strategic Flood Consequence Assessments for Council development / land use plans	To ensure integration of flood risk management plans and development plans	Development plans make reference to SMP2	VoG	EAW	SEFRMS, Ogmore-Tawe CFMP - PU12
1.16	PEN2	Vale of Glamorgan	Wales	Carry out a study to determine the historic environment features at risk of flooding and erosion. Develop a risk based action plan	To manage the risk of flooding and erosion to historic environment assets.	Survey undertaken. Report produced. Action plan developed	GGAT	Cadw	

Table 3.3 – Cardiff (CAR)

Action no.	Policy Unit	Local Authority area	Country	Action	Objective	Indicator	Lead partner	Other partners	Links to other plans
2.1	CAR1	Cardiff City	Wales	Encourage Cardiff Harbour Authority to undertake an assessment of climate change impacts on the operation and performance of Cardiff Barrage taking account of the impacts on flood risk management. The costs of maintaining the Barrage should be included in any investigation.	To better understand the impact of climate change on the Cardiff Barrage and operation To ensure integration	Report is produced	EAW - CFMP	Cardiff Harbour Authority	Taff-Ely CFMP - PU8, action 17 SEFRMS,
2.2	CAR1	Cardiff City	Wales	SMP2 is taken into account in Strategic Flood Consequence Assessments for Council development / land use plans	of flood risk management plans and development plans	Development plans make reference to SMP2	Cardiff Council	EAW	Taff-Ely CFMP - PU8, action 2
2.3	CAR1	Cardiff City	Wales	Carry out a study to determine the effects (if any) of the Cardiff Barrage on sediment transport in adjacent units (SMP1 recommendation).	To better understand the impact of the Cardiff Barrage on sediment dynamics in the area	Report is produced	Cardiff Harbour Authority	EAW, Cardiff Council	SEFRMS, Taff-Ely CFMP - PU8, action 9
2.4	CAR1	Cardiff City	Wales	Ensure environmental issues are taken into account in the management of the Cardiff Barrage. Ensure any works adhere to agreed working practices e.g. to prevent disturbance to birds	Environment is not damaged by flood defence management	EIA is carried out	Cardiff Harbour Authority	EAW, CCW, GGAT	SAC Regulation 33 advice, SSSI management plans, BAP management plans
2.5	CAR1	Cardiff City	Wales	SMP2 is taken into account in Strategic Flood Consequence Assessments for Council development / land use plans	To ensure integration of flood risk management plans and development plans	Development plans make reference to SMP2	VoG	EAW	SEFRMS, Ogmore- Tawe CFMP - PU12

Action no.	Policy Unit	Local Authority area	Country	Action	Objective	Indicator	Lead partner	Other partners	Links to other plans
2.6	CAR2	Cardiff City	Wales	Encourage Network Rail to undertake an assessment of the current and future risks and resilience to flooding of the railway line. Develop a flood resilience and adaptation plan as appropriate.	To better understand the risks to the rail network and how they can be managed	Report is produced. Plans / actions developed	EAW	Network Rail	
2.7	CAR2	Cardiff City	Wales	SMP2 is taken into account in Strategic Flood Consequence Assessments for Council development / land use plans	To ensure integration of flood risk management plans and development plans	Development plans make reference to SMP2	Cardiff Council	EAW	SEFRMS, Taff-Ely CFMP - PU8, action 2
2.8	CAR2	Cardiff City	Wales	Identify where new defences will need to be, when they will need to be replaced, how they should be constructed	Reduce the risk of flood consequences to businesses / properties where defences currently exist	Asset management plan or similar is created	EA - SEFRMS	CCW, Cardiff Council, IDBs	SEFRMS
2.9	CAR2	Cardiff City	Wales	Ensure environmental issues are taken into account in the design / construction of new defences. Ensure any works adhere to agreed working practices e.g. to prevent disturbance to birds	Environment is not damaged by flood defence construction	EIA is carried out	Defence owner	EAW, CCW, Cardiff Council	SAC Regulation 33 advice, SSSI management plans, BAP management plans
2.10	CAR2	Cardiff City	Wales	Engage with GGAT / Cadw on replacement of defences / flood risk management	Historic environment is not damaged by flood defence construction / flood risk management actions	EIA is carried out	Defence owner	GGAT, Cadw	
2.11	CAR2	Cardiff City	Wales	SMP2 is taken into account in Strategic Flood Consequence Assessments for Council development / land use plans	To ensure integration of flood risk management plans and development plans	Development plans make reference to SMP2	Cardiff Council	EAW	SEFRMS, Taff-Ely CFMP - PU8, action 2

Action no.	Policy Unit	Local Authority area	Country	Action	Objective	Indicator	Lead partner	Other partners	Links to other plans
2.12	CAR2	Cardiff City	Wales	SMP2 is taken into account in Strategic Flood Consequence Assessments for Council development / land use plans	To ensure integration of flood risk management plans and development plans	Development plans make reference to SMP2	VoG	EAW	SEFRMS, Ogmore- Tawe CFMP - PU12
2.13	CAR3	Cardiff City	Wales	Identify where new defences will need to be, when they will need to be replaced, how they should be constructed	Reduce the risk of flood consequences to businesses / properties where defences currently exist	Asset management plan or similar is created	EA - SEFRMS	EAW, CCW, Cardiff Council, IDBs	SEFRMS
2.14	CAR3	Cardiff City	Wales	Ensure environmental issues are taken into account in the design / construction of new defences. Ensure any works adhere to agreed working practices e.g. to prevent disturbance to birds	Environment is not damaged by flood defence construction	EIA is carried out	Defence owner	EAW, CCW, Cardiff Council	SAC Regulation 33 advice, SSSI management plans, BAP management plans
2.15	CAR3	Cardiff City	Wales	Engage with GGAT / Cadw on replacement of defences / flood risk management	Historic environment is not damaged by flood defence construction / flood risk management actions	EIA is carried out	Defence owner	GGAT, Cadw	piano
2.16	CAR3	Cardiff City	Wales	SMP2 is taken into account in Strategic Flood Consequence Assessments for Council development / land use plans	To ensure integration of flood risk management plans and development plans	Development plans make reference to SMP2	Cardiff Council	EAW	SEFRMS, Taff-Ely CFMP - PU8, action 2
2.17	CAR3	Cardiff City	Wales	SMP2 is taken into account in Strategic Flood Consequence Assessments for Council development / land use plans	To ensure integration of flood risk management plans and development plans	Development plans make reference to SMP2	VoG	EAW	SEFRMS, Ogmore- Tawe CFMP - PU12

Table 3.4 – Wentlooge (WEN)

Action no.	Policy Unit	Local Authority area	Country	Action	Objective	Indicator	Lead partner	Other partners	Links to other plans
3.1	WEN1	Cardiff City	Wales	Undertake research involving stakeholders to identify where (and when) MR could take place within the Policy Unit in the medium and longer terms. Study should look at minor, staged and larger, long term MR options	To identify areas of MR that can be practically implemented. To involve stakeholders and landowners in the management process	Stakeholders / landowners are aware of the need and reasons for MR. Stakeholders / landowners are involved in the process to identify areas for MR. Areas for MR that can be implemented are identified.	EAW - SEFRMS	CCW, Cardiff Council, IDB, GGAT, stakeholders	SEFRMS, SAC Regulation 33 advice, SSSI management plans, BAP management plans, Regional Habitat plans
		- Caram Ony	774.00	Identify where new defences will need to be, when they will need to be	Reduce the risk of flood consequences	racinimod.	02.74.110	Startoriolagie	Traditat pland
2.0	NA/ENIA	Conditt City	Woles	replaced, how they should be constructed. This should consider if there are	to businesses / properties where defences currently	Asset management plan or similar is	EAW -	EAW, CCW, Cardiff Council,	CEEDMC
3.2	WEN1	Cardiff City Cardiff City	Wales	opportunities for MR Ensure environmental issues are taken into account in the design / construction of new defences. Ensure any works adhere to agreed working practices e.g. to prevent disturbance to birds	Environment is not damaged by flood defence construction	EIA is carried out	SEFRMS	EAW, CCW, Cardiff Council	SEFRMS SAC Regulation 33 advice, SSSI management plans, BAP management plans
3.3	VVEINI	Cardin City	vvales	Engage with GGAT / Cadw	Historic environment is not damaged by flood defence construction / flood		EAVV		ріанѕ
3.4	WEN1	Cardiff City	Wales	on replacement of defences / flood risk management	risk management actions	EIA is carried out	EAW	GGAT, Cadw	

Action	Policy	Local Authority					Lead	Other	Links to
no.	Unit	area	Country	Action	Objective	Indicator	partner	partners	other plans
			Country	Put in place monitoring	Provide more data for future management decisions, SMP2 updates, for Wales Coastal Monitoring Centre, habitat		puille	pae.c	SEFRMS, SAC Regulation 33 advice, SSSI management plans, BAP management plans,
3.5	WEN1	Cardiff City	Wales	programme of erosion rates and salt marsh levels/extent	creation needs, SAC	Monitoring data is collected	EAW	CCW, WAG	Regional Habitat plans
0.0	VVLIVI	Octrom Only	vvaics	SMP2 is taken into account in Strategic Flood Consequence Assessments	management To ensure integration of flood risk management plans	Development plans make	Cardiff	OOW, WAG	Trabitat plans
3.6	WEN1	Cardiff City	Wales	for Council development / land use plans	and development plans	reference to SMP2	Council	EAW	
				Work with private defence	To integrate private defences into the overall flood and erosion strategy and	Private defence owners are aware of the flood and erosion risk management actions. EAW is aware of the state and standard of private defences. All			
3.7	WEN1	Cardiff City	Wales	owners to integrate private defences into the flood management strategy for the area	ensure all defences are appropriately monitored and maintained	defences work together in an integrated manner	EAW	Private defence owners, IDBs	SEFRMS

		Local							
Action	Policy	Authority			.		Lead	Other	Links to
no.	Unit	area	Country	Action	Objective	Indicator	partner	partners	other plans
				Encourage Network Rail to					
				undertake an assessment					
				of the current and future					
				risks and resilience to	To better understand				
				flooding of the railway line.	the risks to the rail	Report is			
				Develop a flood resilience	network and how	produced.			
		0 114 011		and adaptation plan as	they can be	Plans / actions			
3.8	WEN1	Cardiff City	Wales	appropriate.	managed	developed	EAW	Network Rail	
				Encourage utility providers					
				(water and electricity) to					
				undertake an assessment	To botton donaton d				
				of the current and future risks and resilience of their	To better understand the risks to the water				
				assets to flooding. Develop	and electricity	Report is		Western	
				a flood resilience and	networks and how	produced.		Power	
				adaptation plan as	they can be	Plans / actions		Distribution,	
3.9	WEN1	Cardiff City	Wales	appropriate.	managed	developed	EAW	DISTRIBUTION, DCWW	
3.3	VVLINI	Cardin City	vvales		· ·	developed	LAVV	DCVVV	
				Identify how the Wales	Wales Coastal Path		0 ""	- - - - - - - - - -	
0.40		0 114 011		Coastal path could be re-	remains operational	Coastal path is	Cardiff	EAW, WAG,	
3.10	WEN1	Cardiff City	Wales	routed under MR options	as shoreline evolves	operational	Council	CCW	
				SMP2 is taken into account	To ensure integration				0555140
				in Strategic Flood	of flood risk	Development			SEFRMS,
				Consequence Assessments	management plans	plans make			Ogmore-
3.11	WEN1	Conditt City	Malaa	for Council development /	and development	reference to	VoG	E 414/	Tawe CFMP -
3.11	VVEIVI	Cardiff City	Wales	land use plans	plans	SMP2	VOG	EAW	PU12
				Identify where new defences will need to be,	Reduce the risk of	Asset			
				when they will need to be,					
				replaced, how they should	flood consequences to businesses /	management plan or similar is		EAW, CCW,	
				be constructed. This	properties where	created. Areas		Newport	
				should consider	defences currently	for MR identified	EAW -	Council,	
3.12	WEN1	Cardiff City	Wales	opportunities for MR	exist	(if appropriate)	SEFRMS	IDBs, GGAT	SEFRMS
3.12	VVEIVI	Caruin City	vvaics	opportunities for Mr.	CVIOL	(ii appiopiiale)	SELVINO	IDDS, GGAT	SEFRING

Action no.	Policy Unit	Local Authority area	Country	Action	Objective	Indicator	Lead partner	Other partners	Links to other plans
3.13	WEN1	Cardiff City	Wales	Undertake research involving stakeholders to identify where (and when) MR could take place within the Policy Unit in the medium and longer terms. Study should look at minor, staged and larger, long term MR options	To identify areas of MR that can be practically implemented. To involve stakeholders and landowners in the management process	Stakeholders / landowners are aware of the need and reasons for MR. Stakeholders / landowners are involved in the process to identify areas for MR. Areas for MR that can be implemented are identified.	EAW - SEFRMS	CCW, Newport Council, IDB, GGAT, stakeholders	SEFRMS, SAC Regulation 33 advice, SSSI management plans, BAP management plans, Regional Habitat plans
3.14	WEN2	Newport	Wales	Ensure environmental issues are taken into account in the design / construction of new defences. Ensure any works adhere to agreed working practices e.g. to prevent disturbance to birds	Environment is not damaged by flood defence construction	EIA is carried	EAW	CCW, Newport Council	SAC Regulation 33 advice, SSSI management plans, BAP management plans
3.15	WEN2	Newport	Wales	Engage with GGAT / Cadw on replacement of defences / flood risk management	Historic environment is not damaged by flood defence construction / flood risk management actions	EIA is carried out	EAW	GGAT, Cadw	
3.16	WEN2	Newport	Wales	Put in place monitoring programme of erosion rates and salt marsh levels/extent	Provide more data for future management decisions, SMP2 updates, for Wales Coastal Monitoring Centre, habitat creation needs, SAC management	monitoring data is collected	EAW	CCW, WAG	FRMS, SAC Regulation 33 advice, SSSI management plans, BAP management plans, Regional Habitat plans

	Authority					Lead	Other	Links to
Policy Init	area	Country	Action	Objective	Indicator	partner	partners	other plans
			SMP2 is taken into account	To ensure integration				_
					•			
					•			
				•				
VEN2	Newport	Wales		plans	SMP2	Council	EAW	
				To botton and only a				
					Damant :a			
VENIO	Newport	Wales		1		ΕΛ\Λ/	Network Pail	
VLINZ	Newport	vvales		managed	developed	LAVV	Network Itali	
				To better understand				
			risks and resilience of their	the risks to the water				
			assets to flooding. Develop	and electricity	Report is		Western	
			a flood resilience and	networks and how	produced.		Power	
			adaptation plan as	they can be	Plans / actions		Distribution,	
VEN2	Newport	Wales	appropriate.	managed	developed	EAW	DCWW	
								FRMS, SAC
								Regulation 33
								advice, SSSI
			Assess the Secretary of the L					management
				To botton undonstant				plans, BAP
							CCM	management
					Penort is			plans, Regional
VEN2	Newport	Wales	•		•	FAW		Habitat plans
<u>v</u>	EN2	EN2 Newport EN2 Newport EN2 Newport	EN2 Newport Wales EN2 Newport Wales EN2 Newport Wales	SMP2 is taken into account in Strategic Flood Consequence Assessments for Council development / land use plans Encourage Network Rail to undertake an assessment of the current and future risks and resilience to flooding of the railway line. Develop a flood resilience and adaptation plan as appropriate. Encourage utility providers (water and electricity) to undertake an assessment of the current and future risks and resilience of their assets to flooding. Develop a flood resilience and adaptation plan as appropriate. EN2 Newport Wales Assess the impacts of hard defences (revetments and return walls) on the fronting saltmarsh (SMP1	SMP2 is taken into account in Strategic Flood Consequence Assessments for Council development / land use plans Encourage Network Rail to undertake an assessment of the current and future risks and resilience and adaptation plan as appropriate. Encourage utility providers (water and electricity) to undertake an assessment of the current and future risks and resilience of their assets to flooding. Develop a flood resilience and adaptation plan as appropriate. Encourage utility providers (water and electricity) to undertake an assessment of the current and future risks and resilience of their assets to flooding. Develop a flood resilience and adaptation plan as appropriate. To better understand the risks to the water and electricity networks and how they can be managed To better understand the risks to the water and electricity networks and how they can be managed Assess the impacts of hard defences (revetments and return walls) on the fronting saltmarsh (SMP1	SMP2 is taken into account in Strategic Flood Consequence Assessments for Council development / land use plans Encourage Network Rail to undertake an assessment of the current and future risks and resilience and adaptation plan as appropriate. EN2 Newport Wales Plans Newport Wales Plans Wales Plans Encourage Network Rail to undertake an assessment of the current and future risks and resilience to and adaptation plan as appropriate. Encourage utility providers (water and electricity) to undertake an assessment of the current and future risks and resilience of their assets to flooding. Develop a flood resilience and adaptation plan as appropriate. Newport Wales Plans To better understand the risks to the rail network and how they can be managed To better understand the risks to the water and electricity networks and how they can be managed To better understand the risks to the water and electricity networks and how they can be managed To better understand the risks to the water and electricity networks and how they can be managed To better understand the risks to the water and electricity networks and how they can be managed To better understand the risks to the water and electricity networks and how they can be managed To better understand the risks to the water and electricity networks and how they can be managed To better understand the risks to the water and electricity networks and how they can be managed To better understand the risks to the water and electricity networks and how they can be managed To better understand the risks to the water and electricity networks and how they can be managed To better understand the risks to the water and electricity networks and how they can be managed To better understand the risks to the water and the risks to the water and electricity networks and how they can be managed To better understand the risks to the water and the risks to the water and electricity networks and how they can be managed	SMP2 is taken into account in Strategic Flood Consequence Assessments for Council development / land use plans and development plans and development of the current and future risks and resilience and adaptation plan as appropriate. EN2 Newport Wales Encourage utility providers (water and electricity) to undertake an assessment of the current and future risks and resilience and future risks and resilience of their assets to flooding. Develop a flood resilience and adaptation plan as appropriate. EN2 Newport Wales Encourage utility providers (water and electricity) to undertake an assessment of the current and future risks and resilience of their assets to flooding. Develop a flood resilience and adaptation plan as appropriate. EN2 Newport Wales To better understand the risks to the water and electricity in networks and how they can be managed developed EAW Assess the impacts of hard defences (revetments and return walls) on the fronting saltmarsh (SMP1 Assess to saltmarsh of hard engineered Report is	SMP2 is taken into account in Strategic Flood Consequence Assessments for Council development / land use plans for Council development / land use plans and development of the current and future risks and resilience to flooding of the railway line. Develop a flood resilience and adaptation plan as appropriate. To better understand the risks to the rail network and how they can be managed ENZ Newport Wales Plans / Assess the impacts of hard defences (revetments and return walls) on the fronting saltmarsh (SMP1 SMP2 Cardiff Development plans make reference to SMP2 Council EAW To better understand the risks to the rail network and how they can be managed To better understand the risks to the water and electricity) to undertake an assessment of the current and future risks and resilience and adaptation plan as appropriate. To better understand the risks to the water and electricity networks and how they can be managed Assess the impacts of hard defences (revetments and return walls) on the fronting saltmarsh (SMP1 Assess the impacts of hard defences (revetments and return walls) on the fronting saltmarsh (SMP1 To better understand the risks to the water and electricity networks and how they can be managed Assess the impacts of hard defences (revetments and return walls) on the fronting saltmarsh (SMP1 To better understand the risks to the water and electricity networks and how they can be managed Assess the impacts of hard defences (revetments and return walls) on the fronting saltmarsh (SMP1 To better understand the risks to saltmarsh of hard engineered Report is Cardiff Council EAW Network Rail To better understand the risks to saltmarsh of hard engineered Report is Report is Western Power Distribution, CCW, Cardiff

