Specific N	leasure	Measure Type	Link to FRMP Objective	Link to RBMP & Severn FRMP	Time Scale	Progress 2016-2018	Progress 2019-2020
MEASURE	BG01: We will avoid ina	ppropriate develo	opment in floo	od risk areas			
BG01.1	Adopt the Local Development Plan and implement Policy SP7 which directs new development away from high flood risk areas	Prevention M21	S1, S2, S3	Work with others to avoid inappropriate development	2016- 2021	The Local Development Plan has been adopted and Strategic Policy SP7 is used to direct development away from flood risk areas.	Schedule 3 of the Flood and Water Management Act 2010 is now in place and BGCBC are a SuDS Approval Body (SAB). This means that planning consents have now become completely separate from consents relating to Drainage. However, Policy SP7 ensures that no highly vulnerable development is allowed in high flood risk areas
BG01.2	Raise awareness in Planning Committees when developments potentially impact on flood risk areas.	Prevention M21	S1, S2, S3, Ec2	Work with others to avoid inappropriate development	2016- 2021	Development which potentially impact on flood risk areas are identified within planning committee reports	Blaenau Gwent County Borough Council has been set up as a SuDS Approval Body (SAB). This means that planning consents have now become completely separate from consents relating to Drainage. However, Planning Committee is made aware when applications have implications on flood risk areas.

Specific N	Measure	Measure Type	Link to FRMP Objective	Link to RBMP & Severn FRMP	Time Scale	Progress 2016-2018	Progress 2019-2020
BG02.1	Adopt the Local Development Plan and implement Policy SP7 which includes a requirement to incorporate measures in design and construction to reduce the effects of flooding. This will ensure buildings are designed to reduce the effects of flooding	Prevention M23	S2, Ec1, Ec1, Ec2	Promote flood resilience and flood proofing	2016- 2021	The Local Development Plan has been adopted and Strategic Policy SP7 is used to ensure buildings are designed to reduce the effects of flooding	This measure is governed by Schedule 3 of the Flood and Water Management Act 2010. Whereby Blaenau Gwent County Borough Council has been set up as a SuDS Approval Body (SAB). This means that planning consents have now become completely separate from consents relating to Drainage. However, where less vulnerable development is permitted in flood risk areas, where necessary, buildings are designed to reduce the effects of flooding.
BG02.2	Promote appropriately designed developments in relation to site levels, creation of high ground and setting floor levels	Prevention M23	S1, S2, Ec2	Promote flood resilience and flood proofing	2016- 2021	Advice from NRW on appropriate ground levels and floor level is taken into account in the planning application process.	Blaenau Gwent County Borough Council has been set up as a SuDS Approval Body (SAB). This means that planning consents have now become completely separate from consents relating to Drainage. However, advice from NRW on appropriate ground levels and floor level is taken into account in

Specific N	Aeasure	Measure Type	Link to FRMP Objective	Link to RBMP & Severn FRMP	Time Scale	Progress 2016-2018	Progress 2019-2020
BG02.3	Increase approaches	Prevention	S4, Ec2,	Promote flood	2016-	The drainage Officer provides	the planning application process. This measure has been largely
6002.5	in road schemes to utilise materials which provide more resilience to flooding incidents where they are likely to occur.	M23	En2	resilience and flood proofing	2021	advice on appropriate design for Highway schemes, building in green infrastructure solutions as appropriate.	overtaken by Schedule 3 of the Flood and Water Management Act 2010. Whereby Blaenau Gwent County Borough Council has been set up as a SuDS Approval Body (SAB). This means that planning consents have now become completely separate from consents relating to Drainage. This measure is ongoing
BG03.1	Develop reporting system to register details of events at the time of flooding incidents.	Prevention M24	Ec2	Learn from flood events	2016- 2021	funding acquired from Welsh Government allowed us to purchase flood management software which will improve the accuracy of recording flooding incidents Software and training was provided in March 2017 and details of flood events were recorded on the software	The loss of a staff member last year reduced input into the database to a minimum. A new trainee officer has now been appointed and arrangements for further training have been discussed with the software supplier. For which 100% funding has been arranged. It is anticipated that after a short period of training work to update

