

Gloucestershire County Council

Local Flood Risk Management Strategy

Annual Progress and
Implementation Plan
2019/20 – 2020/21

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1. Introduction

Gloucestershire County Council's Local Flood Risk Management Strategy (LFRMS) was adopted in 2014. It identified the extent of flooding in Gloucestershire, established priorities for managing flooding, and identified how GCC will work together with Risk Management Authorities (RMAs)¹, other stakeholders, and local communities to manage flood risk. In line with statutory obligations, the Strategy focused on flooding from surface runoff, groundwater and ordinary watercourses, whilst considering the linkages with other sources of flooding. However, as part of our leadership role, we identified flood risk which is the operational responsibility of other organisations and will continue to work closely in partnership to support reduction in flood risk across the county irrespective of source.

As part of the Strategy we outlined the need for an 'annual progress and implementation plan' which would set out:

- A summary of progress since the previous annual progress and implementation plan was published
- An up to date prioritisation list based on most vulnerable locations² for the forthcoming year, and
- An up to date list of the actions carried out in each parish.

This document is the annual progress and implementation plan. It reflects on recent success and builds priorities for the future. It sets out the measures we propose to take across Gloucestershire that will have a county-wide benefit, alongside those with a more locally-focussed impact on specific locations according to level of flood risk.

2019-20 has been an exciting and transformative year for both the LLFA and wider flood risk management across the County. Success has been a direct result of close cooperation with all partner organisations, key stakeholders and individual communities. Building on this success, 2020-21 will see deeper and more comprehensive delivery of the LFRMS objectives:

1.1 Summary of this year's progress against strategy objectives

Existing flood alleviation schemes have been progressed and key projects such as the production of Flood Risk Management Plans for Cheltenham and Gloucester in line with the Flood Risk Regulations (2009) have commenced.

Two new members of staff have joined the LLFA this year, which brings the team up to full strength and enabled it to increase efficacy and coverage. For example, creating and maintaining partnerships with a wide range groups and communities, whilst consistently achieving an unprecedented 100% success rate with our target to respond to all planning consultations within 21 days.

Alongside development control, the team has also been feeding into a range of local and national plans and policies. From Neighbourhood Development Plans, through regional schemes such as the missing link to wide-reaching national strategies such as the Environment Agency's ambitious 30-year plan for flood and coastal erosion risk management.

¹ Risk Management Authorities are defined in the Flood and Water Management Act as the LLFA, district/borough councils, the Environment Agency, water and sewerage companies, the highway authorities and Internal Drainage Boards. Their roles are discussed in Section 2 of the Local Strategy.

² This could be based on new information being available due to better modelling and mapping, or a flood incident within a parish or ward.

1.2 Summary of growth plans and direction for 2020/21

Building on the success of 2019/20, the team will capitalise on new partnerships and shared priorities to undertake new areas of activity in 2020/21, whilst maintaining delivery of existing projects.

An exciting programme of new capital schemes will be initiated to support the improvement of flood resilience across the county, benefitting from both GCC funding and external resources.

New networks will be explored and developed including the River Severn Partnership and a catchment based Natural Flood Management forum, which will increase coordination and unlock potential.

To support project and partnership development, a refreshed approach to communications and awareness-raising will be put in place. Information provision will be revised including an overhaul of the website and development of refreshed communications strategy.

Following publication of the EA FCERM strategy in 2020 (date to be confirmed), the LLFA will also commence consultation on an early revision of the LFRMS. As above, the current strategy is not due to expire until 2024, but early review is essential in order to accurately reflect escalating pressures, new priorities and context-shift.

Underpinning all existing and future activity will be the commitment for GCC to allocate at least £2.1m a year to flood prevention across the county. Furthermore, the LLFA team will be playing a central role in delivery of the Gloucestershire Climate Change Strategy, making vital steps towards building a resilient and sustainable county.

2. Actions we propose to take across Gloucestershire

The Main Document of the Strategy identified actions we will take across Gloucestershire to manage and reduce flood risk, and ensure we have appropriate processes and procedures in place. Table 2-1 summarises the agreed actions, the progress to date, and the proposed activities for the forthcoming year to meet these actions. Since the publication of the Main Document, these actions have been altered to take in to account legislative and policy changes by Government, and progress made by the LLFA.