Action	Policy	Local Authority					Lead	Other	Links to
no.	Unit	area	Country	Action	Objective	Indicator	partner	partners	other plans
3.21	WEN2	Newport	Wales	Monitor attempts to recreate saltmarsh colonisation along the Rhymney frontage and trials of other potential mechanisms for habitat creation (SMP1 recommendation).	To better understand effectiveness of saltmarsh creation/colonisation programmes.	Monitoring data is collected / Report is produced	EAW	CCW, Cardiff Council, IDB	FRMS, SAC Regulation 33 advice, SSSI management plans, BAP management plans, Regional Habitat plans
3.22	WEN2	Newport	Wales	Review the economic value of agricultural land at flood/erosion risk	To better understand the economic and food production importance of the agricultural land at risk	Report is produced	WAG	EAW, IDB	Tiabitat piaris
3.23	WEN2	Newport	Wales	Identify how the Wales Coastal path could be re- routed under MR options	Wales Coastal Path remains operational as shoreline evolves	Coastal path is operational	LA	EAW, WAG, CCW	
3.24	WEN2	Newport	Wales	SMP2 is taken into account in Strategic Flood Consequence Assessments for Council development / land use plans	To ensure integration of flood risk management plans and development plans	Development plans make reference to SMP2	VoG	EAW	SEFRMS, Ogmore- Tawe CFMP - PU12

Table 3.5 - Newport & Usk (NEW)

Action	Policy	Local Authority					Lead	Other	Links to
no.	Unit	area	Country	Action	Objective	Indicator	partner	partners	other plans
4.1	NEW1	Newport	Wales	Identify where new defences will need to be, when they will need to be replaced, how they should be constructed	Reduce the risk of flood consequences to businesses / properties where defences currently exist	Asset management plan or similar is created	EAW - SEFRMS	EAW, CCW, Newport Council, IDBs	SEFRMS, Wye and Usk CFMP - PU7, actions 5, 9, Newport Flood Risk Strategy
4.2	NEW1	Newport	Wales	Ensure environmental issues are taken into account in the design / construction of new defences. Ensure any works adhere to agreed working practices e.g. to prevent disturbance to birds	Environment is not damaged by flood defence construction	EIA is carried out	EAW	EAW, CCW, Newport Council	SAC Regulation 33 advice, SSSI management plans, BAP management plans
4.3	NEW1	Newport	Wales	Engage with GGAT / Cadw on replacement of defences / flood risk management	Historic environment is not damaged by flood defence construction / flood risk management actions	EIA is carried out	EAW	GGAT, Cadw	SEFRMS, Newport Flood Risk Strategy
4.4	NEW1	Newport	Wales	SMP2 is taken into account in Strategic Flood Consequence Assessments for Council development / land use plans	To ensure integration of flood risk management plans and development plans	Development plans make reference to SMP2	Newport Council	EAW	SEFRMS, Newport Flood Risk Strategy, Wye and Usk CFMP - PU7, action 6, planning documents
4.5	NEW1	Newport	Wales	Undertake survey and modelling of the channel and sediment dynamics	To determine more accurately whether Policy Unit boundaries in the estuary are correct	Report produced / recommendations made	EAW	Newport Council	SEFRMS, future SMPs

Action	Policy	Local Authority					Lead	Other	Links to
no.	Unit	area	Country	Action	Objective	Indicator	partner	partners	other plans
4.6	NEW1	Newport	Wales	SMP2 is taken into account in Strategic Flood Consequence Assessments for Council development / land use plans	To ensure integration of flood risk management plans and development plans	Development plans make reference to SMP2	VoG	EAW	SEFRMS, Ogmore-Tawe CFMP - PU12
4.7	NEW2	Newport	Wales	Identify where new defences will need to be, when they will need to be replaced, how they should be constructed	Reduce the risk of flood consequences to businesses / properties where defences currently exist	Asset management plan or similar is created	EAW - SEFRMS	EAW, CCW, Newport Council	SEFRMS, Wye and Usk CFMP - PU7, actions 5, 9, Newport Flood Risk Strategy
4.8	NEW2	Newport	Wales	Ensure environmental issues are taken into account in the design / construction of new defences. Ensure any works adhere to agreed working practices e.g. to prevent disturbance to birds	Environment is not damaged by flood defence construction	EIA is carried out	EAW	EAW, CCW, Newport Council	SAC Regulation 33 advice, SSSI management plans, BAP management plans
4.9	NEW2	Newport	Wales	Engage with GGAT / Cadw on replacement of defences / flood risk management	Historic environment is not damaged by flood defence construction / flood risk management actions	EIA is carried out	EAW	GGAT, Cadw	SAC Regulation 33 advice, SSSI management plans, BAP management plans
4.10	NEW2	Newport	Wales	SMP2 is taken into account in Strategic Flood Consequence Assessments for Council development / land use plans	To ensure integration of flood risk management plans and development plans	Development plans make reference to SMP2	Newport Council	EAW	SEFRMS, Newport Flood Risk Strategy, Wye and Usk CFMP - PU7, action 6, planning documents

Action no.	Policy Unit	Local Authority area	Country	Action	Objective	Indicator	Lead partner	Other partners	Links to other plans
4.11	NEW2	Newport	Wales	Undertake survey and modelling of the channel and sediment dynamics	To determine more accurately whether Policy Unit boundaries in the estuary are correct	Report produced / recommendations made	EAW	Newport Council	SEFRMS, future SMPs
4.12	NEW2	Newport	Wales	Encourage utility providers (water and electricity) to undertake an assessment of the current and future risks and resilience of their assets to flooding. Develop a flood resilience and adaptation plan as appropriate.	To better understand the risks to the water and electricity networks and how they can be managed	Report is produced. Plans / actions developed	EAW	Western Power Distribution, DCWW	
4.13	NEW2	Newport	Wales	SMP2 is taken into account in Strategic Flood Consequence Assessments for Council development / land use plans	To ensure integration of flood risk management plans and development plans	Development plans make reference to SMP2	VoG	EAW	SEFRMS, Ogmore-Tawe CFMP - PU12
4.14	NEW3	Newport	Wales	Make landowners, residents, etc. aware of the likely flood risks in the future.	Businesses / residents are aware of the risks from flooding	O.W. Z	EAW	Newport Council, IDBs	SEFRMS, Wye and Usk CFMP - PU7, actions 7, 8
4.15	NEW3	Newport	Wales	Identify flood risk management actions to help landowners / residents cope with the results of increased flooding	Businesses / residents are aware of warning systems. Businesses / residents are aware of actions they can take to reduce the consequences of flooding	Impacts of flooding events is limited.	EAW	Newport Council, EAW, WAG, IDBs	SEFRMS, Wye and Usk CFMP - PU7, actions 7, 8, 13, 14

Action	Policy	Local Authority					Lead	Other	Links to
no.	Unit	area	Country	Action	Objective	Indicator	partner	partners	other plans
4.16	NEW3	Newport	Wales	Assess historic environment assets at risk and develop a plan to respond appropriately to the risks	To better understand the historic environment assets at risk. To better plan for the management of historic environment assets at risk.	Historic assets at risk register (or similar) and action plan is produced	GGAT	Cadw, Newport Council, EAW	SEFRMS, Newport Flood Risk Strategy
4.17	NEW3	Newport	Wales	Encourage utility providers (water and electricity) to undertake an assessment of the current and future risks and resilience of their assets to flooding. Develop a flood resilience and adaptation plan as appropriate.	To better understand the risks to the water and electricity networks and how they can be managed	Report is produced. Plans / actions developed	EAW	Western Power Distribution, DCWW	
4.18	NEW3	Newport	Wales	SMP2 is taken into account in Strategic Flood Consequence Assessments for Council development / land use plans	To ensure integration of flood risk management plans and development plans	Development plans make reference to SMP2	Newport Council	EAW	SEFRMS, Newport Flood Risk Strategy, Wye and Usk CFMP - PU7, action 6, planning documents
4.19	NEW3	Newport	Wales	SMP2 is taken into account in Strategic Flood Consequence Assessments for Council development / land use plans	To ensure integration of flood risk management plans and development plans	Development plans make reference to SMP2	VoG	EAW	SEFRMS, Ogmore-Tawe CFMP - PU12
4.20	NEW4	Newport	Wales	Identify where new defences will need to be, when they will need to be replaced, how they should be constructed	Reduce the risk of flood consequences to businesses / properties where defences currently exist	Asset management plan or similar is created	EAW - SEFRMS	EAW, CCW, LA	SEFRMS, Wye and Usk CFMP - PU7, actions 5, 9, Newport Flood Risk

Action no.	Policy Unit	Local Authority area	Country	Action	Objective	Indicator	Lead partner	Other partners	Links to other plans
			,		,				Strategy
4.21	NEW4	Newport	Wales	Ensure environmental issues are taken into account in the design / construction of new defences. Ensure any works adhere to agreed working practices e.g. to prevent disturbance to birds	Environment is not damaged by flood defence construction	EIA is carried out	EAW	EAW, CCW, LA	SAC Regulation 33 advice, SSSI management plans, BAP management plans
4.22	NEW4	Newport	Wales	Engage with GGAT / Cadw on replacement of defences / flood risk management	Historic environment is not damaged by flood defence construction / flood risk management actions	EIA is carried out	EAW	GGAT, Cadw	
4.23	NEW4	Newport	Wales	SMP2 is taken into account in Strategic Flood Consequence Assessments for Council development / land use plans	To ensure integration of flood risk management plans and development plans	Development plans make reference to SMP2	LA	EAW	SEFRMS, Newport Flood Risk Strategy, Wye and Usk CFMP - PU7, action 6, planning documents
4.24	NEW4	Newport	Wales	Encourage utility providers (water and electricity) to undertake an assessment of the current and future risks and resilience of their assets to flooding. Develop a flood resilience and adaptation plan as	To better understand the risks to the water and electricity networks and how they can be managed	Report is produced. Plans / actions developed	EAW	Western Power Distribution, DCWW	

Action	Policy	Local Authority	_				Lead	Other	Links to
no.	Unit	area	Country	Action	Objective	Indicator	partner	partners	other plans
				appropriate.					
				SMP2 is taken into					
				account in Strategic Flood					
				Consequence	To ensure integration of	Development			
				Assessments for Council	flood risk management	plans make			SEFRMS,
				development / land use	plans and development	reference to			Ogmore-Tawe
4.25	NEW4	Newport	Wales	plans	plans	SMP2	VoG	EAW	CFMP - PU12
				Seasonal and annual monitoring of the					
				foreshore levels at	Better understanding of			Newport	
				Uskmouth (SMP1	erosion / accretion	Monitoring data is		Council,	SEFRMS.
4.26	NEW5	Newport	Wales	recommendation)	levels	collected	EAW	IDBs	future SMPs
		•		ŕ					SEFRMS,
									Wye and Usk
				Identify where new	Reduce the risk of flood				CFMP - PU7,
				defences will need to be,	consequences to	Asset			actions 5, 9,
				when they will need to be replaced, how they should	businesses / properties where defences	management plan or similar is	EAW -	EAW,	Newport Flood Risk
4.27	NEW5	Newport	Wales	be constructed	currently exist	created	SEFRMS	CCW, LA	Strategy
7.21	INLVVO	Newport	vvaics	Ensure environmental	Currently Cx13t	Greated	OLI IXIVIO	OOVV, EA	Ottatogy
				issues are taken into					
				account in the design /					SAC
				construction of new					Regulation 33
				defences. Ensure any					advice, SSSI
				works adhere to agreed	English and the set				management
				working practices e.g. to prevent disturbance to	Environment is not			E 414/	plans, BAP
4.28	NEW5	Newport	Wales	birds	damaged by flood defence construction	EIA is carried out	EAW	EAW, CCW, LA	management plans
7.20	145 449	INGWPOIL	v v aics	Dirus	actorice construction	LIA IS CAITIEU OUL	∟ /\\\	JOOV, LA	ριαιίο

		Local							
Action no.	Policy Unit	Authority area	Country	Action	Objective	Indicator	Lead partner	Other partners	Links to other plans
110.	Oint	area	Country	Engage with GGAT / Cadw on replacement of defences / flood risk	Historic environment is not damaged by flood defence construction / flood risk management	indicator	partitei	GGAT.	other plans
4.29	NEW5	Newport	Wales	management	actions	EIA is carried out	EAW	Cadw	
4.30	NEW5	Newport	Wales	SMP2 is taken into account in Strategic Flood Consequence Assessments for Council development / land use plans	To ensure integration of flood risk management plans and development plans	Development plans make reference to SMP2	LA	EAW	SEFRMS, Newport Flood Risk Strategy, Wye and Usk CFMP - PU7, action 6, planning documents
4.31	NEW5	Newport	Wales	Encourage utility providers (water and electricity) to undertake an assessment of the current and future risks and resilience of their assets to flooding. Develop a flood resilience and adaptation plan as appropriate.	To better understand the risks to the water and electricity networks and how they can be managed	Report is produced. Plans / actions developed	EAW	Western Power Distribution, DCWW	
4.32	NEW5	Newport	Wales	SMP2 is taken into account in Strategic Flood Consequence Assessments for Council development / land use plans	To ensure integration of flood risk management plans and development plans	Development plans make reference to SMP2	VoG	EAW	SEFRMS, Ogmore-Tawe CFMP - PU12

Table 3.6 - Caldicot Levels (CALD)

Action	Policy	Local	0	Antina	Objection	Indicator	Lead	Other	Links to
no. 5.1	Unit	Authority area Newport / Monmouthshire	Country	Action Identify where new defences will need to be, when they will need to be replaced, how they should be constructed. This should consider if there are opportunities for MR	Reduce the risk of flood consequences to businesses / properties where defences currently exist	Asset management plan or similar is created	EAW - SEFRMS	EAW, CCW, Newport Council, Monmouthshi re Council, IDB	SEFRMS, Wye and Usk CFMP - PU2, action 3, 4
5.2	CALD1	Newport / Monmouthshire	Wales	Undertake research involving stakeholders to identify where (and when) MR could take place within the Policy Unit in the medium and longer terms. Study should look at minor, staged and larger, long term MR options	To identify areas of MR that can be practically implemented. To involve stakeholders and landowners in the management process	Stakeholders / landowners are aware of the need and reasons for MR. Stakeholders / landowners are involved in the process to identify areas for MR. Areas for MR that can be implemented are identified.	EAW	CCW, Newport Council, Monmouthshi re Council, IDB, GGAT, stakeholders	SEFRMS, SAC Regulation 33 advice, SSSI management plans, BAP management plans, Regional Habitat plans
5.3	CALD1	Newport / Monmouthshire	Wales	Ensure environmental issues are taken into account in the design / construction of new defences. Ensure any works adhere to agreed working practices e.g. to prevent disturbance to birds	Environment is not damaged by flood defence construction	EIA is carried out	EAW	EAW, CCW, LA	SAC Regulation 33 advice, SSSI management plans, BAP management plans