Specific N	Aeasure	Measure Type	Link to FRMP Objective	Link to RBMP & Severn FRMP	Time Scale	Progress 2016-2018	Progress 2019-2020
							the database will be continued.
BG03.2	Develop and maintain a register of flood assets.	Prevention M24	Ec2	Learn from flood events	2016- 2021	funding acquired from Welsh Government allowed us to purchase flood management software which improved the accuracy of recording our Assets. Software and training was provided in March 2017 and details of flood events were recorded on the software	The loss of a staff member last year has reduced inputting into the database to a minimum. A new trainee officer has now been appointed and arrangements for further training have been discussed with the software supplier. For which 100% funding has been arranged. It is anticipated that after a short period of training work to update the database will be continued.
BG03.3	Develop a maintenance recording system and ensure these are informed by the register of flooding incidents.	Prevention M24	Ec2	Flood Forecasting warning & incident management	2016- 2021	Welsh Government funding enabled the purchase of funding acquired from Welsh Government allowed us to purchase flood management software designed to improve the efficiency of maintenance schedule Software and training was provided in March 2017 and details of flood events were	Since the loss of the officer progress on this aspect has been slow. Inputting of data has ceased due to lack of capacity . A new trainee officer has now been appointed and arrangements for further training has been discussed with the software

Specific M	1easure	Measure Type	Link to FRMP Objective	Link to RBMP & Severn FRMP	Time Scale	Progress 2016-2018	Progress 2019-2020
						recorded on the software	supplier. For which 100% funding has been arranged. It is anticipated that after a short period of training work to update the database will be continued
BG03.4	Carry out a risk assessment of all critical culverts and flood assets, as identified through the register of flooding incidents, maintenance records or flood assets, and prepare an action plan to address any unacceptable risks as a result of the review.	Prevention M24	Ec2	Modelling & Hydrology	2016- 2021	Progress has been made with T98 condition assessments of all critical and significant culvert resulting in repairs and replacements of a number of inlets. Funding has also enabled us to undertake CCTV surveys on a number of culverts, resulting in work to address unacceptable risk	Following a T98 assessment of our critical inlets the previous year a number of inlets have now been improved, and updated on our system. This year we have commissioned work to undertake a number of catchment studies which will inform us if the existing culverts are able to cope with the extra demand of the new developments and the resulting additional impermeable surfaces which increase flow at culvert inlets. We have also undertaken additional CCTV inspections throughout the borough.

Specific M	Measure	Measure Type	E Link to FRMP Objective	Link to RBMP & Severn FRMP	Time Scale	Progress 2016-2018	Progress 2019-2020
BG04.1	Ensuring flood events are recorded in line with the form identified in PRFA	Prevention M24	Ec2	Flood Forecasting warning & incident management	2016- 2021	A system originally put in place for the recording of flood incidents onto spreadsheets . Software and training has since been provided and details of flood events were recorded on the software. This measure is ongoing.	Since the loss of the officer progress on this aspect has been reverted to the spreadsheet until it can be input into the software database. A new trainee officer has now been appointed and arrangements for further training has been discussed with the software supplier. For which 100% funding has been arranged. It is anticipated that after a short period of training work to update the database will be continued
BG04.2	Implementing a geographical database of flood events to inform future mapping of flood risk areas	Prevention M24	Ec2	Flood Forecasting warning & incident management	2016- 2021	Flood risk management software has enabled us to commence input of flooding locations and improve the efficiency and accuracy of mapping flood risk areas.	Since the loss of the officer progress on this aspect has been reverted to the spreadsheet until it can be input into the software database. A new trainee officer has now been appointed and arrangements for further training have been discussed with the software

Specific N	Aeasure	Measure Type	Link to FRMP Objective	Link to RBMP & Severn FRMP	Time Scale	Progress 2016-2018	Progress 2019-2020
BG05.1	Delivery of the Blaenau Gwent Local Biodiversity Action Plan (LBAP), specifically HAP1, Wet woodlands, HAP4, Wetlands and HAP 5 Rivers and Streams.	Protection M31	S1,Ec1,En2	Ensure appropriate floodplain compensation	2016-2021	Working with community groups, schools and external charities including pond restoration and creation. Volunteers participated in the vegetation clearance In 2018 invertebrate monitoring and training has been given to new volunteers. Several areas covering all three rivers in Blaenau Gwent are now monitored on a monthly	supplier. For which 100% funding has been arranged. It is anticipated that after a short period of training work to update the database will be continued This measure is ongoing Ongoing Ongoing
						basis. Trigger levels are set so any concerns with water quality are	