Table 2-1 Progress against proposed action across Gloucestershire

Measures	Responsibility	How will we measure success	Timescale for action	Progress (during 2019-20)	Planned activities for 2020-21
Undertake further studies to improve our understanding of local flood risk, and in response to flooding incidents	GCC in partnership with RMAs	Completion of studies which identify potential mitigation measures to alleviate flooding. Further hydraulic modelling to understand future risks due to climate change	Ongoing with annual progress updates to assess whether objective is being delivered.	<ul style="list-style-type: none"> Research and consultation underway for revised Preliminary Flood Risk Assessment as part of a six-year cycle, leading to Flood Risk Management Plans for key Flood Risk Areas: Cheltenham (GCC lead), Gloucester (EA lead) Preliminary research carried out in three key areas linked to capital programme in order to progress flood alleviation schemes Involvement with River Severn Partnership to combine efforts and seek funding for complete baseline hydraulic model for River Severn and major tributaries. 	<ul style="list-style-type: none"> Carry out revised surface water flood risk modelling in key parishes to update the Risk of flooding from Surface Water mapping Following publication of the EA FCERM 30 year plan in 2020, commence consultation on and development of a revised Local Flood Risk Management Strategy for Gloucestershire.
Undertake S.19 Investigations (of flooding incidents) where criteria are met. The purpose of these investigations is to establish the relevant RMA and whether they have responded appropriately. ³	GCC in partnership with RMAs	Completion and publication of S.19 Investigations	Ongoing	<ul style="list-style-type: none"> Investigations carried out in partnership with RMAs into widespread flooding during late October and early November 2019 	<ul style="list-style-type: none"> Undertake S.19 Investigations when appropriate within 3 months of flooding which meet the criteria. Involve National Flood Forum at major incidents to benefit from public information and support capacity.
Deliver consenting and enforcement role in relation to the Land Drainage Act 1991 and the Flood and Water Management Act 2010. This responsibility has been delegated to the district and borough councils except for Gloucester City which GCC still hold.	GCC in partnership with RMAs	Consent applications will be subject to rigorous scrutiny prior to approval / rejection Enforcement action will be undertaken when necessary and must comply with protocol	Ongoing	<ul style="list-style-type: none"> Service Level Agreements with District councils reviewed and reissued Consistency obtained with consenting fees for Natural Flood Management schemes Optioneering completed in partnership with District Councils to assess validity of SLA terms and payments. 	<ul style="list-style-type: none"> Continue to work with the district councils to monitor consenting and enforcement activities, ensuring active C&E function in <i>all</i> Districts / Boroughs excluding Gloucester City Ensure Service Level Agreements are reviewed to ensure best value and to meet current demands.
Develop consistent approach for designating structures	GCC in partnership with RMAs	Agreed protocol between designating authorities	Ongoing	<ul style="list-style-type: none"> GCC are yet to designate any flood alleviation assets, and no designations carried out by other RMAs in Gloucestershire No new designations elsewhere in England with which to draw comparisons. 	<ul style="list-style-type: none"> Any designation of flood assets will be dependant on legal advice. Continue to assess merits of designation and benchmark any designations in England.
Collate flood data from RMAs onto the Severe Weather Information Management (SWIM) system	GCC in partnership with RMAs	Establishment of process to collate additional data. Collection of additional flood data	Ongoing	<ul style="list-style-type: none"> Use of SWIM actively promoted to communities and RMAs, linked to October / November flooding resulting in increase in use and consistency of data Involvement in SWIM user group including testing of new enhanced version (entitled Flood Online Reporting Tool – FORT) Training in use of SWIM provided to flood wardens. 	<ul style="list-style-type: none"> Increase promotion of SWIM linked to significant flooding events Communications activity linked to relaunch as FORT, including mail-out to Parish Councils.

³ The criteria for a S.19 investigation is 5 or more properties flooded, 2 or more businesses flooded, 1 critical service flooded, whether there are safety concerns or a transport link is impassable for a significant period.

Seek to increase funding from external sources	GCC in partnership with RMAs	Seek to increase in external contributions towards funding applications over the next 5 years	Ongoing	<ul style="list-style-type: none"> Continued liaison with the Environment Agency and Regional Flood and Coastal Committee to ensure Flood Defence Grant in Aid (EA) and Local Levy (RFCC) contributions in principle for new flood alleviation capital projects Detailed negotiation with other organisations to encourage partnership working and funding – both GCC contributions to external projects and external funding for GCC projects. 	<ul style="list-style-type: none"> Funding bid to EA for updated surface water modelling for key catchments Continue to seek to secure external sources of funding for all schemes, projects, investigations and studies
Populate S.21 Asset Register	GCC in partnership with RMAs	S.21 Asset Register populated and available for public inspection	Ongoing	<ul style="list-style-type: none"> The asset register (in spreadsheet format) is available for public inspection upon request Exploration of alternative GIS-based asset register solution, including combining via Highways asset management programme 	<ul style="list-style-type: none"> Continue to work with RMAs to add further records to the asset register where appropriate Complete transfer to geo-spatial database Ensure any map-based asset register remains publicly accessible.
Undertake ditch mapping and clearance with parish councils	GCC in partnership with district and parish councils	<p>Targeted parishes and wards have more comprehensive mapping of location and condition of drainage ditches, including pinch points.</p> <p>More drainage ditches across the county being cleared by riparian owners</p>	Ongoing	<ul style="list-style-type: none"> Ditch clearance project in Tewkesbury carried out in partnership with riparian owners, EA and Tewkesbury Borough Council 	<ul style="list-style-type: none"> Continue to raise awareness of the importance of watercourse maintenance with parish councils Include ditch mapping exercise in flood warden training and parish council mail-out Revise and update riparian ownership guidance to ensure watercourse management is focussed and in line with current best practice, including Natural Flood Management approaches.
Statutory consultee to all Local Planning Authorities for major developments	GCC	Provide statutory consultee comments on surface water management and surface water flood risk for all major planning applications in Gloucestershire to the relevant Local Planning Authority (LPA)	Ongoing	<ul style="list-style-type: none"> Performance measure of 95% of all planning consultations responded to within 21 day exceeded at every quarter – consistently 100% Consultee to major development projects including Ashchurch Garden Village, A471 missing link and Sharpness Eco-Village Responses made to numerous strategic planning consultations: e.g Neighbourhood Development Plans and national consultations including EA 30 year FCERM strategy. 	<ul style="list-style-type: none"> Continue with statutory consultee role Continue to provide pre-application advice within resources available Complete revision of Gloucestershire SuDS Design and Maintenance Guide Achieve minimum 95% sub 21 day responses Continue to feed into strategic planning, locally, regionally and nationally to ensure flood risk management is built into every stage.
Raise awareness of flood risk management	GCC in partnership with district councils and the Environment Agency	Increase in amount of media activity related to flood risk management	Ongoing	<ul style="list-style-type: none"> Media activity coordinated during and after October / November 2019 flooding, including social media activity via GCC comms team Assessment completed of digital media provision Initial revision of 'essential flood guide' in advance of full refresh in 2020/21 	<ul style="list-style-type: none"> Complete and implement communications plan with GCC and external partners to achieve consistency of message Review and overhaul digital media provision, including website and advice guides, to ensure accurate, pertinent and user-friendly information.
Meet regularly with Risk Management Authorities and ensure good lines of communication between organisations	GCC in partnership with RMAs	By the frequency and attendance of the meetings	Ongoing	<ul style="list-style-type: none"> RMA network meeting frequency increased to quarterly due to demand and importance to each RMAs' efficacy 'Flood Risk Management Delivery Group' set up and coordinated by GCC to act as a technical officers' working group and a counterpoint to the more strategic / policy and process driven RMA network. Group met two weeks before each RMA meeting in order to feed into the wider group on area specific and technical issues. 	<ul style="list-style-type: none"> Continue to facilitate quarterly RMA network meetings Continue to facilitate quarterly FRM Delivery Group meetings Seek out, develop and facilitate new local and regional partnerships including a regional Natural Flood Management Forum