Action no.	Policy Unit	Local Authority area	Country	Action	Objective	Indicator	Lead partner	Other partners	Links to other plans
5.4	CALD1	Newport / Monmouthshire	Wales	Engage with GGAT / Cadw on replacement of defences / flood risk management	Historic environment is not damaged by flood defence construction / flood risk management actions	EIA is carried out	EAW	GGAT, Cadw	other plans
5.5	CALD1	Newport / Monmouthshire	Wales	SMP2 is taken into account in Strategic Flood Consequence Assessments for Council development / land use plans	To ensure integration of flood risk management plans and development plans	Development plans make reference to SMP2	Newport Council / Monmouthshi re Council	EAW	SEFRMS, Local Flood Risk Strategy, Wye and Usk CFMP - PU2, action 1, planning documents
5.6	CALD1	Newport / Monmouthshire	Wales	Identify how the Wales Coastal path may be re-routed under MR	Wales Coastal Path remains operational as shoreline evolves	coastal path is operational	Newport Council / Monmouthshi re Council	EAW, WAG,	
5.7	CALD1	Newport / Monmouthshire	Wales	Encourage utility providers (water and electricity) to undertake an assessment of the current and future risks and resilience of their assets to flooding. Develop a flood resilience and adaptation plan as appropriate.	To better understand the risks to the water and electricity networks and how they can be managed	Report is produced. Plans / actions developed	EAW	Western Power Distribution, DCWW	
5.8	CALD1	Newport / Monmouthshire	Wales	Put in place monitoring programme of erosion rates and salt marsh levels/extent	Provide more data for future management decisions, SMP2 updates, for Wales Coastal Monitoring Centre, habitat creation needs, SAC	Monitoring data is collected	EAW	EAW, CCW, WAG	SEFRMS, SAC Regulation 33 advice, SSSI management plans, BAP management

Action no.	Policy Unit	Local Authority area	Country	Action	Objective	Indicator	Lead partner	Other partners	Links to other plans
110.	Onit	Authority area	Country	Action	management	Indicator	partite	partifers	plans, Regional Habitat plans
5.9	CALD1	Newport / Monmouthshire	Wales	Review the economic value of agricultural land at flood/erosion risk	To better understand the economic and food production importance of the agricultural land at risk	Report is produced	WAG	EAW, IDB	
5.10	CALD1	Monmouthshire	Wales	SMP2 is taken into account in Strategic Flood Consequence Assessments for Council development / land use plans	To ensure integration of flood risk management plans and development plans	Development plans make reference to SMP2	VoG	EAW	SEFRMS, Ogmore- Tawe CFMP - PU12
5.11	CALD2	Monmouthshire	Wales	SMP2 is taken into account in Strategic Flood Consequence Assessments for Council development / land use plans	To ensure integration of flood risk management plans and development plans	Development plans make reference to SMP2	Monmouthshi re Council	EAW	SEFRMS, Local Flood Risk Strategy, Wye and Usk CFMP - PU2, action 1, planning documents
5.12	CALD3	Monmouthshire	Wales	SMP2 is taken into account in Strategic Flood Consequence Assessments for Council development / land use plans	To ensure integration of flood risk management plans and development plans	Development plans make reference to SMP2	Monmouthshi re Council	EAW	SEFRMS, Local Flood Risk Strategy, Wye and Usk CFMP - PU2, action 1, planning documents

Action no.	Policy Unit	Local Authority area	Country	Action	Objective	Indicator	Lead partner	Other partners	Links to other plans
5.13	CALD3	Monmouthshire	Wales	Put in place monitoring programme of erosion rates and salt marsh levels/extent	Provide more data for future management decisions, SMP2 updates, for Wales Coastal Monitoring Centre, habitat creation needs, SAC management	monitoring data is collected	EAW	EAW, CCW, WAG	SEFRMS, SAC Regulation 33 advice, SSSI management plans, BAP management plans, Regional Habitat plans
5.14	CALD3	Monmouthshire	Wales	Review the economic value of agricultural land at flood/erosion risk	To better understand the economic and food production importance of the agricultural land at risk	Report is produced	WAG	EAW, IDB	
5.15	CALD3	Monmouthshire	Wales	SMP2 is taken into account in Strategic Flood Consequence Assessments for Council development / land use plans	To ensure integration of flood risk management plans and development plans	Development plans make reference to SMP2	VoG	EAW	SEFRMS, Ogmore- Tawe CFMP - PU12

Table 3.7 - Chepstow & Wye (WYE)

Action no.	Policy Unit	Local Authority area	Country	Action	Objective	Indicator	Lead partner	Other partners	Links to other plans
6.1	WYE1	Monmouthshire	Wales	SMP2 is taken into account in Strategic Flood Consequence Assessments for Council development / land use plans	To ensure integration of flood risk management plans and development plans	Development plans make reference to SMP2	Monmouthshire Council	EAW	SEFRMS, Local Flood Risk Strategy, Wye and Usk CFMP - PU1, action 1, planning documents
6.2	WYE1	Monmouthshire	Wales	Undertake economic assessment of the cost/benefit of replacing defences	To provide more scheme specific cost data	Report is produced	Defence owner	EAW, Monmouths hire Council	
6.3	WYE1	Monmouthshire	Wales	Make landowners, residents, etc. aware of the likely flood risks in the future.	Businesses / residents are aware of the risks from flooding		EAW	Monmouths hire Council, IDBs	SEFRMS, Wye and Usk CFMP - PU7, actions 7, 8
6.4	WYE1	Monmouthshire	Wales	Identify flood risk management actions to help landowners / residents cope with the results of increased flooding	Businesses / residents are aware of warning systems. Businesses / residents are aware of actions they can take to reduce the consequences of flooding	Impacts of flooding events are limited.	EAW	Monmouths hire Council, EAW, WAG, IDBs	SEFRMS, Wye and Usk CFMP - PU7, actions 7, 8, 13, 14
6.5	WYE1	Monmouthshire	Wales	SMP2 is taken into account in Strategic Flood Consequence Assessments for Council development / land use plans	To ensure integration of flood risk management plans and development plans	Development plans make reference to SMP2	Monmouthshire Council	EAW	SEFRMS, Ogmore- Tawe CFMP - PU12

Action	Policy	Local			21.1			Other	Links to
no.	Unit	Authority area	Country	Action	Objective	Indicator	Lead partner	partners	other plans
6.6	WYE2	Monmouthshire / Forest of Dean	Wales / England	SMP2 is taken into account in Strategic Flood Consequence Assessments / Strategic Flood Risk Assessments for Council development / land use plans	To ensure integration of flood risk management plans and development plans	Development plans make reference to SMP2	Monmouthshire Council / Forest of Dean District Council	EAW, EA	SEFRMS, Local Flood Risk Strategy, Wye and Usk CFMP - PU4, action 2, planning documents
6.7	WYE2	Monmouthshire / Forest of Dean	Wales / England	Undertake economic assessment of the cost/benefit of replacing defences	To provide more scheme specific cost data	Report is produced	Defence owner	EAW, CCW, Monmouths hire Council, Forest of Dean District Council	Wye and Usk CFMP - PU4, action 5
6.8	WYE2	Monmouthshire / Forest of Dean	Wales / England	Make landowners, residents, etc. aware of the likely flood risks in the future.	Businesses / residents are aware of the risks from flooding		EAW/EA	Monmouth Council, Forest of Dean District Council	SEFRMS, Wye and Usk CFMP - PU4, actions 8, 9, 10
6.9	WYE2	Monmouthshire / Forest of Dean	Wales / England	Identify flood risk management actions to help landowners / residents cope with the results of increased flooding	Businesses / residents are aware of warning systems. Businesses / residents are aware of actions they can take to reduce the consequences of flooding	Impacts of flooding events are limited.	EAW / EA	Monmouths hire Council, Forest of Dean District Council, WAG, IDBs	SEFRMS, Wye and Usk CFMP - PU7, actions 8, 9, 10, 11, 12
6.10	WYE2	Monmouthshire / Forest of Dean	Wales	SMP2 is taken into account in Strategic Flood Consequence Assessments / Strategic Flood Risk Assessments for	To ensure integration of flood risk management plans and development plans	Development plans make reference to SMP2	Monmouthshire Council	EAW	SEFRMS, Ogmore- Tawe CFMP - PU12

Action no.	Policy Unit	Local Authority area	Country	Action	Objective	Indicator	Lead partner	Other partners	Links to other plans
				Council development / land use plans					
6.11	WYE3	Forest of Dean	England	SMP2 is taken into account in Strategic Flood Risk Assessments for Council development / land use plans	To ensure integration of flood risk management plans and development plans	Development plans make reference to SMP2	Forest of Dean District Council	EA	SEFRMS, Local Flood Risk Strategy, Wye and Usk CFMP - PU1, action 1, planning documents
6.12	WYE4	Forest of Dean	England	SMP2 is taken into account in Strategic Flood Risk Assessments for Council development / land use plans	To ensure integration of flood risk management plans and development plans	Development plans make reference to SMP2	Forest of Dean District Council	EA	SEFRMS, Local Flood Risk Strategy, Wye and Usk CFMP - PU2, action 1, planning documents

Table 3.8 - Tidenham & Surrounding Villages (TID)

Action no.	Policy Unit	Local Authority area	Country	Action	Objective	Indicator	Lead partner	Other partners	Links to other plans
7.1	TID1	Forest of Dean	England	SMP2 is taken into account in Strategic Flood Risk Assessments for Council development / land use plans	To ensure integration of flood risk management plans and development plans	Development plans make reference to SMP2	Forest of Dean District Council	EA	SEFRMS, Local Flood Risk Strategy
7.2	TID1	Forest of Dean	England	Encourage utility providers (water and electricity) to undertake an assessment of the current and future risks and resilience of their assets to flooding. Develop a flood resilience and adaptation plan as appropriate.	To better understand the risks to the water and electricity networks and how they can be managed	Report is produced. Plans / actions developed	EA	Western Power Distribution / Central Networks, DCWW / Severn Trent	
7.3	TID1	Forest of Dean	England	Investigate the methods to improve the quality and availability of NFCDD data	Improve NFCDD data available for all flood management planning and actions	NFCDD data is up to date and used	EA	Forest of Dean District Council	SEFRMS, Local Flood Risk Strategy, Severn Tidal Tributaries CFMP - PU2
7.4	TID2	Forest of Dean	England	SMP2 is taken into account in Strategic Flood Risk Assessments for Council development / land use plans	To ensure integration of flood risk management plans and development plans	Development plans make reference to SMP2	Forest of Dean District Council	EA	SEFRMS, Local Flood Risk Strategy

Action	Policy	Local Authority					Lead	Other	Links to
no.	Unit	area	Country	Action	Objective	Indicator	partner	partners	other plans
		Forest of		Encourage utility providers (water and electricity) to undertake an assessment of the current and future risks and resilience of their assets to flooding. Develop a flood resilience and adaptation plan as	To better understand the risks to the water and electricity networks and how they can be	Report is produced. Plans / actions		Western Power Distribution / Central Networks, DCWW /	
7.5	TID2	Dean	England	appropriate.	managed	developed	EA	Severn Trent	
7.6	TID2	Forest of Dean	England	Ensure environmental issues are taken into account in the management and maintenance of defences. Ensure any works adhere to agreed working practices e.g. to prevent disturbance to birds	Environment is not damaged by flood defence management	EIA is carried out	EA	EA, NE, Forest of Dean District Council, EH	SAC Regulation 33 advice, SSSI management plans, BAP management plans
7.7	TID2	Forest of Dean	England	Review the economic value of agricultural land at flood/erosion risk	To better understand the economic and food production importance of the agricultural land at risk	Report is produced	Defra	EA, IDB	
7.8	TID2	Forest of Dean	England	Investigate the methods to improve the quality and availability of NFCDD data	Improve NFCDD data available for all flood management planning and actions	NFCDD data is up to date and used	EA	Forest of Dean District Council	SEFRMS, Local Flood Risk Strategy, Severn Tidal Tributaries CFMP - PU2

Table 3.9 – Lydney (LYD)

Action no.	Policy Unit	Local Authority area	Country	Action	Objective	Indicator	Lead partner	Other partners	Links to other plans
8.1	LYD1	Forest of Dean	England	SMP2 is taken into account in Strategic Flood Risk Assessments for Council development / land use plans	To ensure integration of flood risk management plans and development plans	Development plans make reference to SMP2	Forest of Dean District Council	EA	SEFRMS, Local Flood Risk Strategy
8.2	LYD1	Forest of Dean	England	Encourage utility providers (water and electricity) to undertake an assessment of the current and future risks and resilience of their assets to flooding. Develop a flood resilience and adaptation plan as appropriate.	To better understand the risks to the water and electricity networks and how they can be managed	Report is produced. Plans / actions developed	EA	Western Power Distribution / Central Networks, DCWW / Severn Trent	
8.3	LYD1	Forest of Dean	England	Ensure environmental issues are taken into account in the management and maintenance of defences. Ensure any works adhere to agreed working practices e.g. to prevent disturbance to birds	Environment is not damaged by flood defence management	EIA is carried out	EA	EA, NE, Forest of Dean District Council, EH	SAC Regulation 33 advice, SSSI management plans, BAP management plans
8.4	LYD1	Forest of Dean	England	Investigate the methods to improve the quality and availability of NFCDD data	Improve NFCDD data available for all flood management planning and actions	NFCDD data is up to date and used	EA	Forest of Dean District Council	SEFRMS, Local Flood Risk Strategy, Severn Tidal Tributaries CFMP - PU2

Table 3.10 - Lydney to Gloucester (GLO)

Action no.	Policy Unit	Local Authority area	Country	Action	Objective	Indicator	Lead partner	Other partners	Links to other plans
9.1	GLO1	Forest of Dean	England	SMP2 is taken into account in Strategic Flood Risk Assessments for Council development / land use plans	To ensure integration of flood risk management plans and development plans	Development plans make reference to SMP2	Forest of Dean District Council	EA	SEFRMS, Local Flood Risk Strategy
9.2	GLO1	Forest of Dean	England	Encourage Network Rail to undertake an assessment of the current and future risks and resilience to flooding of the railway line. Develop a flood resilience and adaptation plan as appropriate.	To better understand the risks to the rail network and how they can be managed	Report is produced. Plans / actions developed	EA	Network Rail	57
9.3	GLO1	Forest of Dean	England	Encourage utility providers (water and electricity) to undertake an assessment of the current and future risks and resilience of their assets to flooding. Develop a flood resilience and adaptation plan as appropriate.	To better understand the risks to the water and electricity networks and how they can be managed	Report is produced. Plans / actions developed	EA	Central Networks, Severn Trent	
9.4	GLO1	Forest of Dean	England	Put in place monitoring programme of erosion rates	Provide more data for future management decisions, SMP2 updates, for Wales Coastal Monitoring Centre	Monitoring data is collected	EA	Forest of Dean District Council	SEFRMS, Local Flood Risk Strategy
9.5	GLO1	Forest of Dean	England	Investigate the methods to improve the quality and availability of NFCDD data	Improve NFCDD data available for all flood management planning and actions	NFCDD data is up to date and used	EA	Forest of Dean District Council	SEFRMS, Local Flood Risk Strategy, Severn Tidal Tributaries CFMP - PU2

		Local							
Action	Policy	Authority					Lead	Other	Links to other
no.	Unit	area	Country	Action	Objective	Indicator	partner	partners	plans
					Reduce the risk of				
					flood impacts to businesses /				
				Identify where new MR	properties over the				
				defences will be, when	long term. Create			NE, Forest of	
				they will be built and how	new habitat.	New set back		Dean District	SEFRMS,
				they should be	Improve flood plain /	defences are	EA -	Council, IDB,	Local Flood
9.6	GLO2	Forest of Dean	England	constructed	flood storage	created	SEFRMS	stakeholders	Risk Strategy
				Ensure environmental					
				issues are taken into					
				account in the					SAC
				management and maintenance of					Regulation 33
				defences. Ensure any					advice, SSSI
				works adhere to agreed	Environment is not			EA, NE,	management
				working practices e.g. to	damaged by flood			Forest of	plans, BAP
				prevent disturbance to	defence	EIA is carried		Dean District	management
9.7	GLO2	Forest of Dean	England	birds	management	out	EA	Council	plans
									SAC
				Ensure environmental					Regulation 33 advice, SSSI
				issues are taken into	Environment is not			NE, Forest of	management
				account in the design /	damaged by flood			Dean District	plans, BAP
				construction of new	defence	EIA is carried		Council, IDB,	management
9.8	GLO2	Forest of Dean	England	defences	construction	out	EA	stakeholders	plans
					Historic				
					environment is not				
				Engage with English	damaged by flood				
				Heritage / County Archaeologist on	defence construction / flood			NE, Forest of	
				replacement of defences	risk management	EIA is carried		Dean District	
9.9	GLO2	Forest of Dean	England	/ flood risk management	actions	out	EA	Council, EH	
		2.22.2.2.20.1		SMP2 is taken into	To ensure				
				account in Strategic	integration of flood	Development			
				Flood Risk Assessments	risk management	plans make	Forest of		SEFRMS,
				for Council development /	plans and	reference to	Dean District		Local Flood
9.10	GLO2	Forest of Dean	England	land use plans	development plans	SMP2	Council	EA	Risk Strategy