Specific N	Specific Measure Meas		Link to FRMP Objective	Link to RBMP & Severn FRMP	Time Scale	Progress 2016-2018	Progress 2019-2020
						raised immediately. Monthly visits to the rivers also ensure that issues noted while on site are reported.	Ongoing
						An invasive weed treatment programme was continued that identified and treated Japanese Knotweed and Giant Hogweed found on the Rivers Sirhowy, Ebbw Fawr and Ebbw Fach that flow from Blaenau Gwent into Caerphilly.	Ongoing
						Himalayan Balsam was also treated in a number of locations	Ongoing
BG05.2	Consider/Review the designation and management of Local Nature Reserves (LNR) where they assist in flood prevention.	Protection M31	S1,Ec1,En2	Ensure appropriate floodplain compensation	2016- 2021	Biodiversity Action Plans have been updated to accommodate Action in the Flood risk management strategy, incorporating planting schemes and habitat management which help to alleviate flooding. BGCBC are contributing to the	Ongoing

Specific N	leasure	Measure Type	Link to FRMP Objective	Link to RBMP & Severn FRMP	Time Scale	Progress 2016-2018	Progress 2019-2020
						water management on local nature reserves in line with the ecological management plan in collaboration with internal teams and community groups.	
BG05.3	Consider planning requirements for wetland habitat creation as part of the Development Management Process.	Protection M31	En2	Ensure appropriate floodplain compensation	2016- 2021	Opportunities for wetland habitat creation are being considered within the development management process. The options are always discussed with developers when appropriate.	The implementation of Schedule 3 of the Flood and Water Management Act 2010 has ensured that the requirements for wetland habitat creation as part of the Development Management Process are considered separately as a matter of course.
BG05.4	Consider the designation and management of existing wetland areas where they assist in	Protection M31	Ec2, En2	Ensure appropriate floodplain compensation	2016- 2021	A number of pond restorations schemes have been identified to build resilience to climate change and help combat the risk of flooding including; Peacehaven, Tredegar Business	Similar works are ongoing

Specific N	Лeasure	Measure Type	Link to FRMP Objective	Link to RBMP & Severn FRMP	Time Scale	Progress 2016-2018	Progress 2019-2020
	flood prevention.					Park, Beaufort ponds Six Bells and Trevor Rowson. River clearance involving the removal of large quantities of debris was undertaken at sites throughout Blaenau Gwent.	
BG05.5	BGCBC will encourage developers to incorporate wetland and other natural attenuation schemes in new development through guidance, Policies and pre- application discussions with Planning Control case officers.	Protection M31	S2, Ec2, En2	Ensure appropriate floodplain compensation	2016- 2021	2016-17 We have developed draft supplementary planning guidance for biodiversity which considers how to incorporate wetland and other natural attenuation schemes in new developments. 2017-18 The above is still relevant but we have seen a fall in enquiries for major housing and other schemes which is when these requirements would become relevant.	Following the implementation of schedule 3 of the Flood and Water Management Act 2010 the issues are automatically considered as part of the SAB application process.

Specific N	leasure	Measure Type	Link to FRMP Objective	Link to RBMP & Severn FRMP	Time Scale	Progress 2016-2018	Progress 2019-2020
	BG06: We will increase al solutions, managing of Identify contributions to delivery of the Woodlands for Wales Strategy (Welsh Gov) e.g. Shelter belt planting opportunities.		utilise the nat	ural environment	-	A number of woodland planting schemes have been delivered on school sites 1500 trees planted as part of the Sirhowy Valley planting scheme around Peacehaven. Sirhowy Community Woodland Group new woodland Planting – 500 native trees planted. 2 Ha of infected Larch clear- felled at Bryn Bach Park and replaced with 5000 native this will build in resilience to climate	Further tree planting took place during Dec 2019 at Bryn Bach Park to help store water and slow down surface run-off. Approx. 500 trees were planted, which were provided by Ovo Energy after applying for a free promotion they were offering.
						change, and involved the use of volunteers from 4 local schools and the local community. 155meters of hedgerow planting took place	