				<ul style="list-style-type: none"> • GCC attendance on all regional LLFA network meetings aligned to Wessex and English Severn & Wye RFCCS 	
Work with Civil Protection Team (CPT) to raise awareness of flooding and ensure joined up approach	GCC	Evidence of local communities becoming more prepared for flooding (e.g. preparation of community flood plans). CPT have access to latest mapping to inform planning	Ongoing	<ul style="list-style-type: none"> • Active partnership with CPT developed and maintained in 2019, including FRM involvement on emergency response teleconferences and CPT representation on RMA Network Meetings 	<ul style="list-style-type: none"> • Continue to cultivate relationship of mutual support with CPT to ensure optimal collaboration
Apply a robust scoring matrix for prioritising a rolling programme of works	GCC	Schemes are developed and funded based on most at risk and cost effectiveness	Ongoing	<ul style="list-style-type: none"> • Only minor updates have been made to the scoring matrix. No major updates have been required. • For details of how the list was developed see the Annual Progress and Implementation Plan 2016-17: https://www.gloucestershire.gov.uk/media/6846/gloucestershire_suds_design_and_maintenance_guide_-_dec_2015-compressed-63334.pdf. 	<ul style="list-style-type: none"> • Continue to use and adjust the scoring matrix as appropriate.
Keep parish prioritisation up to date	GCC	Ranked parishes based on flood risk that reflects known flood issues and most recent flood maps	Ongoing	<ul style="list-style-type: none"> • The parish prioritisation is updated for each Annual Progress and Implementation Plan to reflect new reports of flooding as well as the progress of flood alleviation schemes. 	<ul style="list-style-type: none"> • Continue to update the prioritisation list as required • Include remodelled parishes depending on funding secured.

3. Location-specific actions

3.1. Parish prioritisation

Parish prioritisation is a method used to help understand and investigate flood risk in Gloucestershire. It uses the flood reports from SWIM (formerly the Flood Data Register), modelled flood risk and previous flood alleviation work to rank parishes based on their relative risk⁴. It is regularly updated to include new information and the latest table is shown in Table 3.1.

Once a flood alleviation scheme has been completed in a parish, the risk is revised and shown as “-“. This helps keep track of which areas have had flood alleviation work and which still require investigating. It doesn't mean the risk in the parish has been resolved.

⁴ Details of the scoring system can be found in the Annual Progress and Implementation Plan 2016-17:
https://www.gloucestershire.gov.uk/media/6846/gloucestershire_suds_design_and_maintenance_guide_-_dec_2015-compressed-63334.pdf