Policy Unit	Authority area	Country	Action					Links to other
			Action	Objective	Indicator	partner	partners	plans
			Review the economic	To better understand the economic and food production importance of the	Report is		EA, IDB, Forest of	
GLO2	Forest of Dean	England	at flood/erosion risk	risk	produced	Defra	Council	
GLO2	Forest of Dean		Investigate the methods to improve the quality and availability of NFCDD data	Improve NFCDD data available for all flood management planning and actions	NFCDD data is up to date and used	EA	Forest of Dean District Council	SEFRMS, Local Flood Risk Strategy, Severn Tidal Tributaries CFMP - PU2
GLO2	Forest of Dean	England	Encourage utility providers (water and electricity) to undertake an assessment of the current and future risks and resilience of their assets to flooding. Develop a flood resilience and adaptation plan as appropriate.	To better understand the risks to the water and electricity networks and how they can be managed	Report is produced. Plans / actions developed	EA	Central Networks, Severn Trent	
			SMP2 is taken into account in Strategic Flood Risk Assessments for Council development /	To ensure integration of flood risk management plans and	Development plans make reference to	Forest of Dean District		SEFRMS, Local Flood Risk Strategy
		,	Encourage Network Rail to undertake an assessment of the current and future risks and resilience to flooding of the railway line. Develop a flood resilience and adaptation	To better understand the risks to the rail network and how they can	Report is produced. Plans / actions			On alogy
	GLO2	GLO2 Forest of Dean GLO3 Forest of Dean	GLO2 Forest of Dean England GLO2 Forest of Dean England GLO3 Forest of Dean England	GLO2 Forest of Dean England Investigate the methods to improve the quality and availability of NFCDD data Encourage utility providers (water and electricity) to undertake an assessment of the current and future risks and resilience and adaptation plan as appropriate. GLO2 Forest of Dean England England SMP2 is taken into account in Strategic Flood Risk Assessments for Council development / land use plans Encourage Network Rail to undertake an assessment of the current and future risks and resilience and adaptation plan as appropriate. GLO3 Forest of Dean England England Ind use plans Encourage Network Rail to undertake an assessment of the current and future risks and resilience to flooding of the railway line. Develop a flood resilience and adaptation	Review the economic value of agricultural land at flood/erosion risk Improve NFCDD data variable for all flood management planning and actions Encourage utility providers (water and electricity) to undertake an assessment of the current and future risks and resilience and adaptation plan as appropriate. GLO2 Forest of Dean England Forest of Dean England En	Review the economic value of agricultural land at flood/erosion risk Investigate the methods to improve the quality and availability of and availability of providers (water and electricity) to undertake an assessment of the current and future risks and resilience and adaptation plan as appropriate. GLO2 Forest of Dean England Forest of Dean England England Encourage Network Rail to undertake an assessment of the current and future risks and resilience and adaptation plan as appropriate. GLO3 Forest of Dean England England	Review the economic value of agricultural land at flood/erosion risk Report is produced Defra	Review the economic value of agricultural land at risk at flood/erosion risk at flood management planning and actions Investigate the methods to improve the quality and availability of NFCDD data and availability of NFCDD data is up to date and used Encourage utility providers (water and electricity) to undertake an assessment of the current and future risks and resilience of their assets to flooding. Develop a flood resilience and adaptation plan as appropriate. GLO2 Forest of Dean England SMP2 Staken into account in Strategic Flood Risk Assessments for Council development / land use plans Encourage Network Rail to undertake an assessment of the current and future risks and resilience to flooding of the railway line. Develop a flood resilience and adaptation Forest of Dean District Council

Policy	Local Authority					Lead	Other	Links to other
Unit	area	Country	Action	Objective	Indicator			plans
GLO3	Forest of Dean	England	Investigate the methods to improve the quality and availability of NFCDD data	Improve NFCDD data available for all flood management planning and actions	NFCDD data is up to date and used	EA	Forest of Dean District Council	SEFRMS, Local Flood Risk Strategy, Severn Tidal Tributaries CFMP - PU2
GLO3	Forest of Dean	England	Encourage utility providers (water and electricity) to undertake an assessment of the current and future risks and resilience of their assets to flooding. Develop a flood resilience and adaptation plan as appropriate.	To better understand the risks to the water and electricity networks and how they can be managed	Report is produced. Plans / actions developed	EA	Central Networks, Severn Trent	
GLO4	Forest of Dean		SMP2 is taken into account in Strategic Flood Risk Assessments for Council development /	To ensure integration of flood risk management plans and	Development plans make reference to SMP2	Forest of Dean District Council	EA	SEFRMS, Local Flood Risk Strategy
CLO4	Forget of Deep	S	Ensure environmental issues are taken into account in the management and maintenance of defences. Ensure any works adhere to agreed working practices e.g. to prevent disturbance to	Environment is not damaged by flood defence	EIA is carried	Defence	EA, NE, Forest of Dean District	SAC Regulation 33 advice, SSSI management plans, BAP management plans
	GLO3	GLO3 Forest of Dean GLO4 Forest of Dean	GLO3 Forest of Dean England GLO4 Forest of Dean England GLO4 Forest of Dean England	Unit area Country Action Investigate the methods to improve the quality and availability of NFCDD data	Unit area Country Action Objective Investigate the methods to improve the quality and availability of NFCDD data available for all flood management planning and actions Encourage utility providers (water and electricity) to undertake an assessment of the current and future risks and resilience of their assets to flooding. Develop a flood resilience and adaptation plan as appropriate. GLO3 Forest of Dean England England SMP2 is taken into account in Strategic Flood Risk Assessments for Council development / land use plans Ensure environmental issues are taken into account in the management and maintenance of defences. Ensure any works adhere to agreed working practices e.g. to prevent disturbance to Environment is not damaged by flood defence	Unit area Country Action Objective Indicator	Unit area Country Action Objective Indicator partner	Unit area Country Action Objective Indicator partner partners Investigate the methods to improve the quality and availability of noingrove the quality and availability of NFCDD data available for all flood management planning and actions Forest of Dean England Encourage utility providers (water and electricity) to undertake an assessment of the current and future risks and resilience of their assets to flooding. Develop a flood resilience and adaptation plan as appropriate. GLO3 Forest of Dean England Ensure environmental issues are taken into account in the management and maintenance of defences. Ensure any works adhere to agreed working practices e.g. to prevent disturbance to prevent disturbance to the prevent disturbance to prevent disturbance to the prevent disturbance to the prevent disturbance to the prevent disturbance to the method at available for all flood management planning and available for all flood management planning and actions NFCDD data is up to date at is up to date and used EA Council Forest of Dean England To better understand the risks to the water and electricity networks and how they can be managed EA Central Networks, Severn Trent

		Local							
Action no.	Policy Unit	Authority area	Country	Action	Objective	Indicator	Lead partner	Other partners	Links to other plans
110.	Oiiit	area	Country	Encourage Network Rail	Objective	ilidicator	partifer	partifers	pians
				to undertake an					
				assessment of the					
				current and future risks and resilience to flooding	To better				
				of the railway line.	understand the risks	Report is			
				Develop a flood	to the rail network	produced.			
9.20	GLO4	Forest of Dean	England	resilience and adaptation plan as appropriate.	and how they can be managed	Plans / actions developed	EA	Network Rail	
5.20	OLO-	1 orest or Dear	Lingiana	рын аз арргорнаю.	be managed	developed	L/\	rectwork real	SEFRMS,
					Improve NFCDD				Local Flood
				Investigate the methods to improve the quality	data available for all flood management	NFCDD data		Forest of	Risk Strategy, Severn Tidal
				and availability of	planning and	is up to date		Dean District	Tributaries
9.21	GLO4	Forest of Dean	England	NFCDD data	actions	and used	EA	Council	CFMP - PU2
				Encourage utility					
				providers (water and electricity) to undertake					
				an assessment of the					
				current and future risks	To better				
				and resilience of their assets to flooding.	understand the risks to the water and	Report is			
				Develop a flood	electricity networks	produced.		Central	
				resilience and adaptation	and how they can	Plans / actions		Networks,	
9.22	GLO4	Forest of Dean	England	plan as appropriate. SMP2 is taken into	be managed To ensure	developed	EA	Severn Trent	
				account in Strategic	integration of flood	Development			
				Flood Risk Assessments	risk management	plans make	Forest of		SEFRMS,
0.00	01.05	Famat of Daga	F. alasad	for Council development /	plans and	reference to	Dean District		Local Flood
9.23	GLO5	Forest of Dean	England	land use plans Ensure environmental	development plans	SMP2	Council	EA	Risk Strategy SSSI
				issues are taken into	Environment is not				management
				account in the	damaged by flood			NE, Forest of	plans, BAP
9.24	GLO5	Forest of Dean	England	management and maintenance of defences	defence	EIA is carried out	EA	Dean District Council, EH	management plans
3.24	GLUS	I diesi di Deali	Liigiaiiu	maintenance of defences	management	Lour	LA	Council, En	μιαιιδ

Action	Policy	Local Authority					Lead	Other	Links to other
no.	Unit	area	Country	Action	Objective	Indicator	partner	partners	plans
9.25	GLO5	Forest of Dean	England	Study of the flood risks to Westbury Court Gardens from Westbury Brook	To better understand the risks of flooding to Westbury Court Gardens and take appropriate action	Report is produced. Plans / actions developed	National Trust	EA, NE, Forest of Dean District Council	
9.26	GLO5	Forest of Dean	England	Review the economic value of agricultural land at flood/erosion risk	To better understand the economic and food production importance of the agricultural land at risk	Report is produced	Defra	EA, IDB, Forest of Dean District Council	
9.27	GLO5	Forest of Dean	England	Investigate the methods to improve the quality and availability of NFCDD data	Improve NFCDD data available for all flood management planning and actions	NFCDD data is up to date and used	EA	Forest of Dean District Council	SEFRMS, Local Flood Risk Strategy, Severn Tidal Tributaries CFMP - PU2
9.28	GLO5	Forest of Dean	England	Encourage utility providers (water and electricity) to undertake an assessment of the current and future risks and resilience of their assets to flooding. Develop a flood resilience and adaptation plan as appropriate.	To better understand the risks to the water and electricity networks and how they can be managed	Report is produced. Plans / actions developed	EA	Central Networks, Severn Trent	
				SMP2 is taken into account in Strategic Flood Risk Assessments	To ensure integration of flood risk management	Development plans make	Forest of		SEFRMS,
				for Council development /	plans and	reference to	Dean District		Local Flood
9.29	GLO6	Forest of Dean	England	land use plans	development plans	SMP2	Council	EA	Risk Strategy

Action no.	Policy Unit	Local Authority area	Country	Action	Objective	Indicator	Lead partner	Other partners	Links to other plans
9.30	GLO6	Forest of Dean	England	Review the economic value of agricultural land at flood/erosion risk	To better understand the economic and food production importance of the agricultural land at risk	Report is produced	Defra	EA, IDB, Forest of Dean District Council	
9.31	GLO6	Forest of Dean	England	Investigate the methods to improve the quality and availability of NFCDD data	Improve NFCDD data available for all flood management planning and actions	NFCDD data is up to date and used	EA	Forest of Dean District Council	SEFRMS, Local Flood Risk Strategy, Severn Tidal Tributaries CFMP - PU2
9.32	GLO6	Forest of Dean	England	Encourage utility providers (water and electricity) to undertake an assessment of the current and future risks and resilience of their assets to flooding. Develop a flood resilience and adaptation plan as appropriate.	To better understand the risks to the water and electricity networks and how they can be managed	Report is produced. Plans / actions developed	EA	Central Networks, Severn Trent	
9.33	GLO7	Forest of Dean		Ensure environmental issues are taken into account in the management and maintenance of defences. Ensure any works adhere to agreed working practices e.g. to prevent disturbance to birds	Environment is not damaged by flood defence management	EIA is carried out	EA	NE, Forest of Dean District Council, EH	Ramsar Site management, SSSI management plans, BAP management plans

Action	Policy	Local Authority					Lead	Other	Links to other
no.	Unit	area	Country	Action	Objective	Indicator	partner	partners	plans
									SEFRMS, SSSI
									management
									plan, Ramsar
									site management,
				Investigate the feasibility	Improve the				BAP
				of improving the condition	condition and	Produce and			management
				of Walmore Common SSSI and increasing its	connectivity of Walmore Common.	implement a water level		EA, IDB, Forest of	plans, Severn Tidal
				size by reconnecting the	Improve flood	management	Natural	Dean District	Tributaries
9.34	GLO7	Forest of Dean	England	river to the floodplain.	conveyance	plan	England	Council	CFMP - PU2
									SEFRMS, SSSI
									management
									plan, Ramsar
									site management,
									BAP
					la success the	Produce and			management
				Undertake a study into	Increase the connection of the	implement a connectivity			plans, Severn Tidal
				opportunities to remove	floodplain with the	improvement			Tributaries
9.35	GLO7	Forest of Dean	England	flood embankments	rivers	plan	EA - CFMP	NE	CFMP - PU2
					To better understand the				
					economic and food				
				Daview the seenemie	production			EA, IDB, Forest of	
				Review the economic value of agricultural land	importance of the agricultural land at	Report is		Dean District	
9.36	GLO7	Forest of Dean	England	at flood/erosion risk	risk	produced	Defra	Council	
					Improve NECDD				SEFRMS,
				Investigate the methods	Improve NFCDD data available for all				Local Flood Risk Strategy,
				to improve the quality	flood management	NFCDD data		Forest of	Severn Tidal
0.27	GLO7	Forest of Door	England	and availability of NFCDD data	planning and	is up to date	EA	Dean District Council	Tributaries CFMP - PU2
9.37	GLO/	Forest of Dean	England	INFODD data	actions	and used	LA	Council	OFIVIF - PUZ

Action	Policy	Local Authority					Lead	Other	Links to other
no.	Unit	area	Country	Action	Objective	Indicator	partner	partners	plans
				Encourage utility providers (water and					
				electricity) to undertake					
				an assessment of the current and future risks	To better				
				and resilience of their	understand the risks				
				assets to flooding.	to the water and	Report is			
				Develop a flood	electricity networks	produced.		Central	
				resilience and adaptation	and how they can	Plans / actions		Networks,	
9.38	GLO7	Forest of Dean	England	plan as appropriate.	be managed	developed	EA	Severn Trent	
					Reduce the risk of				
				Identify where new	flood consequences	A = = = 1			
				defences will need to be, when they will need to be	to businesses / properties where	Asset management			SEFRMS,
				replaced, how they	defences currently	plan or similar	EA -	EAW, CCW,	Local Flood
9.39	GLO8	Forest of Dean	England	should be constructed	exist	is created	SEFRMS	LA LA	Risk Strategy
				Ensure environmental		10 01001100	0		, and the same of
				issues are taken into					
				account in the design /					
				construction of new					
				defences. Ensure any works adhere to agreed	Environment is not			EA, NE,	
				works adhere to agreed working practices e.g. to	damaged by flood			Forest of	BAP
				prevent disturbance to	defence	EIA is carried		Dean District	management
9.40	GLO8	Forest of Dean	England	birds	construction	out	EA	Council	plans
					Historic				
					environment is not				
				Engage with English	damaged by flood				
				Heritage / County Archaeologist on	defence construction / flood			NE, Forest of	
				replacement of defences	risk management	EIA is carried		Dean District	
9.41	GLO8	Forest of Dean	England	/ flood risk management	actions	out	EA	Council, EH	
				SMP2 is taken into	To ensure			,	
				account in Strategic	integration of flood	Development			
				Flood Risk Assessments	risk management	plans make	Forest of		SEFRMS,
0.40	01.00	Farest of Decision	Familia a d	for Council development /	plans and	reference to	Dean District		Local Flood
9.42	GLO8	Forest of Dean	England	land use plans	development plans	SMP2	Council	EA	Risk Strategy

Action	Policy	Local Authority					Lead	Other	Links to other
no.	Unit	area	Country	Action	Objective	Indicator	partner	partners	plans
9.43	GLO8	Forest of Dean	England	Review the economic value of agricultural land at flood/erosion risk	To better understand the economic and food production importance of the agricultural land at risk	Report is produced	Defra	EA, IDB, Forest of Dean District Council	
9.44	GLO8	Forest of Dean	England	Investigate the methods to improve the quality and availability of NFCDD data	Improve NFCDD data available for all flood management planning and actions	NFCDD data is up to date and used	EA	Forest of Dean District Council	SEFRMS, Local Flood Risk Strategy, Severn Tidal Tributaries CFMP - PU2
				Encourage utility providers (water and electricity) to undertake an assessment of the current and future risks and resilience of their assets to flooding. Develop a flood resilience and adaptation	To better understand the risks to the water and electricity networks and how they can	Report is produced. Plans / actions		Central Networks,	
9.45	GLO8	Forest of Dean	England	plan as appropriate.	be managed	developed	EA	Severn Trent	

Table 3.11 - Gloucester to Haw Bridge (MAI)

Action	Policy	Local Authority					Lead	Other	Links to other
no.	Unit	area	Country	Action	Objective	Indicator	partner	partners	plans
			,		Reduce the risk of				
					flood impacts to				
				Identify where new	businesses /			NE,	
				MR defences will be,	properties over the			Tewkesbury	
				when they will be built	long term. Create new	New set back		Borough	SEFRMS,
				and how they should	habitat. Improve flood	defences are	EA -	Council, IDB,	Local Flood
10.1	MAI1	Tewkesbury	England	be constructed	plain / flood storage	created	SEFRMS	stakeholders	Risk Strategy
				Ensure environmental					
				issues are taken into					
				account in the					
				management and					
				maintenance of					SAC
				defences. Ensure					Regulation 33
				any works adhere to				N.E	advice, SSSI
				agreed working	F ' 1 ' 1			NE,	management
				practices e.g. to	Environment is not	FIA 's semiled		Tewkesbury	plans, BAP
40.0	NANIA	Tandradarim	F.,	prevent disturbance to	damaged by flood	EIA is carried		Borough	management
10.2	MAI1	Tewkesbury	England	birds	defence management	out	EA	Council, EH	plans
				Ensure environmental					
				issues are taken into account in the design					
				/ construction of new					SAC
				defences. Ensure					Regulation 33
				any works adhere to				NE,	advice, SSSI
				agreed working				Tewkesbury	management
				practices e.g. to	Environment is not			Borough	plans, BAP
				prevent disturbance to	damaged by flood	EIA is carried		Council, IDB,	management
10.3	MAI1	Tewkesbury	England	birds	defence construction	out	EA	stakeholders	plans
1212		311112 212 311 9		Engage with English			-		1
				Heritage / County	Historic environment is				
				Archaeologist on	not damaged by flood			NE,	
				replacement of	defence construction /			Tewkesbury	
				defences / flood risk	flood risk management	EIA is carried		Borough	
10.4	MAI1	Tewkesbury	England	management	actions	out	EA	Council, EH	

