

Appendix B1 - Mitigation Options Long List v1.0

Type	Measure	Opportunity assessment	Description	Comments
Source	Blue / green roof		Generic measure, could be integrated into new developments or retrofitted into older buildings	Need large surface area to store high volumes of water
	Soakaway		Specific measure, could be implemented in geologically suitable areas	
	Swales		Specific measure, could be introduced in open areas within key areas of interest as a means to channel water to storage features or temporarily hold surface water	
	Permeable paving		Generic measure, could be introduced across most car parks and in new developments	
	Rainwater harvesting		Generic measure, could be introduced across all open spaces and new developments	
	Detention basin / Dry pond		Specific measure, could be introduced across most open areas within key areas of interest	
	Pond		Specific measure, could be introduced across most open areas within key areas of interest	
	Wetland		Specific measure, could be introduced across most open areas within key areas of interest	
	Rain garden		Specific measure, most suitable to open spaces or on footways with min 3m width	
Pathway	Increase capacity in drainage system / Watercourse		Existing drainage or watercourse channel storage capacity could be increased to accommodate additional surface water and prevent peak flooding	Further review of existing drainage system and feasibility of changing it required
	Separation of foul and surface water sewers		Sewer system almost completely separated	
	Diversion of drainage system / Watercourse		Watercourse channels could be diverted through areas that could intermittently flood as an exceedance measure	
	Improved maintenance regimes		Ensuring the drainage network is properly maintained removes the incidence of blockages and consequent flooding	
	Managing overland flow - online storage		Storage areas could be created for temporary storage in open spaces with slow release back into the surface water sewer network at a restricted rate	
	Managing overland flow - preferential flow paths		Diverting flows to open areas such as parks or roadside swales with possible kerb raising	
	Land management practices		Management of runoff rates and volumes from upstream catchments	Hotspots are heavily urbanised
	Deculverting watercourse(s)		Returning watercourses to a more natural state would prevent flooding upstream of culverts	
Receptor	Improved weather warning		Could provide great warning time of flooding to residents	Flood warning is not as effective for surface water flooding issues as for other types of flooding
	Planning policies to influence development		Generic measure which could be applied to all catchments to reduce flooding from new developments	
	Temporary or demountable flood defences		Specific measure which could be installed in areas of significant risk of flooding with adequate warning	
	Social change, education and awareness		Generic measures, focusing on community engagement and the need for property level protection	Focus on community engagement and the need for property level protection
	Improved resilience and resistance measures		Commercial and residential property level measures	Educating the local community of the need and how to protect themselves on property level basis