Table 3.1 **Prioritised Parishes and Wards**

Parish or Ward	District	Number of reports of internal flooding	Number of reports of properties affected by flooding	Number of properties at high risk of surface water flooding (1 in 30 year)	Initial Calculated Risk	Revised calculated risk	Actions
Abbeydale Ward	Gloucester	Less than 5	Less than 5	Less than 5	Medium-Low	Medium-High	Scheme in progress
Adlestrop CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Alderley CP	Stroud	Less than 5	Less than 5	25 - 50	Low	Low	-
Alderton CP	Tewkesbury	Less than 5	Less than 5	25 - 50	Low	Low	-
Aldsworth CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Alkington CP	Stroud	5 - 25	5 - 25	25 - 50	Medium-Low	Medium-Low	-
All Saints Ward	Cheltenham	Less than 5	Less than 5	Less than 5	Medium-Low	Medium-Low	-
Alvington CP	Forest	Less than 5	Less than 5	5 - 25	Low	Low	-
Ampney Crucis CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Ampney St. Mary CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Ampney St. Peter CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Andoversford CP	Cotswold	Less than 5	5 - 25	25 - 50	Medium-Low	Medium-Low	Study complete
Arlingham CP	Stroud	Less than 5	Less than 5	25 - 50	Medium-Low	Medium-High	-
Ashchurch Rural CP	Tewkesbury	Less than 5	Less than 5	50 - 75	Medium-Low	Medium-Low	Study complete
Ashleworth CP	Tewkesbury	Less than 5	Less than 5	5 - 25	Low	Medium-Low	-
Ashley CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Aston Subedge CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Avening CP	Cotswold	Less than 5	Less than 5	25 - 50	Low	Medium-Low	-
Awre CP	Forest	Less than 5	5 - 25	50 - 75	Medium-High	High	Study complete
Aylburton CP	Forest	Less than 5	Less than 5	5 - 25	Low	Low	-
Badgeworth CP	Tewkesbury	Less than 5	Less than 5	75 - 100	Medium-Low	Medium-High	SWMP complete
Bagendon CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Barnsley CP	Cotswold	Less than 5	5 - 25	Less than 5	Low	Low	-
Barnwood Ward	Gloucester	Less than 5	5 - 25	5 - 25	Medium-High	High	Scheme in progress
Barrington CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Barton and Tredworth Ward	Gloucester	Less than 5	Less than 5	75 - 100	High	High	SWMP complete
Batsford CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Battledown Ward	Cheltenham	Less than 5	25 - 50	Less than 5	Medium-Low	Medium-Low	-
Baunton CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Benhall and the Reddings Ward	Cheltenham	Less than 5	Less than 5	Less than 5	Low	Low	-
Berkeley CP	Stroud	Less than 5	Less than 5	5 - 25	Low	Medium-Low	-
Beverston CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Bibury CP	Cotswold	Less than 5	5 - 25	5 - 25	Low	Low	-
Bishop's Cleeve CP	Tewkesbury	Less than 5	Less than 5	Greater than 100	Medium-High	Medium-High	Scheme in progress
Bisley-with-Lypiatt CP	Stroud	5 - 25	5 - 25	25 - 50	Medium-Low	Medium-Low	-
Blaisdon CP	Forest	Less than 5	Less than 5	5 - 25	Low	Low	-
Bledington CP	Cotswold	5 - 25	5 - 25	50 - 75	Medium-Low	-	Scheme complete
Blockley CP	Cotswold	Less than 5	Less than 5	75 - 100	Medium-High	-	Scheme complete
Boddington CP	Tewkesbury	Less than 5	Less than 5	5 - 25	Low	Medium-Low	-
Bourton-on-the-Hill CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Bourton-on-the-Water CP	Cotswold	Less than 5	75 - 100	75 - 100	High	-	Scheme complete
Boxwell with Leighterton CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Brimpsfield CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Brimscombe and Thrupp CP	Stroud	Less than 5	Less than 5	Greater than 100	Medium-High	Medium-High	-
Broadwell CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Brockworth CP	Tewkesbury	Less than 5	Less than 5	75 - 100	Medium-Low	Medium-High	Scheme in progress
Bromesberrow CP	Forest	Less than 5	Less than 5	5 - 25	Low	Low	-
Brookthorpe-with-Whaddon CP	Stroud	Less than 5	Less than 5	25 - 50	Low	Low	SWMP complete
Buckland CP	Tewkesbury	Less than 5	Less than 5	25 - 50	Low	Medium-Low	-
Cainscross CP	Stroud	5 - 25	25 - 50	Greater than 100	High	High	Scheme in progress
Cam CP	Stroud	5 - 25	5 - 25	75 - 100	Medium-High	High	Study complete

Chaceley CP	Tewkesbury	Less than 5	5 - 25	5 - 25	Low	-	Scheme complete
Chalford CP	Stroud	5 - 25	5 - 25	Greater than 100	Medium-High	High	-
Charlton Kings Ward	Cheltenham	Less than 5	Less than 5	25 - 50	Medium-High	-	Scheme complete
Charlton Park Ward	Cheltenham	Less than 5	Less than 5	5 - 25	Medium-High	High	-
Chedworth CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Cherington CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Chipping Campden CP	Cotswold	Less than 5	Greater than 100	Greater than 100	High	-	Scheme complete
Churcham CP	Forest	Less than 5	Less than 5	25 - 50	Low	Low	-
Churchdown CP	Tewkesbury	Less than 5	Less than 5	Greater than 100	Medium-High	High	Scheme in progress
Cinderford CP	Forest	Less than 5	5 - 25	Greater than 100	Medium-High	-	Scheme complete
Cirencester CP	Cotswold	5 - 25	75 - 100	Greater than 100	High	High	Scheme in progress
Clapton CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Coaley CP	Stroud	Less than 5	Less than 5	25 - 50	Low	Medium-Low	-
Coates CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Coberley CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Cold Aston CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Coleford CP	Forest	Less than 5	Less than 5	Greater than 100	High	-	Scheme complete
Colesbourne CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
College Ward	Cheltenham	Less than 5	Greater than 100	25 - 50	High	-	Scheme complete
Coln St. Aldwyns CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Coln St. Dennis CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Compton Abdale CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Condicote CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Corse CP	Forest	Less than 5	Less than 5	25 - 50	Low	Low	-
Cowley CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Cranham CP	Stroud	Less than 5	Less than 5	Less than 5	Low	Low	-
Cutsdean CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Daglingworth CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Deerhurst CP	Tewkesbury	Less than 5	Less than 5	5 - 25	Low	-	Scheme complete
Didmarton CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Donnington CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Dowdeswell CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Down Ampney CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Down Hatherley CP	Tewkesbury	Less than 5	Less than 5	5 - 25	Low	Low	SWMP complete
Driffield CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Drybrook CP	Forest	Less than 5	Less than 5	75 - 100	Medium-Low	Medium-High	-
Dumbleton CP	Tewkesbury	Less than 5	Less than 5	25 - 50	Low	Low	-
Duntisbourne Abbots CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Duntisbourne Rouse CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Dursley CP	Stroud	5 - 25	5 - 25	Greater than 100	Medium-High	High	-
Dymock CP	Forest	Less than 5	Less than 5	25 - 50	Low	Medium-Low	-
Eastington CP	Stroud	5 - 25	5 - 25	25 - 50	Medium-Low	Medium-High	-
Eastleach CP	Cotswold	Less than 5	5 - 25	5 - 25	Low	Low	-
Ebrington CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Edgeworth CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Elkstone CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Elmbridge Ward	Gloucester	Less than 5	Greater than 100	5 - 25	Medium-High	-	Scheme complete
Elmore CP	Stroud	Less than 5	Less than 5	Less than 5	Low	Medium-Low	-
Elmstone Hardwicke CP	Tewkesbury	Less than 5	Less than 5	5 - 25	Low	Low	-
English Bicknor CP	Forest	Less than 5	Less than 5	Less than 5	Low	Low	-
Evenlode CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Fairford CP	Cotswold	Less than 5	75 - 100	25 - 50	High	-	Scheme complete
Farmington CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Forthampton CP	Tewkesbury	Less than 5	Less than 5	5 - 25	Low	Low	-
Frampton on Severn CP	Stroud	5 - 25	5 - 25	5 - 25	Medium-High	-	Scheme complete
Fretherne with Saul CP	Stroud	Less than 5	Less than 5	5 - 25	Medium-High	Medium-High	-
Frocester CP	Stroud	5 - 25	25 - 50	5 - 25	Low	Medium-Low	-