Action no.	Policy Unit	Local Authority area	Country	Action	Objective	Indicator	Lead partner	Other partners	Links to other plans
10.5	MAI1	Tewkesbury	England	SMP2 is taken into account in Strategic Flood Risk Assessments for Council development / land use plans	To ensure integration of flood risk management plans and development plans	Development plans make reference to SMP2	Tewkesbury Borough Council	EA	SEFRMS, Local Flood Risk Strategy
10.6	MAI1	Tewkesbury	England	Undertake a study into opportunities to remove flood embankments	Increase the connection of the floodplain with the rivers	Produce and implement a connectivity improvement plan	EA - CFMP	NE	SEFRMS, SSSI management plan, Ramsar site management, BAP management plans, Severn Tidal Tributaries CFMP - PU3
10.7	MAI1	Tewkesbury	England	Investigate the methods to improve the quality and availability of NFCDD data	Improve NFCDD data available for all flood management planning and actions	NFCDD data is up to date and used	EA	Tewkesbury Borough Council	SEFRMS, Local Flood Risk Strategy, Severn Tidal Tributaries CFMP - PU3
10.8	MAI1	Tewkesbury	England	Review the economic value of agricultural land at flood/erosion risk	To better understand the economic and food production importance of the agricultural land at risk	Report is produced	Defra	EA, IDB, Tewkesbury Borough Council	
10.9	MAI1	Tewkesbury	England	Undertake a study into opportunities to remove flood embankments	Increase the connection of the floodplain with the rivers	Produce and implement a connectivity improvement plan	EA - CFMP	NE	SEFRMS, SSSI management plan, Ramsar site management, BAP management plans, Severn

Action no.	Policy Unit	Local Authority area	Country	Action	Objective	Indicator	Lead partner	Other partners	Links to other plans
									Tidal Tributaries CFMP - PU3
10.10	MAI1	Tewkesbury	England	Encourage utility providers (water and electricity) to undertake an assessment of the current and future risks and resilience of their assets to flooding. Develop a flood resilience and adaptation plan as appropriate.	To better understand the risks to the water and electricity networks and how they can be managed	Report is produced. Plans / actions developed	EA	Central Networks, Severn Trent	
10.11	MAI2	Tewkesbury	England	Identify where new defences will need to be, when they will need to be replaced, how they should be constructed	Reduce the risk of flood impacts to businesses / properties over the long term. Create new habitat. Improve flood plain / flood storage	New set back defences are created	EA - SEFRMS	NE, Tewkesbury Borough Council, IDB, stakeholders	SEFRMS, Local Flood Risk Strategy
10.12	MAI2	Tewkesbury	England	Ensure environmental issues are taken into account in the management and maintenance of defences. Ensure any works adhere to agreed working practices e.g. to prevent disturbance to	Environment is not damaged by flood defence management	EIA is carried out	EA	NE, Tewkesbury Borough Council, EH	SAC Regulation 33 advice, SSSI management plans, BAP management plans

Action	Policy	Local Authority	0	Action	Objective	la d'antan	Lead	Other	Links to other
no.	Unit	area	Country	Action	Objective	Indicator	partner	partners	plans
				birds					
				Ensure environmental issues are taken into account in the design / construction of new defences. Ensure any works adhere to agreed working practices e.g. to prevent disturbance to	Environment is not damaged by flood	EIA is carried		NE, Tewkesbury Borough Council, IDB,	SAC Regulation 33 advice, SSSI management plans, BAP management
10.13	MAI2	Tewkesbury	England	birds	defence construction	out	EA	stakeholders	plans
10.14	MAI2	Tewkesbury	England	Engage with English Heritage / County Archaeologist on replacement of defences / flood risk management	Historic environment is not damaged by flood defence construction / flood risk management actions	EIA is carried out	EA	NE, Tewkesbury Borough Council, EH	
10.15	MAI2	Tewkesbury	England	SMP2 is taken into account in Strategic Flood Risk Assessments for Council development / land use plans	To ensure integration of flood risk management plans and development plans	Development plans make reference to SMP2	Tewkesbury Borough Council	EA	SEFRMS, Local Flood Risk Strategy
			V	Undertake a study into opportunities to	Increase the connection of the	Produce and implement a connectivity			SEFRMS, SSSI management plan, Ramsar site management, BAP management
10.16	MAI2	Tewkesbury	England	remove flood embankments	floodplain with the rivers	improvement plan	EA - CFMP	NE	plans, Severn Tidal

Action no.	Policy Unit	Local Authority area	Country	Action	Objective	Indicator	Lead partner	Other partners	Links to other plans
									Tributaries CFMP - PU3
10.17	MAI2	Tewkesbury	England	Investigate the methods to improve the quality and availability of NFCDD data	Improve NFCDD data available for all flood management planning and actions	NFCDD data is up to date and used	EA	Tewkesbury Borough Council	SEFRMS, Local Flood Risk Strategy, Severn Tidal Tributaries CFMP - PU3
10.18	MAI2	Tewkesbury	England	Review the economic value of agricultural land at flood/erosion risk	To better understand the economic and food production importance of the agricultural land at risk	Report is produced	Defra	EA, IDB, Tewkesbury Borough Council	
10.19	MAI2	Tewkesbury	England	Encourage utility providers (water and electricity) to undertake an assessment of the current and future risks and resilience of their assets to flooding. Develop a flood resilience and adaptation plan as appropriate.	To better understand the risks to the water and electricity networks and how they can be managed	Report is produced. Plans / actions developed	EA	Central Networks, Severn Trent	
10.20	MAI3	Tewkesbury		SMP2 is taken into account in Strategic Flood Risk Assessments for Council development / land use plans	To ensure integration of flood risk management plans and development plans	Development plans make reference to SMP2	Tewkesbury Borough Council	EA	SEFRMS, Local Flood Risk Strategy

Action no.	Policy Unit	Local Authority area	Country	Action	Objective	Indicator	Lead partner	Other partners	Links to other
10.21	MAI3	Tewkesbury	England	Make landowners, residents, etc. aware of the likely flood risks in the future.	Landowners / residents are aware of the risks from flooding		EA	Tewkesbury Borough Council, IDBs	SEFRMS, Severn Tidal Tributaries CFMP - PU3
10.22	MAI3	Tewkesbury	England	Identify flood risk management actions to help landowners / residents cope with the results of increased flooding	Landowners / residents are aware of warning systems. Landowners / residents are aware of actions they can take to reduce the consequences of flooding	Impacts of flooding events are limited.	EA	Tewkesbury Borough Council, IDBs	SEFRMS, Severn Tidal Tributaries CFMP - PU3
10.23	MAI3	Tewkesbury	England	Investigate the methods to improve the quality and availability of NFCDD data	Improve NFCDD data available for all flood management planning and actions	NFCDD data is up to date and used	EA	Tewkesbury Borough Council	SEFRMS, Local Flood Risk Strategy, Severn Tidal Tributaries CFMP - PU3
10.24	MAI3	Tewkesbury	England	Review the economic value of agricultural land at flood/erosion risk	To better understand the economic and food production importance of the agricultural land at risk	Report is produced	Defra	EA, IDB, Tewkesbury Borough Council	
									SEFRMS, SSSI management plan, Ramsar site management, BAP
10.25	MAI3	Tewkesbury	England	Undertake a study into opportunities to remove flood embankments	Increase the connection of the floodplain with the rivers	Produce and implement a connectivity improvement plan	EA - CFMP	NE	management plans, Severn Tidal Tributaries CFMP - PU3

Action	Policy Unit	Local Authority area	Country	Action	Objective	Indicator	Lead	Other	Links to other
no.	Unit	area	Country		Objective	indicator	partner	partners	plans
				Encourage utility providers (water and					
				electricity) to					
				undertake an					
				assessment of the					
				current and future					
				risks and resilience of					
				their assets to	To better understand				
				flooding. Develop a	the risks to the water	Report is			
				flood resilience and	and electricity	produced.		Central	
				adaptation plan as	networks and how they	Plans / actions		Networks,	
10.26	MAI3	Gloucester	England	appropriate.	can be managed	developed	EA	Severn Trent	
				Ensure environmental					
				issues are taken into					
				account in the					
				management and					0.4.0
				maintenance of					SAC
				defences. Ensure any works adhere to					Regulation 33 advice, SSSI
				agreed working					management
				practices e.g. to	Environment is not			EA, NE,	plans, BAP
				prevent disturbance to	damaged by flood	EIA is carried		Gloucester	management
10.27	MAI4	Gloucester	England	birds	defence management	out	EA	City Council	plans
			<u> </u>	SMP2 is taken into				, , , , , , ,	
				account in Strategic	To ensure integration				
				Flood Risk	of flood risk	Development			
				Assessments for	management plans	plans make			SEFRMS,
				Council development /	and development	reference to	Gloucester		Local Flood
10.28	MAI4	Gloucester	England	land use plans	plans	SMP2	City Council	EA	Risk Strategy
				Make landowners,	l				SEFRMS,
				residents, etc. aware	Landowners /			Gloucester	Severn Tidal
40.00				of the likely flood risks	residents are aware of			City Council,	Tributaries
10.29	MAI4	Gloucester	England	in the future.	the risks from flooding		EA	IDBs	CFMP - PU3

Action no.	Policy Unit	Local Authority area	Country	Action	Objective	Indicator	Lead partner	Other partners	Links to other plans
10.30	MAI4	Gloucester	England	Identify flood risk management actions to help landowners / residents cope with the results of increased flooding	Landowners / residents are aware of warning systems. Landowners / residents are aware of actions they can take to reduce the consequences of flooding	Impacts of flooding events are limited.	EA	Gloucester City Council, IDBs	SEFRMS, Severn Tidal Tributaries CFMP - PU3
10.31	MAI4	Gloucester	England	Investigate the methods to improve the quality and availability of NFCDD data	Improve NFCDD data available for all flood management planning and actions	NFCDD data is up to date and used	EA	Gloucester City Council	SEFRMS, Local Flood Risk Strategy, Severn Tidal Tributaries CFMP - PU3
10.32	MAI4	Gloucester	England	Review the economic value of agricultural land at flood/erosion risk	To better understand the economic and food production importance of the agricultural land at risk	Report is produced	Defra	EA, Gloucester City Council, IDBs	
				Undertake a study into opportunities to remove flood	Increase the connection of the floodplain with the	Produce and implement a connectivity improvement			SEFRMS, SSSI management plan, Ramsar site management, BAP management plans, Severn Tidal Tributaries
10.33	MAI4	Gloucester	England	embankments	rivers	plan	EA - CFMP	NE	CFMP - PU3

Action no.	Policy Unit	Local Authority area	Country	Action	Objective	Indicator	Lead partner	Other partners	Links to other plans
				Encourage utility providers (water and electricity) to undertake an assessment of the current and future risks and resilience of their assets to flooding. Develop a flood resilience and	To better understand the risks to the water and electricity networks and how they	Report is produced.		Central Networks,	
10.34	MAI4	Gloucester	England	adaptation plan as appropriate.	can be managed	developed	EA	Severn Trent	
10.35	MAI5	Gloucester	England	Ensure environmental issues are taken into account in the management and maintenance of defences. Ensure any works adhere to agreed working practices e.g. to prevent disturbance to birds	Environment is not damaged by flood defence management	EIA is carried out	EA	EA, NE, Gloucester City Council	SAC Regulation 33 advice, SSSI management plans, BAP management plans
10.36	MAI5	Gloucester	England	SMP2 is taken into account in Strategic Flood Risk Assessments for Council development / land use plans	To ensure integration of flood risk management plans and development plans	Development plans make reference to SMP2	Gloucester City Council	EA	SEFRMS, Local Flood Risk Strategy
10.37	MAI5	Gloucester	England	Investigate the methods to improve the quality and availability of NFCDD data	Improve NFCDD data available for all flood management planning and actions	NFCDD data is up to date and used	EA	Gloucester City Council	SEFRMS, Local Flood Risk Strategy, Severn Tidal Tributaries CFMP - PU3

Action no.	Policy Unit	Local Authority area	Country	Action	Objective	Indicator	Lead partner	Other partners	Links to other plans
10.38	MAI5	Gloucester	England	Review the economic value of agricultural land at flood/erosion risk	To better understand the economic and food production importance of the agricultural land at risk	Report is produced	Defra	EA, Gloucester City Council, IDBs	
10.39	MAI5	Gloucester	England	Undertake a study into opportunities to remove flood embankments	Increase the connection of the floodplain with the rivers	Produce and implement a connectivity improvement plan	EA - CFMP	NE	SEFRMS, SSSI management plan, Ramsar site management, BAP management plans, Severn Tidal Tributaries CFMP - PU3
10.40	MAI5	Gloucester	England	Encourage utility providers (water and electricity) to undertake an assessment of the current and future risks and resilience of their assets to flooding. Develop a flood resilience and adaptation plan as appropriate.	To better understand the risks to the water and electricity networks and how they can be managed	Report is produced. Plans / actions developed	EA	Central Networks, Severn Trent	
10.41	MAI6	Gloucester	England	Identify where new defences will need to be, when they will need to be replaced, how they should be constructed	Reduce the risk of flood impacts to businesses / properties over the long term. Create new habitat. Improve flood plain / flood storage	New set back defences are created	EA - SEFRMS	NE, Gloucester City Council, IDB, stakeholders	SEFRMS, Local Flood Risk Strategy

Action	Policy	Local Authority					Lead	Other	Links to other
no.	Unit	area	Country	Action	Objective	Indicator	partner	partners	plans
10.42	MAI6	Gloucester	England	Ensure environmental issues are taken into account in the management and maintenance of defences. Ensure any works adhere to agreed working practices e.g. to prevent disturbance to birds	Environment is not damaged by flood defence management	EIA is carried out	EA	EA, NE, Gloucester City Council	SAC Regulation 33 advice, SSSI management plans, BAP management plans
10.43	MAI6	Gloucester	England	Ensure environmental issues are taken into account in the design / construction of new defences. Ensure any works adhere to agreed working practices e.g. to prevent disturbance to birds	Environment is not damaged by flood defence construction	EIA is carried out	EA	NE, Gloucester City Council, IDB, stakeholders	SAC Regulation 33 advice, SSSI management plans, BAP management plans
10.44	MAI6	Gloucester	England	Engage with English Heritage / County Archaeologist on replacement of defences / flood risk management	Historic environment is not damaged by flood defence construction / flood risk management actions	EIA is carried out	EA	NE, Gloucester City Council, EH	
10.45	MAI6	Gloucester	England	SMP2 is taken into account in Strategic Flood Risk Assessments for Council development / land use plans	To ensure integration of flood risk management plans and development plans	Development plans make reference to SMP2	Gloucester City Council	EA	SEFRMS, Local Flood Risk Strategy
10.46	MAI6	Gloucester	England	Investigate the methods to improve the quality and availability of NFCDD data	Improve NFCDD data available for all flood management planning and actions	NFCDD data is up to date and used	EA	Gloucester City Council	SEFRMS, Local Flood Risk Strategy, Severn Tidal Tributaries

Action no.	Policy Unit	Local Authority area	Country	Action	Objective	Indicator	Lead partner	Other partners	Links to other plans
									CFMP - PU3
				Review the economic	To better understand the economic and food			EA,	
				value of agricultural	production importance			Gloucester	
10.47	MAI6	Gloucester	England	land at flood/erosion risk	of the agricultural land at risk	Report is produced	Defra	City Council, IDBs	
				Encourage utility					
				providers (water and electricity) to					
				undertake an assessment of the					
				current and future					
				risks and resilience of their assets to	To better understand				
				flooding. Develop a	the risks to the water	Report is			
				flood resilience and adaptation plan as	and electricity networks and how they	produced. Plans / actions		Central Networks,	
10.48	MAI6	Gloucester	England	appropriate.	can be managed	developed	EA	Severn Trent	

Table 3.12 - Gloucester to Sharpness (SHAR)

