

## Appendix C: Actions to be taken by the Council to combat flood risk

ID	Action		Action Type	Term	Status
	What?	How?			
1	Review and ensure current emergency response to borough-wide surface water flooding is appropriate.	Review the Multi-Agency Flood Plan in the context of the SWMP outputs, involving key transport providers such as Transport For London and Network Rail, as appropriate.	Investigation / Feasibility / Design	Short	Hillingdon's Civil Protection draft Flood Plan is being reviewed in light of the information within this SWMP.
2	Determine whether vulnerable institutions and services and access (e.g. power, telecommunications) are resilient to surface water flooding.	Provide outputs of Drain London to institutions managers and critical services providers, to assess the overall resilience of service across the Borough	Communication / Partnerships	Short	The Council's Civil Protection meet regularly with the Resilience Forum to discuss these issues.
3	Ensure a register of assets which affect flooding is maintained by the Council.	Establish and maintain a combined register of structures within different departments, including ownership and management details which are believed to have a significant effect on a local flood risk.	Flood and Water Management Act	Short	Requires discussion by Council's Highways Maintenance/ Green Spaces / Corporate Property as to best way all can share information. Highways investing in new GIS information system.
4	Review opportunities for managing flooding on Council owned public open space and highways land	To consider inclusion of flood risk management measures (such as ponds/wetlands, permeable paving, infiltration areas) on Council land as areas are reviewed.	Flooding Mitigation Action	Medium	Clear vision for this within Blue Ribbon Policy in the Local Plan Part 1. Projects to be identified. For example Eastcote House Gardens project, where joint working has developed a programme of work to maintain assets. Ongoing action to ensure this continues.
5	Ensure drainage systems are free flowing by maintaining gullies. Focus on significant risk areas.	Review existing gully clearance/ maintenance schedules and if necessary revise/prioritise Local Flood Risk Zones. Focus maintenance of gully pots in the identified Critical Drainage Areas (CDAs), or areas identified as being at risk from blocked gullies, from historic reports. Review gullies missed during routine work and focus enforcement in these significant areas.	Flooding Mitigation Action	Short	The Council has a clear Gully cleaning programme. Known problem sites are prioritised. Highways investing in a new system to record and analyse this information. This information to be recorded and fed back into SWMP updates.
6	Look for opportunities to reduce flood risk to significant sites whilst upgrading the existing drainage network.	Review the drainage network plans against the SWMP outputs and evidence of flooding. As part of highways improvement programme include additional construction task of installing additional gullies or alternative drainage systems where feasible. Consultation with Thames Water may be required.	Investigation / Feasibility / Design	Medium	The Council has a clear Gully cleaning programme.
7	Gully Cleaning - Improving 'Visibility'	Clearly identify gullies prone to flooding (possibly painted yellow)	Flooding Mitigation Action	Medium	The Council has a clear Gully cleaning programme
8	Gully Cleaning - Timing of Cleansing Rounds	Coordinate timing of gully cleansing rounds to ensure that they do not coincide with other peak times that would prevent ability to gain access to gullies.	Flooding Mitigation Action	Medium	The Council have a clear Gully cleaning programme. Residents given notice of need to remove cars. Busy times, eg at school locations, avoided where possible.
9	Ensure a proper record is kept of all flood incidents within the Borough	All reports of flooding are to be reported to the Flood and Water Management Officer (FWMO)	Flooding Mitigation Action	Short	Council and residents to report incidents to FWMO.
10	Investigate high priority significant flood risk areas, to understand issues and develop and prioritise mitigation options.	Detailed assessment of causes and consequences of flooding needed to understand the mechanisms and test mitigation measures, through modelling of surface and sub-surface drainage systems in CDAs and other significant sites across the Borough.	Flood and Water Management Act	Long	Desktop investigations started and sites visits made. Work ongoing.

11	Allocate resources, investigate opportunities for funding to help investigate and develop flood management options.	Make applications to Drain London as resources allow. Manage subsequent projects.	Financial / Resourcing	Long	Application process initiated. See Action plan for specific sites prioritisation.
12	Review of other local flood risk - groundwater and ordinary watercourses issues.	Review records of flooding reported by residents. Desktop study of geological conditions in these areas. Checking of GIS Layers to ensure information collected on assets along ordinary watercourse.	Investigation / Feasibility / Design	Long	Continue to add to the Strategic Flood Risk Assessment, list of groundwater flooding records /ordinary watercourse flooding records as information becomes available.
13	Ensure SuDs design is appropriate for the mainly clay geological conditions in Hillingdon.	Ensure that developers/ builders are aware of the increased requirements where infiltration is minimal and that sufficient space is allowed to control water and prevent flooding.	Communication / Partnerships	Medium	SuDs suitability maps available in the SWMP on the Council's website. Information for validation of applications being drafted. SuDs guidance is being produced by London Drainage Engineers Group (LODEG) for London.
14	Review of Local Planning Policy: Ensure developers demonstrate compliance with the Nation Planning Policy Framework ( NPPF), that development will remain safe and will not increase risk to others against <b>all sources</b> of flood risk. Using the best available information including the SWMP mapped outputs for surface water and groundwater.	Develop more detailed drainage information for 'Validation' to assist those making planning applications and those assessing them to demonstrate that the risks from all sources of flooding have been considered. Guidelines for developers to be made available on website. SWMP to be available on internal GIS.	Policy Action	Long	A continuing action as new applications are received. The Hillingdon SWMP Evidence Base was approved on 24th Jan 2013, and is available on the Council's website . Information is currently being drafted for validation of applications List of data sources for developers is to go on website.
15	Review of Local Planning Policy to ensure SWMP evidence informs future policies in Local Plan	Include specific policies on the following: a) Development in a CDA and/or significant area to contribute to investigations/ measures to reduce surface water flood risk in that area; b) Development across the Borough to reduce run off from site by at least 50% in compliance with the London Plan, ideally greenfield; c) Seek to include SuDS retrofitting policies to enhance or replace conventional drainage systems as opportunities arise; d) Increase permeable surfaces/ reduce hard standing; e) Include water efficiency and rainwater harvesting and re-use on new/redevelopments.	Policy Action	Long	Local Plan Part 2 is currently being drafted - and these policies are being considered. Once adopted, this is a continuing action as new applications are received.
16	Review Flood Data available.	The evidence for decision making will be collected as it becomes available, including: Evidence/ Reports of occurrence of a surface water /groundwater, ordinary watercourse flood event; additional data or modelling , which may alter the understanding of risk within the study area; The SWMP Action Plan and associated mapping will be reviewed and updated internally on a regular basis.	Communication / Partnerships	Long	Regular review and update of relevant SWMP Maps. Re-issue to departments within Council and other stakeholders.
17	Review and Update Action Plan	Depending on scale of additional data available, review and update Action plan. This may be triggered by: Outcome of investment decisions by partners differing from preferred option and additional (major) development or other changes in the catchment which may affect the surface water flood risk.	Flooding Mitigation Action	Long	Review Action Plan. Reissue to departments within the Council and other stakeholders.