Gorsley and Kilcot CP	Forest	Less than 5	Less than 5	Less than 5	Low	Low	-
Gotherington CP	Tewkesbury	Less than 5	Less than 5	5 - 25	Low	Low	-
Grange Ward	Gloucester	Less than 5	Greater than 100	5 - 25	Medium-High	High	SWMP complete
Great Rissington CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Great Witcombe CP	Tewkesbury	Less than 5	Less than 5	5 - 25	Low	Low	SWMP complete
Gretton CP	Tewkesbury	Less than 5	Less than 5	5 - 25	Low	Low	-
Guiting Power CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Ham and Stone CP	Stroud	Less than 5	Less than 5	25 - 50	Medium-Low	Medium-Low	-
Hamfallow CP	Stroud	5 - 25	5 - 25	25 - 50	Medium-Low	Medium-Low	-
Hampnett CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Hardwicke CP	Stroud	Less than 5	5 - 25	25 - 50	Medium-Low	Medium-High	SWMP complete
Harescombe CP	Stroud	Less than 5	Less than 5	5 - 25	Low	Low	-
Haresfield CP	Stroud	5 - 25	5 - 25	25 - 50	Low	Low	-
Hartpur CP	Forest	Less than 5	Less than 5	25 - 50	Low	Low	-
Hasfield CP	Tewkesbury	Less than 5	Less than 5	5 - 25	Low	Low	-
Hatherop CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Hawling CP	Tewkesbury	Less than 5	Less than 5	5 - 25	Low	Low	-
Hazleton CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Hesters Way Ward	Cheltenham	Less than 5	Less than 5	Less than 5	Low	Medium-Low	-
Hewelsfield and Brockweir CP	Forest	Less than 5	Less than 5	5 - 25	Low	-	Scheme complete
Highnam CP	Tewkesbury	Less than 5	Less than 5	5 - 25	Low	Medium-Low	-
Hillesley and Tresham CP	Stroud	Less than 5	Less than 5	25 - 50	Low	Low	-
Hinton CP	Stroud	Less than 5	Less than 5	25 - 50	Low	Medium-Low	-
Horsley CP	Stroud	Less than 5	Less than 5	5 - 25	Low	Low	-
Hucclecote CP	Tewkesbury	Less than 5	Less than 5	Less than 5	Low	Low	-
Hucclecote Ward	Gloucester	Less than 5	25 - 50	5 - 25	Medium-High	Medium-High	Scheme in progress
Huntley CP	Forest	Less than 5	Less than 5	5 - 25	Low	Low	-
Icomb CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Innsworth CP	Tewkesbury	Less than 5	Less than 5	5 - 25	Low	Medium-Low	SWMP complete
Kemble CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Kempley CP	Forest	Less than 5	Less than 5	5 - 25	Low	Low	-
Kempsford CP	Cotswold	Less than 5	25 - 50	25 - 50	Medium-Low	-	Scheme complete
King's Stanley CP	Stroud	5 - 25	5 - 25	5 - 25	Medium-Low	Medium-Low	-
Kingscote CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Kingsholm and Wotton Ward	Gloucester	5 - 25	Greater than 100	5 - 25	High	-	Scheme complete
Kingswood CP	Stroud	Less than 5	5 - 25	50 - 75	Medium-Low	Medium-High	-
Lansdown Ward	Cheltenham	Less than 5	Less than 5	5 - 25	Medium-High	High	SWMP complete
Lechlade CP	Cotswold	Less than 5	Greater than 100	5 - 25	High	-	Scheme complete
Leckhampton Ward	Cheltenham	Less than 5	5 - 25	Less than 5	Medium-Low	Medium-High	-
Leigh CP	Tewkesbury	Less than 5	Less than 5	5 - 25	Low	-	Scheme complete
Leonard Stanley CP	Stroud	5 - 25	5 - 25	5 - 25	Medium-Low	Medium-Low	-
Little Rissington CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Littledean CP	Forest	Less than 5	Less than 5	5 - 25	Low	Low	-
Long Newnton CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Longborough CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Longford CP	Tewkesbury	5 - 25	5 - 25	Less than 5	Medium-High	Medium-High	SWMP complete
Longhope CP	Forest	Less than 5	5 - 25	50 - 75	Medium-Low	Medium-Low	-
Longlevens Ward	Gloucester	Less than 5	Greater than 100	Less than 5	High	High	SWMP complete
Longney and Epney CP	Stroud	Less than 5	Less than 5	Less than 5	Medium-Low	Medium-Low	-
Lower Slaughter CP	Cotswold	Less than 5	5 - 25	5 - 25	Low	-	Scheme complete
Lydbrook CP	Forest	5 - 25	5 - 25	75 - 100	Medium-High	-	Scheme complete
Lydney CP	Forest	Less than 5	5 - 25	Greater than 100	High	-	Scheme complete
Maisemore CP	Tewkesbury	Less than 5	Less than 5	5 - 25	Low	Medium-Low	-
Maiseyhampton CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Matson and Robinswood Ward	Gloucester	Less than 5	Greater than 100	5 - 25	Medium-High	High	-
Maugersbury CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Mickleton CP	Cotswold	Less than 5	Less than 5	50 - 75	Medium-Low	Medium-Low	-