Action no.	Policy Unit	Local Authority area	Country	Action	Objective	Indicator	Lead partner	Other partners	Links to other plans
11.1	SHAR1	Stroud	England	Ensure environmental issues are taken into account in the management and maintenance of defences. Ensure any works adhere to agreed working practices e.g. to prevent disturbance to birds	Environment is not damaged by flood defence management	EIA is carried out	EA	NE, Stroud District Council, EH	BAP management plans
11.2	SHAR1	Stroud	England	Undertake research to identify where new MR defences should be (for construction in 20-50 epoch). Stakeholders should be involved in the discussions	To identify areas of MR that can be practically implemented. To involve stakeholders and landowners in the process	Stakeholders / landowners are aware of the need and reasons for MR. Stakeholders / landowners are involved in the process to identify areas for MR. Areas for MR that can be implemented are identified.	EA - SEFRMS	NE, Stroud District Council, IDB, EH, stakeholders	SEFRMS, Local Flood Risk Strategies, BAP management plans, Severn Tidal Tributaries CFMP - PU2
11.3	SHAR1	Stroud	England	SMP2 is taken into account in Strategic Flood Risk Assessments for Council development / land use plans	To ensure integration of flood risk management plans and development plans	Development plans make reference to SMP2	Stroud District Council	EA	SEFRMS, Local Flood Risk Strategy
11.4	SHAR1	Stroud	England	Review the economic value of agricultural land at flood/erosion risk	To better understand the economic and food production importance of the agricultural land at risk	Report is produced	Defra	EA, Stroud District Council, IDBs	

Action	Policy	Local Authority					Lead	Other	Links to
no.	Unit	area	Country	Action	Objective	Indicator	partner	partners	other plans
110.	Oint	uica	Country	Action	Objective	maidatoi	partite	partitors	SEFRMS, BAP management
				Undertake a study into opportunities to remove flood	Increase the connection of the floodplain with the	Produce and implement a connectivity		NE, Stroud District Council, IDB,	plans, Severn Tidal Tributaries
11.5	SHAR1	Stroud	England	embankments	rivers	improvement plan	EA - CFMP	stakeholders	CFMP - PU2
				Encourage utility providers (water and electricity) to undertake an assessment of the current and future risks and resilience of their assets to flooding. Develop a flood resilience and adaptation plan as	To better understand the risks to the water and electricity networks and how they can be	Report is produced. Plans / actions		Central Networks,	
11.6	SHAR1	Stroud	England	appropriate. Ensure environmental issues are taken into account in the management and maintenance of defences. Ensure any works adhere to agreed working practices e.g. to	Environment is not damaged by flood	developed	EA	NE, Stroud	BAP
117	SHAR2	Stroud	England	prevent disturbance	defence	FIΔ is carried out	FΔ	District	management
11.7	SHAR2	Stroud	England	to birds	management	EIA is carried out	EA	Council, EH	plans

Action	Policy	Local Authority					Lead	Other	Links to
no.	Unit	area	Country	Action	Objective	Indicator	partner	partners	other plans
						Stakeholders /			
						landowners are aware of the need			SEFRMS,
						and reasons for MR.			Local Flood
				Undertake research		Stakeholders /			Risk
				to identify where new	To identify areas of	landowners are			Strategies,
				MR defences should	MR that can be	involved in the		NE, Stroud	BAP
				be (for construction in	practically	process to identify		District	management
				20-50 epoch). Stakeholders should	implemented. To involve stakeholders	areas for MR. Areas for MR that can be		Council, IDB,	plans, Severn Tidal
				be involved in the	and landowners in	implemented are	EA -	English Heritage,	Tributaries
11.8	SHAR2	Stroud	England	discussions	the process	identified.	SEFRMS	stakeholders	CFMP - PU2
				OMBO is tall as inte	'				
				SMP2 is taken into account in Strategic	To ensure				
				Flood Risk	integration of flood				SEFRMS,
				Assessments for	risk management	Development plans	Stroud		Local Flood
				Council development	plans and	make reference to	District		Risk
11.9	SHAR2	Stroud	England	/ land use plans	development plans	SMP2	Council	EA	Strategy
					To better understand				
				Review the economic	the economic and food production			EA, Stroud	
				value of agricultural	importance of the			District	
				land at flood/erosion	agricultural land at			Council,	
11.10	SHAR2	Stroud	England	risk	risk	Report is produced	Defra	IDBs	
									SEFRMS,
									BAP
				Undertake a study	Increase the	Produce and		NE, Stroud	management plans,
				into opportunities to	connection of the	implement a		District	Severn Tidal
				remove flood	floodplain with the	connectivity		Council, IDB,	Tributaries
11.11	SHAR2	Stroud	England	embankments	rivers	improvement plan	EA - CFMP	stakeholders	CFMP - PU2

Action	Policy	Local Authority					Lead	Other	Links to
no.	Unit	area	Country	Action	Objective	Indicator	partner	partners	other plans
				Encourage utility providers (water and electricity) to undertake an assessment of the current and future risks and resilience of their assets to flooding. Develop a flood resilience and adaptation plan as	To better understand the risks to the water and electricity networks and how they can be	Report is produced. Plans / actions		Central Networks,	
11.12	SHAR2	Stroud	England	appropriate.	managed	developed	EA	Severn Trent	
11.13	SHAR3	Stroud	England	Ensure environmental issues are taken into account in the management and maintenance of defences. Ensure any works adhere to agreed working practices e.g. to prevent disturbance to birds	Environment is not damaged by flood defence management	EIA is carried out	EA	NE, Stroud District Council, EH	BAP management plans
11.14	SHAR3	Stroud	England	SMP2 is taken into account in Strategic Flood Risk Assessments for Council development / land use plans	To ensure integration of flood risk management plans and development plans	Development plans make reference to SMP2	Stroud District Council	EA	SEFRMS, Local Flood Risk Strategy
11.15	SHAR3	Stroud	England	Review the economic value of agricultural land at flood/erosion risk	To better understand the economic and food production importance of the agricultural land at risk	Report is produced	Defra	EA, Stroud District Council, IDBs	

Action	Policy	Local Authority					Lead	Other	Links to
no.	Unit	area	Country	Action	Objective	Indicator	partner	partners	other plans
110.	- Clint	urcu	Journal	Addidit	- Cajedire	maioacor	partitor	partitors	SEFRMS, BAP management
				Undertake a study into opportunities to remove flood	Increase the connection of the floodplain with the	Produce and implement a connectivity		NE, Stroud District Council, IDB,	plans, Severn Tidal Tributaries
11.16	SHAR3	Stroud	England	embankments	rivers	improvement plan	EA - CFMP	stakeholders	CFMP - PU2
				Encourage utility providers (water and electricity) to undertake an assessment of the current and future risks and resilience of their assets to flooding. Develop a flood resilience and adaptation plan as	To better understand the risks to the water and electricity networks and how they can be	Report is produced. Plans / actions		Central Networks,	
11.17	SHAR3	Stroud	England	appropriate. Ensure environmental issues are taken into account in the management and maintenance of defences. Ensure any works adhere to agreed working practices e.g. to	Environment is not damaged by flood	developed	EA	NE, Stroud	ВАР
11 18	SHAR4	Stroud	England	prevent disturbance	defence	FIΔ is carried out	FΔ	District	management
11.18	SHAR4	Stroud	England	to birds	management	EIA is carried out	EA	Council, EH	plans

Action	Policy	Local Authority					Lead	Other	Links to
no.	Unit	area	Country	Action	Objective	Indicator	partner	partners	other plans
						Stakeholders /			
						landowners are aware of the need			SEFRMS,
						and reasons for MR.			Local Flood
				Undertake research		Stakeholders /			Risk
				to identify where new	To identify areas of	landowners are			Strategies,
				MR defences should	MR that can be	involved in the		NE, Stroud	BAP
				be (for construction in	practically	process to identify		District	management
				20-50 epoch). Stakeholders should	implemented. To involve stakeholders	areas for MR. Areas for MR that can be		Council, IDB,	plans, Severn Tidal
				be involved in the	and landowners in	implemented are	EA -	English Heritage,	Tributaries
11.19	SHAR4	Stroud	England	discussions	the process	identified.	SEFRMS	stakeholders	CFMP - PU2
				OMBO is talked into	'				
				SMP2 is taken into account in Strategic	To ensure				
				Flood Risk	integration of flood				SEFRMS.
				Assessments for	risk management	Development plans	Stroud		Local Flood
				Council development	plans and	make reference to	District		Risk
11.20	SHAR4	Stroud	England	/ land use plans	development plans	SMP2	Council	EA	Strategy
					To better understand				
				Review the economic	the economic and food production			EA, Stroud	
				value of agricultural	importance of the			District	
				land at flood/erosion	agricultural land at			Council,	
11.21	SHAR4	Stroud	England	risk	risk	Report is produced	Defra	IDBs	
									SEFRMS,
									BAP management
				Undertake a study	Increase the	Produce and		NE, Stroud	plans,
				into opportunities to	connection of the	implement a		District	Severn Tidal
				remove flood	floodplain with the	connectivity		Council, IDB,	Tributaries
11.22	SHAR4	Stroud	England	embankments	rivers	improvement plan	EA - CFMP	stakeholders	CFMP - PU2

		Local							
Action no.	Policy Unit	Authority area	Country	Action	Objective	Indicator	Lead partner	Other partners	Links to other plans
11.23	SHAR4	Stroud	England	Encourage utility providers (water and electricity) to undertake an assessment of the current and future risks and resilience of their assets to flooding. Develop a flood resilience and adaptation plan as appropriate.	To better understand the risks to the water and electricity networks and how they can be managed	Report is produced. Plans / actions developed	EA	Central Networks, Severn Trent	•
11.24	SHAR5	Stroud	England	SMP2 is taken into account in Strategic Flood Risk Assessments for Council development / land use plans	To ensure integration of flood risk management plans and development plans	Development plans make reference to SMP2	Stroud District Council	EA	SEFRMS, Local Flood Risk Strategy
11.25	SHAR5	Stroud	England	Review the economic value of agricultural land at flood/erosion risk	To better understand the economic and food production importance of the agricultural land at risk	Report is produced	Defra	EA, Stroud District Council, IDBs	37
11.26	SHAR5	Stroud	England	Encourage utility providers (water and electricity) to undertake an assessment of the current and future risks and resilience of their assets to flooding. Develop a flood resilience and adaptation plan as appropriate.	To better understand the risks to the water and electricity networks and how they can be managed	Report is produced. Plans / actions developed	EA	Central Networks, Severn Trent	

Action	Policy	Local Authority					Lead	Other	Links to
no.	Unit	area	Country	Action	Objective	Indicator	partner	partners	other plans
11.27	SHAR6	Stroud	England	Ensure environmental issues are taken into account in the management and maintenance of defences. Ensure any works adhere to agreed working practices e.g. to prevent disturbance to birds	Environment is not damaged by flood defence management	EIA is carried out	EA	NE, Stroud District Council, EH	SAC Regulation 33 advice, SSSI management plans, BAP management plans
11.28	SHAR6	Stroud	England	SMP2 is taken into account in Strategic Flood Risk Assessments for Council development / land use plans	To ensure integration of flood risk management plans and development plans	Development plans make reference to SMP2	Stroud District Council	EA	SEFRMS, Local Flood Risk Strategy
11.29	SHAR6	Stroud	England	Review the economic value of agricultural land at flood/erosion risk	To better understand the economic and food production importance of the agricultural land at risk	Report is produced	Defra	EA, Stroud District Council, IDBs	
11.30	SHAR6	Stroud	England	Undertake a study into opportunities to remove flood embankments	Increase the connection of the floodplain with the rivers	Produce and implement a connectivity improvement plan	EA	NE, Stroud District Council, IDB, stakeholders	SEFRMS, BAP management plans, Severn Tidal Tributaries CFMP - PU2

		Local							
Action no.	Policy Unit	Authority area	Country	Action	Objective	Indicator	Lead partner	Other partners	Links to other plans
110.	Offic	arca	Journal	Encourage utility	Objective	marcator	partite	partiters	otilei pians
				providers (water and					
				electricity) to					
				undertake an					
				assessment of the					
				current and future risks and resilience of	To better understand				
				their assets to	the risks to the water				
				flooding. Develop a	and electricity				
				flood resilience and	networks and how	Report is produced.		Central	
				adaptation plan as	they can be	Plans / actions		Networks,	
11.31	SHAR6	Stroud	England	appropriate.	managed	developed	EA	Severn Trent	
					Reduce the risk of				
					flood impacts to businesses /				
				Identify where new	properties over the			NE, Stroud	
				MR defences will be,	long term. Create			District	SEFRMS,
				when they will be built	new habitat.			Council, IDB,	Local Flood
				and how they should	Improve flood plain /	New set back	EA -	EH,	Risk
11.32	SHAR7	Stroud	England	be constructed Ensure environmental	flood storage	defences are created	SEFRMS	stakeholders	Strategy
				issues are taken into					
				account in the					
				management and					SAC
				maintenance of					Regulation
				defences. Ensure					33 advice,
				any works adhere to	Environment is not				SSSI
				agreed working practices e.g. to	Environment is not damaged by flood			NE, Stroud	management plans, BAP
				prevent disturbance	defence			District	management
11.33	SHAR7	Stroud	England	to birds	management	EIA is carried out	EA	Council, EH	plans
				Ensure environmental					SAC
				issues are taken into					Regulation
				account in the design / construction of new				NE, Stroud	33 advice, SSSI
				defences. Ensure	Environment is not			District	management
				any works adhere to	damaged by flood			Council, IDB,	plans, BAP
11.34	SHAR7	Stroud	England	agreed working	defence construction	EIA is carried out	EA	stakeholders	management

Action no.	Policy Unit	Local Authority area	Country	Action	Objective	Indicator	Lead partner	Other partners	Links to other plans
				practices e.g. to prevent disturbance to birds					plans
11.35	SHAR7	Stroud	England	Engage with English Heritage / County Archaeologist on replacement of defences / flood risk management	Historic environment is not damaged by flood defence construction / flood risk management actions	EIA is carried out	EA	NE, Stroud District Council, EH	
11.36	SHAR7	Stroud	England	SMP2 is taken into account in Strategic Flood Risk Assessments for Council development / land use plans	To ensure integration of flood risk management plans and development plans	Development plans make reference to SMP2	Stroud District Council	EA	SEFRMS, Local Flood Risk Strategy
11.37	SHAR7	Stroud	England	Review the economic value of agricultural land at flood/erosion risk	To better understand the economic and food production importance of the agricultural land at risk	Report is produced	Defra	EA, Stroud District Council, IDBs	
11.38	SHAR7	Stroud	England	Undertake a study into opportunities to remove flood embankments (links to action 11.32 above)	Increase the connection of the floodplain with the rivers	Produce and implement a connectivity improvement plan	EA - CFMP	NE, Stroud District Council, IDB, stakeholders	SEFRMS, BAP management plans, Severn Tidal Tributaries CFMP - PU2

Unit	Authority					Lead	Other	Links to
Unit	area	Country	Action	Objective	Indicator	partner	partners	other plans
SHAR7	Stroud	England	Encourage utility providers (water and electricity) to undertake an assessment of the current and future risks and resilience of their assets to flooding. Develop a flood resilience and adaptation plan as appropriate.	To better understand the risks to the water and electricity networks and how they can be managed	Report is produced. Plans / actions developed	EA	Central Networks, Severn Trent	
SHAR8	Stroud	England	SMP2 is taken into account in Strategic Flood Risk Assessments for Council development / land use plans	To ensure integration of flood risk management plans and development plans	Development plans make reference to SMP2	Stroud District Council	EA	SEFRMS, Local Flood Risk Strategy
SHAR8	Stroud	England	Review the economic value of agricultural land at flood/erosion risk	To better understand the economic and food production importance of the agricultural land at risk	Report is produced	Defra	EA, Stroud District Council, IDBs	
CHARC	Chronid	Fralend	Encourage utility providers (water and electricity) to undertake an assessment of the current and future risks and resilience of their assets to flooding. Develop a flood resilience and adaptation plan as	To better understand the risks to the water and electricity networks and how they can be	Report is produced. Plans / actions		Central Networks,	
	SHAR8	SHAR8 Stroud SHAR8 Stroud	SHAR8 Stroud England SHAR8 Stroud England	providers (water and electricity) to undertake an assessment of the current and future risks and resilience of their assets to flooding. Develop a flood resilience and adaptation plan as appropriate. SHAR7 Stroud England SMP2 is taken into account in Strategic Flood Risk Assessments for Council development / land use plans SHAR8 Stroud England Review the economic value of agricultural land at flood/erosion risk Encourage utility providers (water and electricity) to undertake an assessment of the current and future risks and resilience of their assets to flooding. Develop a flood resilience and adaptation plan as	providers (water and electricity) to undertake an assessment of the current and future risks and resilience of their assets to flooding. Develop a flood resilience and adaptation plan as appropriate. SHAR7 Stroud England SMP2 is taken into account in Strategic Flood Risk Assessments for Council development plans and development	providers (water and electricity) to undertake an assessment of the current and future risks and resilience of their assets to flooding. Develop a flood resilience and adaptation plan as appropriate. SHAR7 Stroud England SMP2 is taken into account in Strategic Flood Risk Assessments for Council development / land use plans development plans and deve	providers (water and electricity) to undertake an assessment of the current and future risks and resilience of their assets to flooding. Develop a flood resilience and adaptation plan as appropriate. SHAR7 Stroud England SMP2 is taken into account in Strategic Flood Risk Assessments for Council development plans and development	providers (water and electricity) to undertake an assessment of the current and future risks and resilience of their assets to flooding. Develop a flood resilience and adaptation plan as appropriate. SHAR7 Stroud England England England Share Stroud England England England Share Stroud England Share Stroud England England Final Stroud England England Final Stroud England England Final Stroud England Fina

Table 3.13 - Sharpness to Severn Crossings (SEV)