Specific N	Measure	Measure Type	Link to FRMP Objective	Link to RBMP & Severn FRMP	Time Scale	Progress 2016-2018	Progress 2019-2020
BG06.2	Review the existing management of ordinary water courses in regard to controlling invasive weeds.	Protection M31	Ec2, En2	RBMP: Manage invasive non- native species	2016- 2021	 26 Km of water courses monitored for the presence of Japanese Knotweed with 65 individual sites being treated (Autumn 2016). The sites have been revised and treated where required in September 2017. In 2018-19 an ongoing invasive weed treatment programme was continued which treated Japanese Knotweed, Giant Hogweed, and Himalayan Balsam 	Waiting for response off the team
BG06.3	Review the existing management plans for Local Nature Reserves which assist in storing and filtering water.	Protection M31	Ec2, En2	RBMP: Improve flows and water levels	2016- 2021	Working with our community groups the LNR management plans form the basis of actions on site. Water courses, ponds and lakes are considered to maximise their potential for storing and filtering water	This measure is ongoing in collaboration with the borough ecologist.
BG06.4	When designing streetscape works consideration will be given to incorporating	Protection M31	S4, Ec2, En2	RBMP: Reduce impacts of other physical	2016- 2021	Consideration is given to the inclusion of tree planting and permeable areas in all	Following the implementation of schedule 3 of the Flood and Water Management Act 2010 the incorporation of a greater area of

Specific I	Measure	Measure Type	Link to FRMP Objective	Link to RBMP & Severn FRMP	Time Scale	Progress 2016-2018	Progress 2019-2020
	a greater area of tree planting and permeable areas.			modifications		development applications. during 2017- 18, 131 planning applications responded to and opportunities to include additional tree planting included where possible.	tree planting and permeable areas are automatically considered as part of the SAB application process.
BG06.5	Identify opportunities for planting to stabilise river banks.	Protection M31	Ec2, En2	RBMP: Reduce impacts of other physical modifications	2016- 2021	 We worked with NRW, Groundwork Wales and volunteers at Marine Colliery on bank stabilisation project, using native woodland species (500 native trees planted). Aberbeeg cycle bridge has included bank stabilisation via green engineering and native woodland planting on the embankment. (500 native trees) 	No further projects delivered in 2019 -20

Specific I	Measure	Measure Type	Link to FRMP Objective	Link to RBMP & Severn FRMP	Time Scale	Progress 2016-2018	Progress 2019-2020			
MEASURE BG07: deploying the sustainable drainage systems (SuDS) approach for surface water management for both new and existing developments										
BG07.1	Adopt the Local Development Plan and implement Policy DM1 which requires proposals to reduce surface water run off through minimising an increase in impermeable surfaces and using Sustainable Drainage systems, where appropriate.	Protection M34	Ec1, Ec2	Support implementatio n of SUDs	2016- 2021	The LDP is a key Council Policy in terms of Development Control. Policy DM1 is considered in all development applications (378 applications considered for 2016)	Following the implementation of schedule 3 of the Flood and Water Management Act 2010 the reduction of surface water run of by the introduction of more permeable areas are automatically considered as part of the SAB application process.			
BG07.2	Encourage developers through pre- application discussions to use sustainable drainage systems pending the introduction of the new SuDS regime	Protection M34	En2	Support implementatio n of SUDs	2016- 2021	The use of SUDs is being considered through the development control process. However we are finding developers are not buying in 100% to the principle until it becomes a mandatory requirement.	Following the implementation of schedule 3 of the Flood and Water Management Act 2010 the incorporation SuDS are automatically considered as part of the SAB application process.			

Specific Measure		Measure Type	Link to FRMP Objective	Link to RBMP & Severn FRMP	Time Scale	Progress 2016-2018	Progress 2019-2020
BG07.3	Specify greater use of SuDS systems for new developments as conditions of planning consent.	Protection M34	S1, S2, En2	Support implementatio n of SUDs	2016- 2021	Developers are encouraged to adopt the SuDS management train. However, as it is not yet a statutory requirement we have not attached conditions requiring SUDs but we do attach informative notes to permissions advocating its use	Following the implementation of schedule 3 of the Flood and Water Management Act 2010 the incorporation SuDS are automatically specified as part of the SAB conditions.
MEASUR	EBG08: Identifying and pr	otecting areas sui	table for inun	dation and water	storage to p	revent flooding elsewhere	
BG08.1	Identify areas suitable for inundation and water storage.	Protection M31	Ec1, En2	Identify opportunities for floodplain restoration	2016- 2021	No progress has been made in this area at present due to lack of capacity.	Due to the topography of Blaenau Gwent there are limited inundation areas for consideration

Specific N	Aeasure	Measure Type	Link to FRMP Objective	Link to RBMP & Severn FRMP	Time Scale	Progress 2016-2018	Progress 2019-2020
MEASURI receive	EBG09: Enable those at ris						
BG09.1	flooding	Preparedness M43	S1, S2, S3	Provide service to local resilience forums	2016- 2021	No further work undertaken at present. National guidance on community resilience has recently been issued by the Cabinet Office. This is currently being considered on a Multi- Agency basis as to what community resilience work is currently undertaken, and what additional work can be done with current capacity (not necessarily solely flood related).	No progress reported