Minchinhampton CP	Stroud	5 - 25	5 - 25	Greater than 100	Medium-High	High	-
Minsterworth CP	Tewkesbury	Less than 5	Less than 5	5 - 25	Medium-Low	Medium-Low	-
Miserden CP	Stroud	Less than 5	Less than 5	5 - 25	Low	Low	-
Mitcheldean CP	Forest	Less than 5	Less than 5	75 - 100	Low	Medium-Low	Study complete
Moreland Ward	Gloucester	5 - 25	Greater than 100	5 - 25	High	High	Study complete
Moreton Valence CP	Stroud	Less than 5	Greater than 100	5 - 25	Medium-Low	Medium-Low	-
Moreton-in-Marsh CP	Cotswold	Less than 5	Less than 5	Greater than 100	High	-	Scheme complete
Nailsworth CP	Stroud	5 - 25	5 - 25	Greater than 100	High	-	Scheme complete
Naunton CP	Cotswold	Less than 5	5 - 25	25 - 50	Low	Low	-
Newent CP	Forest	Less than 5	Less than 5	75 - 100	Medium-High	-	Scheme complete
Newland CP	Forest	Less than 5	Less than 5	25 - 50	Medium-Low	Medium-High	Study complete
Newnham CP	Forest	Less than 5	Less than 5	5 - 25	Low	Low	-
North Cerney CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
North Nibley CP	Stroud	Less than 5	Less than 5	5 - 25	Low	Medium-Low	-
Northleach with Eastington CP	Cotswold	Less than 5	5 - 25	25 - 50	Medium-Low	Medium-High	-
Northway CP	Tewkesbury	Less than 5	Less than 5	25 - 50	Medium-Low	Medium-Low	SWMP complete
Norton CP	Tewkesbury	Less than 5	Less than 5	5 - 25	Low	Low	SWMP complete
Notgrove CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Nymphsfield CP	Stroud	Less than 5	Less than 5	5 - 25	Low	Low	-
Oakley Ward	Cheltenham	Less than 5	Greater than 100	Less than 5	Medium-High	-	Scheme complete
Oddington CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Owlpen CP	Stroud	Less than 5	Less than 5	Less than 5	Low	Low	-
Oxenhall CP	Forest	Less than 5	Less than 5	Less than 5	Low	Low	-
Oxenton CP	Tewkesbury	Less than 5	Less than 5	25 - 50	Low	Low	-
Ozleworth CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Painswick CP	Stroud	5 - 25	5 - 25	25 - 50	Medium-Low	-	Scheme complete
Park Ward	Cheltenham	Less than 5	Less than 5	5 - 25	Medium-Low	Medium-High	-
Pauntley CP	Forest	Less than 5	Less than 5	Less than 5	Low	Low	-
Pitchcombe CP	Stroud	Less than 5	Less than 5	Less than 5	Low	Low	-
Pittville Ward	Cheltenham	Less than 5	Less than 5	25 - 50	Medium-Low	Medium-High	Study complete
Podsmead Ward	Gloucester	Less than 5	75 - 100	5 - 25	Medium-Low	Medium-High	Scheme in progress
Poole Keynes CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Poultton CP	Cotswold	Less than 5	5 - 25	5 - 25	Low	Low	-
Prescott CP	Tewkesbury	Less than 5	Less than 5	5 - 25	Low	Low	-
Prestbury Ward	Cheltenham	Less than 5	5 - 25	Less than 5	Medium-Low	Medium-Low	-
Preston CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Quedgeley Fieldcourt Ward	Gloucester	5 - 25	5 - 25	Less than 5	Medium-Low	Medium-High	SWMP complete
Quedgeley Severn Vale Ward	Gloucester	Less than 5	Less than 5	Less than 5	Medium-Low	-	Scheme complete
Quenington CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Randwick CP	Stroud	5 - 25	5 - 25	5 - 25	Low	Low	-
Redmarley D'abitot CP	Forest	Less than 5	5 - 25	25 - 50	Low	Medium-Low	-
Rendcomb CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Rodborough CP	Stroud	Less than 5	Less than 5	25 - 50	Medium-High	Medium-High	-
Rodmarton CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Ruardean CP	Forest	Less than 5	Less than 5	Less than 5	Low	Low	-
Rudford and Highleadon CP	Forest	Less than 5	Less than 5	25 - 50	Low	Low	-
Ruspidge and Soudley CP	Forest	Less than 5	Less than 5	50 - 75	Medium-Low	Medium-High	-
Saintbury CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Sandhurst CP	Tewkesbury	Less than 5	Less than 5	25 - 50	Medium-Low	Medium-High	SWMP complete
Sapperton CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Sevenhampton CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Sezincote CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Sherborne CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Shipton CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Shipton Moyne CP	Cotswold	Less than 5	Less than 5	25 - 50	Low	Low	-
Shurdington CP	Tewkesbury	Less than 5	Less than 5	5 - 25	Low	Medium-Low	SWMP complete
Siddington CP	Cotswold	Less than 5	Less than 5	5 - 25	Medium-Low	Medium-High	-