Action	Policy	Local Authority	_				Lead	Other	Links to
no.	Unit	area	Country	Action	Objective	Indicator	partner	partners	other plans
12.1	SEV1	Stroud	England	Ensure environmental issues are taken into account in the management and maintenance of defences. Ensure any works adhere to agreed working practices e.g. to prevent disturbance to birds	Environment is not damaged by flood defence management	EIA is carried out	EA	NE, Stroud District Council, EH	SAC Regulation 33 advice, SSSI management plans, BAP management plans
12.2	SEV1	Stroud	England	SMP2 is taken into account in Strategic Flood Risk Assessments for Council development / land use plans	To ensure integration of flood risk management plans and development plans	Development plans make reference to SMP2	Stroud District Council	EA	SEFRMS, Local Flood Risk Strategy
12.3	SEV1	Stroud	England	Review the economic value of agricultural land at flood/erosion risk	To better understand the economic and food production importance of the agricultural land at risk	Report is produced	Defra	EA, Stroud District Council, IDBs	
12.4	SEV1	Stroud	England	Encourage utility providers (water and electricity) to undertake an assessment of the current and future risks and resilience of their assets to flooding. Develop a flood resilience and adaptation plan as appropriate.	To better understand the risks to the water and electricity networks and how they can be managed	Report is produced. Plans / actions developed	EA	Central Networks, Severn Trent	

Action	Policy	Local Authority					Lead	Other	Links to
no.	Unit	area	Country	Action	Objective	Indicator	partner	partners	other plans
12.5	SEV2	Stroud	England	Ensure environmental issues are taken into account in the management and maintenance of defences. Ensure any works adhere to agreed working practices e.g. to prevent disturbance to birds	Environment is not damaged by flood defence management	EIA is carried out	EA	NE, Stroud District Council, EH	SAC Regulation 33 advice, SSSI management plans, BAP management plans
12.6	SEV2	Stroud	England	SMP2 is taken into account in Strategic Flood Risk Assessments for Council development / land use plans	To ensure integration of flood risk management plans and development plans	Development plans make reference to SMP2	Stroud District Council	EA	SEFRMS, Local Flood Risk Strategy
12.7	SEV2	Stroud	England	Review the economic value of agricultural land at flood/erosion risk	To better understand the economic and food production importance of the agricultural land at risk	Report is produced	Defra	EA, Stroud District Council, IDBs	
12.8	SEV2	Stroud	England	Encourage utility providers (water and electricity) to undertake an assessment of the current and future risks and resilience of their assets to flooding. Develop a flood resilience and adaptation plan as appropriate.	To better understand the risks to the water and electricity networks and how they can be managed	Report is produced. Plans / actions developed	EA	Central Networks, Severn Trent	

Action	Policy	Local Authority					Lead	Other	Links to
no.	Unit	area	Country	Action	Objective	Indicator	partner	partners	other plans
					To better				
					understand the				
					potential risks to				
					people and the				
					environment of				
				Research into the	flooding of erosion				
				contamination of soils	of land surrounding	Report is	Berkeley		
	0-1/2		l	from Berkeley Power	Berkeley Power	produced. Plans /	Power		
12.9	SEV2	Stroud	England	Station	Station	actions developed	Station	EA, HSE	
				Ensure environmental					
				issues are taken into					
				account in the					0.4.0
				management and				NE, Stroud	SAC
				maintenance of defences. Ensure any				District	Regulation 33 advice,
				works adhere to				Council /	SSSI
				agreed working	Environment is not			South	
				practices e.g. to	damaged by flood			Gloucestersh	management plans, BAP
		Stroud / South		prevent disturbance to	defence			ire Council,	management
12.10	SEV3	Gloucestershire	England	birds	management	EIA is carried out	EA	EH	plans
12.10	OLVO	Glodocotoroniio	Lingiana	SMP2 is taken into	management	Lii (lo damea dat	Stroud	L11	piario
				account in Strategic	To ensure		District		
				Flood Risk	integration of flood	Development	Council /		SEFRMS,
				Assessments for	risk management	plans make	South		Local Flood
		Stroud / South		Council development /	plans and	reference to	Gloucestersh		Risk
12.11	SEV3	Gloucestershire	England	land use plans	development plans	SMP2	ire Council	EA	Strategy
		_	<u> </u>	<u>'</u>	To better			EA, Stroud	, , , , , , , , , , , , , , , , , , ,
					understand the			District	
					economic and food			Council /	
				Review the economic	production			South	
				value of agricultural	importance of the			Gloucestersh	
		Stroud / South		land at flood/erosion	agricultural land at	Report is		ire Council,	
12.12	SEV3	Gloucestershire	England	risk	risk	produced	Defra	IDBs	

Action no.	Policy Unit	Local Authority area	Country	Action	Objective	Indicator	Lead partner	Other partners	Links to other plans
12.13	SEV3	Stroud / South Gloucestershire	England	Encourage utility providers (water and electricity) to undertake an assessment of the current and future risks and resilience of their assets to flooding. Develop a flood resilience and adaptation plan as appropriate.	To better understand the risks to the water and electricity networks and how they can be managed	Report is produced. Plans / actions developed	EA	Central Networks, Severn Trent	other plane
12.14	SEV3	Stroud / South Gloucestershire	England	Research into the contamination of soils from Berkeley and Oldbury Power Stations	To better understand the potential risks to people and the environment of flooding of erosion of land surrounding Berkeley and Oldbury Power Stations	Report is produced. Plans / actions developed	Berkeley Power Station, Oldbury Power Station	EA, HSE	
12.15	SEV4	South Gloucestershire	England	Ensure environmental issues are taken into account in the management and maintenance of defences. Ensure any works adhere to agreed working practices e.g. to prevent disturbance to birds	Environment is not damaged by flood defence management	EIA is carried out	EA	NE, South Gloucestersh ire Council, EH	SAC Regulation 33 advice, SSSI management plans, BAP management plans
12.16	SEV4	South Gloucestershire	England	SMP2 is taken into account in Strategic Flood Risk Assessments for Council development / land use plans	To ensure integration of flood risk management plans and development plans	Development plans make reference to SMP2	South Gloucestersh ire Council	EA	SEFRMS, Local Flood Risk Strategy

Action	Policy	Local Authority					Lead	Other	Links to
no.	Unit	area	Country	Action	Objective	Indicator	partner	partners	other plans
12.17	SEV4	South Gloucestershire	England	Review the economic value of agricultural land at flood/erosion risk	To better understand the economic and food production importance of the agricultural land at risk	Report is produced	Defra	EA, South Gloucestersh ire Council, IDBs	
12.18	SEV4	South Gloucestershire	England	Encourage utility providers (water and electricity) to undertake an assessment of the current and future risks and resilience of their assets to flooding. Develop a flood resilience and adaptation plan as appropriate.	To better understand the risks to the water and electricity networks and how they can be managed	Report is produced. Plans / actions developed	EA	Central Networks, Severn Trent	
12.19	SEV4	South Gloucestershire	England	Research into the contamination of soils from Oldbury Power Station	To better understand the potential risks to people and the environment of flooding of erosion of land surrounding Oldbury Power Station	Report is produced. Plans / actions developed	Oldbury Power Station	EA, HSE	
12.20	SEV5	South Gloucestershire	England	Ensure environmental issues are taken into account in the management and maintenance of defences. Ensure any works adhere to agreed working practices e.g. to prevent disturbance to birds	Environment is not damaged by flood defence management	EIA is carried out	EA	NE, South Gloucestersh ire Council, EH	SAC Regulation 33 advice, SSSI management plans, BAP management plans

Action no.	Policy Unit	Local Authority area	Country	Action	Objective	Indicator	Lead partner	Other partners	Links to other plans
12.21	SEV5	South Gloucestershire	England	SMP2 is taken into account in Strategic Flood Risk Assessments for Council development / land use plans	To ensure integration of flood risk management plans and development plans	Development plans make reference to SMP2	South Gloucestersh ire Council	EA	SEFRMS, Local Flood Risk Strategy
12.22	SEV5	South Gloucestershire	England	Review the economic value of agricultural land at flood/erosion risk	To better understand the economic and food production importance of the agricultural land at risk	Report is produced	Defra	EA, South Gloucestersh ire Council, IDBs	
12.23	SEV5	South Gloucestershire	England	Encourage utility providers (water and electricity) to undertake an assessment of the current and future risks and resilience of their assets to flooding. Develop a flood resilience and adaptation plan as appropriate.	To better understand the risks to the water and electricity networks and how they can be managed	Report is produced. Plans / actions developed	EA	Central Networks, Severn Trent	
12.24	SEV6	South Gloucestershire	England	SMP2 is taken into account in Strategic Flood Risk Assessments for Council development / land use plans	To ensure integration of flood risk management plans and development plans	Development plans make reference to SMP2	South Gloucestersh ire Council	EA	SEFRMS, Local Flood Risk Strategy
12.25	SEV6	South Gloucestershire	England	Review the economic value of agricultural land at flood/erosion risk	To better understand the economic and food production importance of the agricultural land at risk	Report is produced	Defra	EA, South Gloucestersh ire Council, IDBs	

Action	Policy	Local Authority					Lead	Other	Links to
no.	Unit	area	Country	Action	Objective	Indicator	partner	partners	other plans
		South		Encourage utility providers (water and electricity) to undertake an assessment of the current and future risks and resilience of their assets to flooding. Develop a flood resilience and adaptation plan as	To better understand the risks to the water and electricity networks and how they can be	Report is produced. Plans /		Central Networks/We stern Power Distribution,	
12.26	SEV6	Gloucestershire	England	appropriate.	managed	actions developed	EA	Severn Trent	

Table 3.14 - Severnside, Bristol & Avon (BRIS)

Action	Policy	Local	_						Links to other
no.	Unit	Authority area	Country	Action	Objective	Indicator	Lead partner	Other partners	plans
		South		Ensure environmental issues are taken into account in the management and maintenance of defences. Ensure any works adhere to agreed working practices e.g. to prevent disturbance to	Environment is not damaged by flood defence	EIA is carried		NE, South Gloucestershire	SAC Regulation 33 advice, SSSI management plans, BAP management
13.1	BRIS1	Gloucestershire	England	birds	management	out	EA	Council, EH	plans
13.2	BRIS1	South Gloucestershire	England	SMP2 is taken into account in Strategic Flood Risk Assessments for Council development / land use plans	To ensure integration of flood risk management plans and development plans	Development plans make reference to SMP2	South Gloucestershire Council	EA	SEFRMS, Local Flood Risk Strategy, Severn Tidal Tributaries CFMP - PU7
13.3	BRIS1	South Gloucestershire	England	Review the economic value of agricultural land at flood/erosion risk	To better understand the economic and food production importance of the agricultural land at risk	Report is produced	Defra	EA, South Gloucestershire Council, IDBs	
13.4	BRIS1	South Gloucestershire	England	Encourage utility providers (water and electricity) to undertake an assessment of the current and future risks and resilience of their assets to flooding. Develop a flood	To better understand the risks to the water and electricity networks and how they can be managed	Report is produced. Plans / actions developed	EA	Western Power Distribution / Central Networks, Wessex Water / Severn trent	

Action no.	Policy Unit	Local Authority area	Country	Action	Objective	Indicator	Lead partner	Other partners	Links to other plans
no.	Onit	Authority area	Country	resilience and adaptation plan as appropriate.	Objective	indicator	Leau parmer	Other partners	pians
13.5	BRIS1	South Gloucestershire	England	Put in place monitoring programme of erosion rates and salt marsh levels/extent	Provide more data for future management decisions, SMP2 updates, for Wales Coastal Monitoring Centre, habitat creation needs, SAC management	Monitoring data is collected	EA	NE	SEFRMS, SAC Regulation 33 advice, SSSI management plans, BAP management plans, Regional Habitat plans
13.6	BRIS2	South Gloucestershire/ City of Bristol	England	Ensure environmental issues are taken into account in the management and maintenance of defences. Ensure any works adhere to agreed working practices e.g. to prevent disturbance to birds	Environment is not damaged by flood defence management	EIA is carried	EA	NE, South Gloucestershire Council, EH	SAC Regulation 33 advice, SSSI management plans, BAP management plans

Action	Policy	Local							Links to other
no.	Unit	Authority area	Country	Action	Objective	Indicator	Lead partner	Other partners	plans
13.7	BRIS2	South Gloucestershire/ City of Bristol	England	SMP2 is taken into account in Strategic Flood Risk Assessments for Council development / land use plans	To ensure integration of flood risk management plans and development plans	Development plans make reference to SMP2	South Gloucestershire Council	EA	SEFRMS, Local Flood Risk Strategy, Severn Tidal Tributaries CFMP - PU7
13.8	BRIS2	South Gloucestershire/ City of Bristol	England	Review the economic value of agricultural land at flood/erosion risk	To better understand the economic and food production importance of the agricultural land at risk	Report is produced	Defra	EA, South Gloucestershire Council, IDBs	
13.9	BRIS2	South Gloucestershire/ City of Bristol	England	Encourage utility providers (water and electricity) to undertake an assessment of the current and future risks and resilience of their assets to flooding. Develop a flood resilience and adaptation plan as appropriate.	To better understand the risks to the water and electricity networks and how they can be managed	Report is produced. Plans / actions developed	EA	Western Power Distribution / Central Networks, Wessex Water / Severn Trent	
13.10	BRIS2	South Gloucestershire/ City of Bristol	England	Put in place monitoring programme of erosion rates and salt marsh levels/extent	Provide more data for future management decisions, SMP2 updates, for Wales Coastal Monitoring Centre, habitat creation needs, SAC management	Monitoring data is collected	EA	NE	SEFRMS, SAC Regulation 33 advice, SSSI management plans, BAP management plans, Regional Habitat plans

Action	Policy	Local	Country	Action	Objective	Indianta:	Lood names	Other newthere	Links to other
no.	Unit	Authority area	Country	Action	Objective To inform and	Indicator	Lead partner	Other partners	plans
					further develop a				
				Carry out a study	flood risk	Study is carried			
				to determine the	management	out / report is			
				combined fluvial /	strategy for	produced.			SEFRMS, Local
				tidal flood risk to	Bristol and	Integrated flood			Flood Risk
		South		Bristol from the tide, the River	reduce uncertainty about	risk			Strategy, Severn Tidal
		Gloucestershire/		Avon and the	the risk of	management strategy is		Bristol City	Tributaries
13.11	BRIS2	City of Bristol	England	Bristol Frome	flooding	completed	EA - SEFRMS	Council	CFMP - PU7
				Identify where	Reduce the risk	- Compression			
				new defences will	of flood				SEFRMS, Local
				need to be, when	consequences to				Flood Risk
				they will need to	businesses /	Asset		NE Drietal City	Strategy, Bristol
				be replaced, how they should be	properties where defences	management plan or similar is		NE, Bristol City Council, Bristol	and Avon CFMP - PU L,
13.12	BRIS3	City of Bristol	England	constructed	currently exist	created	EA - SEFRMS	Docks	PU E
	255	0.1, 0. 2		Ensure	carrering criter	0.00.00		2 00.10	
				environmental					
				issues are taken					
				into account in the design /					
				construction of					
				new defences.					
				Ensure any works					SAC Regulation
				adhere to agreed					33 advice, SSSI
				working practices	Environment is			NE, Bristol City	management
				e.g. to prevent disturbance to	not damaged by flood defence	EIA is carried		Council, Bristol	plans, BAP management
13.13	BRIS3	City of Bristol	England	birds	construction	out	EA	Docks	plans
		, , , , , , , , , , , , , , , , , , , ,	9		Historic				
				Engage with	environment is				
				English Heritage /	not damaged by				
				County	flood defence construction /				
				Archaeologist on replacement of	flood risk				
				defences / flood	management	EIA is carried		NE, Bristol City	
13.14	BRIS3	City of Bristol	England	risk management	actions	out	EA	Council, EH	

Action	Policy Unit	Local Authority area	Country	Action	Objective	Indicator	Lead partner	Other partners	Links to other plans
no.	Onit	Authority area	Country	SMP2 is taken	Objective	indicator	Leau partner	Other partners	piaris
13.15	BRIS3	City of Bristol	England	into account in Strategic Flood Risk Assessments for Council development / land use plans	To ensure integration of flood risk management plans and development plans	Development plans make reference to SMP2	Bristol City Council	EA	SEFRMS, Local Flood Risk Strategy, Bristol and Avon CFMP - PUL, PU E
13.16	BRIS3	City of Bristol	England	Encourage utility providers (water and electricity) to undertake an assessment of the current and future risks and resilience of their assets to flooding. Develop a flood resilience and adaptation plan as appropriate.	To better understand the risks to the water and electricity networks and how they can be managed	Report is produced. Plans / actions developed	EA	Western Power Distribution / Central Networks, Wessex Water / Severn Trent	
13.17	BRIS3	City of Bristol	England	Put in place monitoring programme of erosion rates and salt marsh levels/extent	Provide more data for future management decisions, SMP2 updates, for Wales Coastal Monitoring Centre, habitat creation needs, SAC management	Monitoring data is collected	EA	NE NE	SEFRMS, SAC Regulation 33 advice, SSSI management plans, BAP management plans, Regional Habitat plans
13.18	BRIS3	City of Bristol	England	Carry out a study to determine the combined fluvial / tidal flood risk to Bristol from the tide, the River Avon and the	To inform and further develop a flood risk management strategy for Bristol and reduce	Study is carried out / report is produced. Integrated flood risk management strategy is	EA - SEFRMS	Bristol City Council	SEFRMS, Local Flood Risk Strategy, Bristol and Avon CFMP - PU L, PU E