Specific Measure		Measure Type	Link to FRMP Objective	Link to RBMP & Severn FRMP	Time Scale	Progress 2016-2018	Progress 2019-2020
BG09.2	Ensuring wider awareness of individual risk to increase levels of preparedness and planning for flooding events	Preparedness M43	S1, S3, Ec1	Raise awareness of flood risk issues	2016- 2021	Information on flood risk is now available on various websites (BGCBC, Gwent Local Resilience Forum, Natural Resources Wales). Updates to BGCBC web site are applied as necessary	Progress has been limited this year due to the lockdown and social distancing regulations related to the Covid 19 Virus Progress is also limited due to the Civil Contingencies Team only having capacity to work on COVID- 19.
MEASURE and busin	BG10: Improve the resp esses						
BG10.1	Ensure lessons from flooding incidents in this and other areas are captured	Preparedness //42	Ec1, Ec2	Learn from flood events	2016- 2021	As a result of the flood report forms we are investigating each event of flooding to identify the source and take measures to prevent future occurrences.	This measure is ongoing A debrief will be undertaken of the flooding February 2020, however progress on this is limited due to the Civil Contingencies Team being involved in COVID-19.

Specific Measure		Measure Type	Link to FRMP Objective	Link to RBMI & Severn FRMP	P Time Scale	Progress 20)16-2018	Progress 2019-2020
BG10.2	Appropriate trained staff to ensure awareness of roles, responsibilities and an effective response for those involved in flood response.	Preparedness M42	Ec1, Ec2	Work closely	y 2016- 2021	Managemen Strategic Eme (Corporate M	r Tactical Emergency t (Head of Service) and ergency Management Aanagement Team) Idertaken on an annual	Relevant training has been undertaken every year, and all staff with a strategic or tactical role have been trained. Training for 2020 is postponed due to COVISD- 19
MEASURE	BG11: Ensure effective r	ecovery arrangem	ents are in pla	ace and suppo	orted by all	relevant parties		
BG11.1	Involvement in multi- agency recovery planning, ensuring plans are tested for suitability	Preparedness M42	Ec1, Ec2	Provide flood incident response service	2016- 2021	on a 3 yearly basis Contingencies are	place. This is updated	The Recovery Plan will be tested through recovery of COVID-10

Specific Measure		Measure Type	Link to FRMP Objective	Link to RBM & Severn FRMP	P Time Scale	Progress 2016-2018	Progress 2019-2020				
MEASURE BG12: Develop better flood forecasting and warning system											
BG12.1	Developing a consistent approach to recording of flood events and flood assets.	Preparedness M41	Ec2	Flood Forecasting warning & incident management	2016-2021	 We currently have a hard copy and electronic system for recording of flood events and of our culvert inlet inspection regime. As of Jan 2017 we secured funding for a new software package, in line with NRW requirements for recording data. 2017 -18 We have installed the software for the recording of floods and we have commenced the inputting of data 	The loss of a staff member last year reduced input into the database to a minimum. A new trainee officer has now been appointed and arrangements for further training have been discussed with the software supplier. For which 100% funding has been arranged. It is anticipated that after a short period of training work to update the database will be continued. Due to long term absence of the drainage engineer It has not been possible to recover any detailed information from within the local authority of properties flooded at Llanhilleth during the storms Ciara, Dennis and Jorge this year.				
BG12.2	Develop a communication strategy for at-risk communities where	Preparedness M43	S1, S2, Ec2	Flood Forecasting warning & incident	2016-2021	No progress has been made in this area at present due to lack of capacity.	No further progress has been made due to lack of capacity.				

Specific N	1 easure	Measure Type	Link to FRMP Objective	Link to RBMP & Severn FRMP	Time Scale	Progress 2016-2018	Progress 2019-2020
	risks that cannot be immediately reduced are communicated to the Emergency Planning Team and affected businesses or residents.			manageme nt		However, There is a resilience group in Cwm set up by NRW.	
MEASURE	BG13: Improve commur	nication and suppo	ort to residen	ts, businesses and	d communitie	es	
BG13.1	Set up a "Flood Risk Community Engagement Group" to help communicate flooding and flood risk to residents, businesses, community etc.	Preparedness M44	S1, S2	Raise awareness of flood risk issues	2016- 2021	No progress has been made in this area at present due to lack of capacity.	No further progress has been made due to lack of capacity