Slimbridge CP	Stroud	Less than 5	5 - 25	5 - 25	Medium-Low	-	Scheme complete
Snowhill CP	Tewkesbury	Less than 5	Less than 5	Less than 5	Low	Low	-
Somerford Keynes CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Medium-Low	-
South Cerney CP	Cotswold	5 - 25	5 - 25	5 - 25	High	-	Scheme complete
Southam CP	Tewkesbury	Less than 5	Less than 5	25 - 50	Low	Medium-Low	SWMP complete
Southrop CP	Cotswold	Less than 5	5 - 25	5 - 25	Low	Low	-
Springbank Ward	Cheltenham	Less than 5	Greater than 100	Less than 5	High	High	-
St. Briavels CP	Forest	Less than 5	Less than 5	5 - 25	Low	Low	-
St. Mark's Ward	Cheltenham	Less than 5	Less than 5	Less than 5	Low	Medium-Low	-
St. Paul's Ward	Cheltenham	Less than 5	Less than 5	Less than 5	Low	Low	-
St. Peter's Ward	Cheltenham	Less than 5	Less than 5	Less than 5	Medium-Low	Medium-High	-
Standish CP	Stroud	5 - 25	5 - 25	25 - 50	Low	Medium-Low	-
Stanton CP	Tewkesbury	Less than 5	Less than 5	5 - 25	Low	Low	-
Stanway CP	Tewkesbury	Less than 5	Less than 5	25 - 50	Low	Medium-Low	Study complete
Staunton Coleford CP	Forest	Less than 5	Less than 5	5 - 25	Low	Low	-
Staunton CP	Forest	Less than 5	Less than 5	25 - 50	Low	Low	-
Staverton CP	Tewkesbury	Less than 5	Less than 5	25 - 50	Low	Low	-
Stinchcombe CP	Stroud	Less than 5	Less than 5	5 - 25	Low	Low	-
Stoke Orchard CP	Tewkesbury	Less than 5	Less than 5	25 - 50	Low	Low	SWMP complete
Stonehouse CP	Stroud	5 - 25	50 - 75	50 - 75	Medium-High	High	-
Stow-on-the-Wold CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Stroud CP	Stroud	5 - 25	25 - 50	Greater than 100	High	High	Study complete
Sudeley CP	Tewkesbury	Less than 5	Less than 5	5 - 25	Low	Low	-
Swell CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Swindon Village Ward	Cheltenham	Less than 5	Less than 5	Less than 5	Medium-Low	-	Scheme complete
Syde CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Taynton CP	Forest	Less than 5	Less than 5	25 - 50	Low	Low	-
Teddington CP	Tewkesbury	Less than 5	Less than 5	5 - 25	Low	Low	-
Temple Guiting CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Tetbury CP	Cotswold	Less than 5	Less than 5	50 - 75	Medium-Low	Medium-High	Study complete
Tetbury Upton CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Tewkesbury CP	Tewkesbury	5 - 25	5 - 25	25 - 50	Medium-High	-	Scheme complete
Tibberton CP	Forest	Less than 5	Less than 5	25 - 50	Low	Low	-
Tidenham CP	Forest	Less than 5	Less than 5	50 - 75	Medium-Low	Medium-Low	Study complete
Tirley CP	Tewkesbury	5 - 25	5 - 25	25 - 50	Medium-Low	-	Scheme complete
Toddington CP	Tewkesbury	Less than 5	Less than 5	25 - 50	Low	Low	-
Todenham CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Tuffley Ward	Gloucester	Less than 5	25 - 50	5 - 25	Medium-Low	-	Scheme complete
Turkdean CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Twigworth CP	Tewkesbury	Less than 5	Less than 5	5 - 25	Low	Medium-Low	SWMP complete
Twynning CP	Tewkesbury	Less than 5	Less than 5	5 - 25	Low	Medium-Low	-
Uckington CP	Tewkesbury	Less than 5	Less than 5	5 - 25	Low	Medium-Low	-
Uley CP	Stroud	5 - 25	5 - 25	5 - 25	Low	Medium-Low	-
Up Hatherley Ward	Cheltenham	Less than 5	Less than 5	Less than 5	Low	Low	-
Upleadon CP	Forest	Less than 5	Less than 5	25 - 50	Low	Low	-
Upper Rissington CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Upper Slaughter CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Upton St. Leonards CP	Stroud	Less than 5	Less than 5	50 - 75	Medium-Low	Medium-Low	-
Warden Hill Ward	Cheltenham	Less than 5	Greater than 100	Less than 5	Medium-Low	Medium-High	-
West Dean CP	Forest	Less than 5	Less than 5	Greater than 100	Medium-Low	Medium-High	Study complete
Westbury-on-Severn CP	Forest	Less than 5	Less than 5	Greater than 100	High	High	Scheme in progress
Westcote CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Westgate Ward	Gloucester	Less than 5	75 - 100	5 - 25	High	-	Scheme complete
Weston Subedge CP	Cotswold	Less than 5	5 - 25	50 - 75	Medium-Low	-	Scheme complete
Weston Subedge CP (DET)	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Westonbirt with Lasborough CP	Cotswold	Less than 5	Less than 5	25 - 50	Low	Low	-
Wheatpieces CP	Tewkesbury	Less than 5	Less than 5	5 - 25	Low	Medium-Low	SWMP complete

Whiteshill and Ruscombe CP	Stroud	Less than 5	Less than 5	Less than 5	Low	Low	-
Whitminster CP	Stroud	Less than 5	5 - 25	5 - 25	Low	Medium-Low	-
Whittington CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Wick Rissington CP	Cotswold	Less than 5	Less than 5	5 - 25	Low	Low	-
Willersey CP	Cotswold	Less than 5	25 - 50	25 - 50	Low	Low	Study complete
Winchcombe CP	Tewkesbury	Less than 5	Less than 5	Greater than 100	Medium-High	-	Scheme complete
Windrush CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Winson CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	-	Scheme complete
Winstone CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Withington CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-
Woodchester CP	Stroud	Less than 5	5 - 25	5 - 25	Low	Medium-Low	-
Woodmancote CP	Tewkesbury	Less than 5	Less than 5	50 - 75	Medium-Low	Medium-Low	SWMP complete
Woolaston CP	Forest	Less than 5	Less than 5	5 - 25	Low	Low	-
Wotton-under-Edge CP	Stroud	Less than 5	5 - 25	Greater than 100	Medium-High	High	Study complete
Yanworth CP	Cotswold	Less than 5	Less than 5	Less than 5	Low	Low	-