Action	Policy	Local	Country	Action	Objective	lu dioato u	Lood monteror	Other pertners	Links to other
no.	Unit	Authority area	Country	Action Bristol Frome	Objective uncertainty about the risk of flooding	Indicator completed	Lead partner	Other partners	plans
13.19	BRIS3	City of Bristol	England	Undertake a study of the flood risk associated with the development of the Bristol Deep Water Container Port	To ensure development of Bristol Deep Water Container Port does not affect flood risk. Changes to flood risk are taken account of in other flood risk management plans	Study is carried out / report is produced.	Bristol Docks	EA, Bristol City Council	SEFRMS, Local Flood Risk Strategy, Bristol and Avon CFMP - PU L, PU E
13.20	BRIS4	City of Bristol	England	Ensure environmental issues are taken into account in the management and maintenance of defences. Ensure any works adhere to agreed working practices e.g. to prevent disturbance to birds	Environment is not damaged by flood defence management	EIA is carried out	EA	NE, Bristol City Council, Bristol Docks, EH	SAC Regulation 33 advice, SSSI management plans, BAP management plans
13.21	BRIS4	City of Bristol	England	SMP2 is taken into account in Strategic Flood Risk Assessments for Council development /	To ensure integration of flood risk management plans and development plans	Development plans make reference to SMP2	Bristol City Council	EA	Local Flood Risk Strategy, Bristol and Avon CFMP - PU E

Action no.	Policy Unit	Local Authority area	Country	Action	Objective	Indicator	Lead partner	Other partners	Links to other plans
110.	Oiiit	Authority area	Country	land use plans	Objective	mulcator	Leau partifei	Other partiers	piaris
				Engaring and sublished					
				Encourage utility providers (water					
				and electricity) to					
				undertake an					
				assessment of the current and future					
				risks and	To better				
				resilience of their	understand the			Western Power	
				assets to flooding. Develop a flood	risks to the water and electricity	Report is		Distribution / Central	
				resilience and	networks and	produced.		Networks,	
				adaptation plan	how they can be	Plans / actions		Wessex Water	
13.22	BRIS4	City of Bristol	England	as appropriate.	managed To inform and	developed	EA	/ Severn Trent	
					further develop a				
				Carry out a study	flood risk	Study is carried			
				to determine the	management	out / report is			
				combined fluvial / tidal flood risk to	strategy for Bristol and	produced. Integrated flood			Local Flood
				Bristol from the	reduce	risk			Risk Strategy,
				tide, the River	uncertainty about	management			Bristol and
13.23	BRIS4	City of Bristol	England	Avon and the Bristol Frome	the risk of flooding	strategy is completed	EA - SEFRMS	Bristol City Council	Avon CFMP - PU E
13.23	DNI34	City of Bristor	Eligialiu	Ensure	nooding	completed	EA - SEFRIVIS	Couricii	FUE
				environmental					
				issues are taken					
				into account in the management and					SAC Regulation
				maintenance of					33 advice, SSSI
				defences. Ensure	Environment is			EA, NE, Bristol	management
				any works adhere to agreed working	not damaged by flood defence	EIA is carried		City Council, Bristol Docks,	plans, BAP management
13.24	BRIS5	City of Bristol	England	practices e.g. to	management	out	EA	EH	plans

Action	Policy	Local	Country	Action	Ohioativa	Indicator	Lood northor	Other pertners	Links to other
no.	Unit	Authority area	Country	prevent disturbance to birds	Objective	Indicator	Lead partner	Other partners	plans
13.25	BRIS5	City of Bristol	England	SMP2 is taken into account in Strategic Flood Risk Assessments for Council development / land use plans	To ensure integration of flood risk management plans and development plans	Development plans make reference to SMP2	Bristol City Council	EA	Local Flood Risk Strategy, Bristol and Avon CFMP - PU E
				Encourage utility providers (water and electricity) to undertake an assessment of the current and future risks and resilience of their assets to flooding. Develop a flood resilience and adaptation plan	To better understand the risks to the water and electricity networks and how they can be	Report is produced. Plans / actions		Western Power Distribution / Central Networks, Wessex Water	
13.26	BRIS5	City of Bristol City of Bristol	England	carry out a study to determine the combined fluvial / tidal flood risk to Bristol from the tide, the River Avon and the Bristol Frome	managed To inform and further develop a flood risk management strategy for Bristol and reduce uncertainty about the risk of flooding	Study is carried out / report is produced. Integrated flood risk management strategy is completed	EA - SEFRMS	/ Severn Trent Bristol City Council	Local Flood Risk Strategy, Bristol and Avon CFMP - PU E

Action no.	Policy Unit	Local Authority area	Country	Action	Objective	Indicator	Lead partner	Other partners	Links to other plans
13.28	BRIS6	North Somerset	England	Identify where new defences will need to be, when they will need to be replaced, how they should be constructed	Reduce the risk of flood consequences to businesses / properties where defences currently exist	Asset management plan or similar is created	EA - SEFRMS	EA, NE, North Somerset Council, Bristol Docks	SEFRMS, Local Flood Risk Strategy, Bristol and Avon CFMP - PU L, PU E, North & Mid Somerset CFMP - PU2, actions 2.1, 2.2
13.29	BRIS6	North Somerset	England	Ensure environmental issues are taken into account in the design / construction of new defences. Ensure any works adhere to agreed working practices e.g. to prevent disturbance to birds	Environment is not damaged by flood defence construction	EIA is carried	EA	EA, NE, North Somerset Council, Bristol Docks	SAC Regulation 33 advice, SSSI management plans, BAP management plans
13.30	BRIS6	City of Bristol	England	Engage with English Heritage / County Archaeologist on replacement of defences / flood risk management	Historic environment is not damaged by flood defence construction / flood risk management actions	EIA is carried out	EA	NE, Bristol City Council, EH	
13.31	BRIS6	North Somerset	England	Put in place monitoring programme of erosion rates and salt marsh levels/extent	Provide more data for future management decisions, SMP2 updates, for Wales Coastal Monitoring Centre, habitat creation needs,	Monitoring data is collected	EA	NE, Bristol Docks	SEFRMS, SAC Regulation 33 advice, SSSI management plans, BAP management plans, Regional Habitat plans

no. Unit Authority area Country Action Objective Indicator Lead SAC management	partner Other partners	plans
Thanagement		
Maintain the		
same standard of		
Develop an protection into the		
integrated future, allowing		OFFDMO Lassi
drainage plan for potential		SEFRMS, Local
(surface water increases in /sewer/river rainfall intensity		Flood Risk Strategy, North
flooding) for the and tide-locking		& Mid Somerset
Royal Portbury due to climate Plan is		CFMP - PU2,
		action 2.2
SMP2 is taken	Of IVII	dottori Z.Z
into account in To ensure		
Strategic Flood integration of		SEFRMS, Local
Risk flood risk		Flood Risk
Assessments for management Development		Strategy, North
Council plans and plans make		& Mid Somerset
development / development reference to Bristo	ol City	CFMP - PU2,
13.33 BRIS6 North Somerset England land use plans plans SMP2 Coun	cil EA	action 2.2
Encourage utility		
providers (water		
and electricity) to		
undertake an		
assessment of the		
current and future		
risks and To better		
resilience of their understand the		
assets to flooding. risks to the water Develop a flood and electricity Report is		
resilience and networks and produced.	Western Power	
adaptation plan how they can be Plans / actions	Distribution,	
13.34 BRIS6 North Somerset England as appropriate. managed developed EA	Wessex Water	

Table 3.15 - Portishead & Clevedon (PORT)

Action no.	Policy Unit	Local Authority area	Country	Action	Objective	Indicator	Lead partner	Other partners	Links to other plans
14.1	PORT1	North Somerset	England	SMP2 is taken into account in Strategic Flood Risk Assessments for Council development / land use plans	To ensure integration of flood risk management plans and development plans	Development plans make reference to SMP2	North Somerset Council	EA	SEFRMS, Local Flood Risk Strategy, North & Mid Somerset CFMP - PU1, action 1.1
14.2	PORT1	North Somerset	England	Put in place monitoring programme of erosion rates	Provide more data for future management decisions, SMP2 updates	Monitoring data is collected	EA	North Somerset Council	SEFRMS, Local Flood Risk Strategy, North & Mid Somerset CFMP - PU1, action 1.1
14.3	PORT2	North Somerset	England	SMP2 is taken into account in Strategic Flood Risk Assessments for Council development / land use plans	To ensure integration of flood risk management plans and development plans	Development plans make reference to SMP2	North Somerset Council	EA	SEFRMS, Local Flood Risk Strategy, North & Mid Somerset CFMP - PU1, action 1.1
14.4	PORT2	North Somerset	England	Put in place monitoring programme of erosion rates	Provide more data for future management decisions, SMP2 updates	Monitoring data is collected	EA	North Somerset Council	SEFRMS, Local Flood Risk Strategy, North & Mid Somerset CFMP - PU1, action 1.1
14.5	PORT3	North Somerset	England	SMP2 is taken into account in Strategic Flood Risk Assessments for Council development / land use plans	To ensure integration of flood risk management plans and development plans	Development plans make reference to SMP2	North Somerset Council	EA	SEFRMS, Local Flood Risk Strategy, North & Mid Somerset CFMP - PU1, action 1.1
14.6	PORT3	North Somerset	England	Put in place monitoring programme of erosion rates	Provide more data for future management decisions, SMP2 updates	Monitoring data is collected	EA	North Somerset Council	SEFRMS, Local Flood Risk Strategy, North & Mid Somerset CFMP - PU1, action 1.1

Action no.	Policy Unit	Local Authority area	Country	Action	Objective	Indicator	Lead partner	Other partners	Links to other
14.7	PORT4	North Somerset	England	Ensure environmental issues are taken into account in the management and maintenance of defences. Ensure any works adhere to agreed working practices e.g. to prevent disturbance to birds	Environment is not damaged by flood defence management	EIA is carried out	EA	NE, North Somerset Council, EH	SAC Regulation 33 advice, SSSI management plans, BAP management plans
14.8	PORT4	North Somerset	England	SMP2 is taken into account in Strategic Flood Risk Assessments for Council development / land use plans	To ensure integration of flood risk management plans and development plans	Development plans make reference to SMP2	North Somerset Council	EA	SEFRMS, Local Flood Risk Strategy, North & Mid Somerset CFMP - PU1, action 1.1
14.9	PORT4	North Somerset	England	Put in place monitoring programme of erosion rates	Provide more data for future management decisions, SMP2 updates	Monitoring data is collected	EA	North Somerset Council	SEFRMS, Local Flood Risk Strategy, North & Mid Somerset CFMP - PU1, action 1.1

Table 3.16 - Kingston Seymour to Sand Bay (KIN)

Action	Policy	Local Authority					Lead		Links to other
no.	Unit	area	Country	Action	Objective	Indicator	partner	Other partners	plans
45.4	MINIA	North Commune	Factored	Ensure environmental issues are taken into account in the management and maintenance of defences. Ensure any works adhere to agreed working practices e.g. to prevent disturbance	Environment is not damaged by flood defence	EIA is carried		NE, North Somerset	SAC Regulation 33 advice, SSSI management plans, BAP management
15.1	KIN1	North Somerset	England	to birds	management	out	EA	Council, EH	plans
				SMP2 is taken into account in Strategic Flood Risk Assessments for Council development	To ensure integration of flood risk management plans and	Development plans make reference to	North Somerset		SEFRMS, Local Flood Risk Strategy, North & Mid Somerset CFMP - PU5 action 5.1, PU8
15.2	KIN1	North Somerset	England	/ land use plans	development plans	SMP2	Council	EA	action 8.1
15.3	KIN1	North Somerset	England	Identify where new MR defences will be, when they will be built and how they should be constructed	Reduce the risk of flood impacts to businesses / properties over the long term. Create new habitat. Improve flood plain / flood storage	New set back defences are created	EA - SEFRMS	NE, North Somerset Council, IDB, EH, stakeholders	SEFRMS, Local Flood Risk Strategy, North & Mid Somerset CFMP - PU5 action 5.1, 5.2, 5.3 PU8 action 8.1
				Undertake research involving stakeholders to identify where (and when) MR could take place within the Policy Unit in the medium and longer terms. Study should look at minor, staged	To identify areas of MR that can be practically implemented. To involve stakeholders and landowners in the management	Stakeholders / landowners are aware of the need and reasons for MR. Stakeholders / landowners are involved in the process to identify areas for		NE, North Somerset Council, IDB, EH,	SEFRMS, SAC Regulation 33 advice, SSSI management plans, BAP management plans, Regional
15.4	KIN1	North Somerset	England	and larger, long term	processs	MR. Areas for	EA	stakeholders	Habitat plans

Action	Policy	Local Authority					Lead		Links to other
no.	Unit	area	Country	Action	Objective	Indicator	partner	Other partners	plans
				MR options		MR that can be implemented are identified.			
15.5	KIN1	North Somerset	England	Develop plans to implement the CAPE approach to areas where MR may be undertaken	To help residents / businesses / landowners understand the impacts of climate change and adaptation	Stakeholders / landowners are aware of the need and reasons for MR. Stakeholders / landowners are involved in the process to identify areas for MR. Areas for MR that can be implemented are identified.	EA	NE, North Somerset Council, IDB, EH, stakeholders	
15.6	KIN1	North Somerset	England	Review the economic value of agricultural land at flood/erosion risk	To better understand the economic and food production importance of the agricultural land at risk	Report is produced	Defra	EA, South Gloucestershire Council, IDBs	
15.7	KIN1	North Somerset	England	Ensure environmental issues are taken into account in the design / construction of new defences. Ensure any works adhere to	Environment is not damaged by flood defence construction	EIA is carried out	EA	NE, North Somerset Council, IDB, EH	SAC Regulation 33 advice, SSSI management plans, BAP management plans

Action	Policy	Local Authority					Lead		Links to other
no.	Unit	area	Country	Action	Objective	Indicator	partner	Other partners	plans
				agreed working practices e.g. to prevent disturbance to birds					
15.8	KIN1	North Somerset	England	Engage with English Heritage / County Archaeologist on replacement of defences / flood risk management	Historic environment is not damaged by flood defence construction / flood risk management actions	EIA is carried out	EA	NE, North Somerset Council, EH	
15.9	KIN1	North Somerset	England	Encourage utility providers (water and electricity) to undertake an assessment of the current and future risks and resilience of their assets to flooding. Develop a flood resilience and adaptation plan as appropriate.	To better understand the risks to the water and electricity networks and how they can be managed	Report is produced. Plans / actions developed	EA	Western Power Distribution, Wessex Water	
15.10	KIN2	North Somerset	England	SMP2 is taken into account in Strategic Flood Risk Assessments for Council development / land use plans	To ensure integration of flood risk management plans and development plans	Development plans make reference to SMP2	North Somerset Council	EA	SEFRMS, Local Flood Risk Strategy, North & Mid Somerset CFMP - PU8 action 8.1
15.11	KIN3	North Somerset	England	Ensure environmental issues are taken into account in the management and maintenance of defences. Ensure any works adhere to	Environment is not damaged by flood defence management	EIA is carried out	EA	NE, North Somerset Council, EH	SAC Regulation 33 advice, SSSI management plans, BAP management plans

Action	Policy	Local Authority					Lead		Links to other
no.	Unit	area	Country	Action	Objective	Indicator	partner	Other partners	plans
				agreed working practices e.g. to prevent disturbance to birds					
15.12	KIN3	North Somerset	England	SMP2 is taken into account in Strategic Flood Risk Assessments for Council development / land use plans	To ensure integration of flood risk management plans and development plans	Development plans make reference to SMP2	North Somerset Council	EA	SEFRMS, ND&SSMP2, Local Flood Risk Strategy, North & Mid Somerset CFMP - PU8 action 8.1
15.13	KIN3	North Somerset	England	Review the economic value of agricultural land at flood/erosion risk	To better understand the economic and food production importance of the agricultural land at risk	Report is produced	Defra	EA, South Gloucestershire Council, IDBs	dollori c. 1
15.14	KIN3	North Somerset	England	Put in place monitoring programme of beach levels, dunes and erosion rates	Provide more data for future management decisions, SMP2 updates	Monitoring data is collected	EA	North Somerset	ND&SSMP2, SEFRMS, Local Flood Risk Strategy, North & Mid Somerset CFMP - PU8 action 8.1
15.15	KIN4	North Somerset	England	SMP2 is taken into account in Strategic Flood Risk Assessments for Council development / land use plans	To ensure integration of flood risk management plans and development plans	Development plans make reference to SMP2	North Somerset Council	EA	ND&SSMP2, SEFRMS, Local Flood Risk Strategy, North & Mid Somerset CFMP - PU8 action 8.1

Table 3.17 - The Holms (HOL)

Action no.	Policy Unit	Local Authority area	Country	Action	Objective	Indicator	Lead partner	Other partners	Links to other plans
16.1	HOL1	Cardiff	Wales	SMP2 is taken into account in Strategic Flood Consequence Assessments for Council development / land use plans	To ensure integration of flood risk management plans and development plans	Development plans make reference to SMP2	Cardiff Council	EAW	
16.2	HOL1	Cardiff	Wales	Put in place monitoring programme of erosion rates	Provide more data for future management decisions, SMP2 updates	Monitoring data is collected	Cardiff Council	EAW	Future SMPs
16.3	HOL2	North Somerset	England	SMP2 is taken into account in Strategic Flood Risk Assessments for Council development / land use plans	To ensure integration of flood risk management plans and development plans	Development plans make reference to SMP2	North Somerset Council	EA	
16.4	HOL2	North Somerset	England	Put in place monitoring programme of erosion rates	Provide more data for future management decisions, SMP2 updates	Monitoring data is collected	EA	North Somerset Council	Future SMPs