3.2 Current capital schemes

Capital funded flood alleviation schemes programmed in line with parish and scheme prioritisation schedule

Table 3.2 Current flood alleviation schemes with Gloucestershire County Council contributions

Project Lead	Parish	Location	Scheme/Works description
Gloucestershire County Council	Bishop's Cleeve CP	Bishop's Cleeve, various locations	Surface Water Management Plan Scheme - a number of measures across the town centre
	Brockworth CP	Medway Crescent, Brockworth	Surface Water Management Plan Scheme - Property Level Resilience
	Churchdown CP	Anne Hathaway Drive, Churchdown	Surface Water Management Plan Scheme - Property Level Resilience
	Cirencester CP	Cirencester	Upstream catchment natural attenuation measures and urban retro-fit SuDS
	Podsmead Ward	Sports Complex SuDS, Podsmead	Incorporate SuDS into the drainage plan for the proposed sports complex development in order to hold enough flood water to alleviate risk downstream.
Gloucester City Council	Abbeydale Ward	Abbeydale downstream of Community Centre, River Twyver	Renaturalise channel. Removing concrete channel and replacing with a two stage channel with wetland plants.
	Hucclecote Ward	Appleton Way, Hucclecote	Optimising the flood storage at Appleton Way Lagoon as well as improving the conveyance of flood water over highway culverts on Green Lane, Brookfield Road and Millbridge Road.
	Barnwood Ward	Barnwood Park, Barnwood	Balancing Pond improvement works
	Hucclecote Ward	Porchester Road, Hucclecote	Additional funding for Individual Property Protection for 9 properties.
Environment Agency	Various – Tewkesbury District	Properties between Tewkesbury and Gloucester	Property flood resilience measure to individual properties

3.3 Future capital schemes

Capital schemes are programmed according to Prioritised Flood Alleviation Schemes list (PFAS). It is an ongoing task for the GCC Flood Risk Team to investigate the viability of the schemes on the list and either recommend them for future funding or remove them from the list. New schemes will be added to the list when requests for funding are made to GCC or when new schemes are identified. This means the list will continue to be altered and updated

For details of how the list was developed see the Annual Progress and Implementation Plan 2016-17: https://www.gloucestershire.gov.uk/media/6846/gloucestershire_suds_design_and_maintenance_guide_-_dec_2015-compressed-63334.pdf

The following table is the current list of schemes from the PFAS with confirmed funding following approval of Outline Business Cases

Table 3.3 Future capital schemes

District	Parish / ward	Location	Proposed method of alleviation	Estimated number of properties at risk	Estimated Scheme Cost
Forest of Dean	Coleford CP	Coleford Town Centre	Install channel drains and a new drainage network in the centre of Coleford	179	£471,000
Cheltenham	Pittville Ward	Windsor Street and Little Cleevemount	Reduce road levels and create flood storage area in school playing field	38	£502,000
Stroud	Nailsworth CP	George Street	Install a high capacity gully and new carrier drain to the Nailsworth Stream	19	£215,000
Stroud	Various	Various	Stroud Rural SuDS	TBC	GCC contr. = £30k pa x3
Gloucester City	Matson and Robinswood / Tuffley Ward	Holmleigh Park / Matson Park	Retro-fit SuDS in various locations – ERDF project match funding	TBC	GCC contr. = £45k – 23% match
Cotswold	Somerford Keynes CP	Central	Installation of new flood relief culvert	TBC	£30,000
Cotswold	Broadwell CP	Central	Installation of new filter drain, flood relief drain and infiltration basin	TBC	£40,000
Forest of Dean	Lydney CP	Cookson Terrace	Property Flood resilience measures to rear gateways and boundary walls	TBC	£30,000

4. Appendix

Table 4.1 **Table of definitions**

	Definition
CPT	Civil Protection Team
EA	Environment Agency
FAS	Flood Advisory Service – a not for profit organisation who promote flood awareness.
FDR	Flood Data Register – an application used by the LLFA to record property flooding.
FRA	Flood Risk Area - an area which has 5 or more “blue squares” (a 1km square with either 200 or more people [number of residential properties x2.34 people], 20 or more non-residential properties or 1 or more key services [e.g. emergency services, hospitals, schools, utilities] at risk of flooding) are found within a 3x3 km grid.
GCC	Gloucestershire County Council
LLFA	Lead Local Flood Authority – Gloucestershire County Council was made the LLFA for Gloucestershire following the Flood and Water Management Act 2010.
PFRA	Preliminary Flood Risk Assessment - a countywide assessment of flood risk identifying high risk areas. This is to be reviewed every 6 years.
RMA	Risk Management Authority - are defined in the Flood and Water Management Act as the LLFA, district/borough councils, the Environment Agency, water and sewerage companies, the highway authorities and Internal Drainage Boards. Their roles are discussed in Section 2 of the Local Strategy.
RoFfSW	Risk of Flooding from Surface Water – formally the updated Flood Maps for Surface Water (uFMfSW), it is a national computer model demonstrating the risk of flooding from surface water across the country.
SEA	Strategic Environmental Assessment - a process for considering the potential environmental impacts of addressing flood risk.
SuDS	Sustainable Drainage System – a form of surface water drainage which tries to mimic the natural environment.
SWIM	Severe Weather Information Management – an online flood reporting system which allows members of the public to report flooding directly to the website: https://swim.geowessex.com/glos .
SWMP	Surface Water Management Plan – a report completed in 2011 for several areas around Gloucestershire which investigates the surface water flooding in 2007 and with recommended alleviation measures.