

ID	Action	Key Focus	Alignment to existing FRMP measure(s) (2020)	Priority Ranking	Timeframe	Action Type	Responsibility	
							Lead RMA	Primary Stakeholder Support
1	Co-operation between Authorities in exercising functions under the Flood and Water Management Act and all relevant legislation	Attendance to key strategic meetings to share best practices and manage common challenges Engage with RMA's through cross borough boundary projects to work collaboratively to achieve local flood risk objectives	Continue to hold quarterly flood group meetings in Richmond Work together with the Environment Agency to understand the fluvial and tidal interactions and the operation of the Thames Barrier in Richmond Work together with Thames Water to understand the interaction between the sewer system and fluvial/tidal flooding in Richmond	High	Short	Flood and Water Management Act	LB Richmond LLFA	Environment Agency, Thames Water, neighbouring Local Authorities, and Transport for London
2	Investigate repeat or significant flooding incidents which have occurred in Hotspots and Flood Incident Areas to determine potential cause(s) and recommendations for future actions	Determine process and timescale for conducting Section 19 investigations Undertake projects to deliver solutions to flooding problem where viable	Identify key 'at risk' communities, develop resources in Richmond	High	Short	Investigation / Feasibility / Design	LB Richmond LLFA	Environment Agency, Thames Water, neighbouring Local Authorities
3*	Carry out an economic appraisal for each proposed mitigation option for the shortlisted high risk Hotspots, and revise the ranking given to reflect its economic viability	The economic appraisal should include a cost benefit analysis of the scheme over its lifetime A programme should be produced outlining how and when viable schemes will be taken forward	Publish and begin implementing a programme of flood alleviation schemes which mitigate local flood risks, utilising a catchment-based approach in Richmond Investigate increasing the surface water pipe diameter in St. Margaret's Road to reduce flooding in Richmond	High	Short	Investigation / Feasibility / Design	LB Richmond LLFA	
4*	Undertake detailed flood risk modelling if required to better assess the benefits of the options with the highest priority ranking.		Publish and begin implementing a programme of flood alleviation schemes which mitigate local flood risks, utilising a catchment-based approach in Richmond Investigate increasing the surface water pipe diameter in St. Margaret's Road to reduce flooding in Richmond	Medium	Medium	Investigation / Feasibility / Design	LB Richmond LLFA	Environment Agency, Thames Water, neighbouring Local Authorities, and Transport for London
5*	Consider taking forward the most promising options for further appraisal and cost refinement, and preparing and submitting a business case to obtain funding to deliver a viable option.		Publish and begin implementing a programme of flood alleviation schemes which mitigate local flood risks, utilising a catchment-based approach in Richmond Investigate increasing the surface water pipe diameter in St. Margaret's Road to reduce flooding in Richmond	Medium	Medium	Investigation / Feasibility / Design	LB Richmond LLFA	Environment Agency
6	Identify potential funding contributors and securing funding for scheme options to enable delivery.		Publish and begin implementing a programme of flood alleviation schemes which mitigate local flood risks, utilising a catchment-based approach in Richmond	Medium	Medium	Financial / Resourcing	LB Richmond LLFA	LB Richmond Highways, LB Richmond Parks and Open Spaces, LB Richmond Transport and Strategy, LB Richmond Climate Change, Environment Agency, Thames Water, neighbouring Local Authorities, and Transport for London

7	Design and build financially viable schemes which provide multiple benefits		<p>Publish and begin implementing a programme of flood alleviation schemes which mitigate local flood risks, utilising a catchment-based approach in Richmond</p> <p>Investigate increasing the surface water pipe diameter in St. Margaret's Road to reduce flooding in Richmond</p> <p>Look into the potential to landscape Marble Hill Park in Richmond</p>	Medium	Long	Flooding Mitigation	LB Richmond LLFA	LB Richmond Highways, LB Richmond Parks and Open Spaces, LB Richmond Transport and Strategy, Environment Agency, Thames Water, and neighbouring Local Authorities
8	Record incidents in a timely and consistent manner at the exact location of flooding		This action does not directly link to the FRMP measures, however, it is relevant to other LB Richmond priorities	High	Short	Flood and Water Management Act	LB Richmond LLFA	Thames Water
9	Conduct maintenance of the drainage system such as ensuring gullies and drains are regularly maintained to allow the drainage network to operate at capacity in Hotspots	Maintenance works should be carried out in order of risk ranking for Hotspots and Flood Incident Areas	This action does not directly link to the FRMP measures, however, it is relevant to other LB Richmond priorities	High	Short	Flood and Water Management Act	LB Richmond LLFA	LB Richmond Highways, Thames Water, Transport for London, and Highways England
10+	Investigate the capacity of the surface water sewer system within hotspot and flood incident areas and investigate options for increasing sewer capacity	Investigations should be carried out in order of risk ranking for Hotspots and Flood Incident Areas	Investigate increasing the surface water pipe diameter in St. Margaret's Road to reduce flooding in Richmond	High	Short	Investigation / Feasibility / Design	Thames Water	LB Richmond LLFA
11	Ensure all new developments, particularly in Hotspots and Flood Incident Areas, contribute to measures to reduce surface water flood risk in the Catchment through the incorporation of rainwater harvesting and green blue infrastructure	Engage with Richmond's Planning Team to incorporate extra requirements for planning applications within Hotspots and Flood Incident Areas	Work with Local Planning Authority colleagues to implement strengthened policy and guidance in Richmond	High	Short	Policy	LB Richmond Planning	LB Richmond LLFA

12	Seek opportunities within all relevant local or regional strategic plans to integrate surface water flood risk reduction measures	Engage with Richmond's Planning Team to incorporate flood risk reduction measures within local or regional strategic plans	Work with Local Planning Authority colleagues to implement strengthened policy and guidance in Richmond	High	Medium	Policy	LB Richmond Planning	Environment Agency, Thames Water, neighbouring Local Authorities, Greater London Authority, Transport for London, LB Richmond Highways, LB Richmond Parks and Open Spaces, LB Richmond Planning
13	Introduce SuDS retrofitting policies and incentives which seek to enhance or replace conventional drainage systems in favour of green roofs, rainwater harvesting and reuse, or other above ground green blue attenuation features on new developments	Engage with Richmond's Planning Team to incorporate extra requirements for planning applications	Work with Local Planning Authority colleagues to implement strengthened policy and guidance in Richmond	High	Short	Policy	LB Richmond Planning	LB Richmond LLFA
14	Communicate and better educate local residents and businesses about local flood risks to support the uptake of property-level mitigation measures including SuDS		Use a catchment-based approach to work closely with communities and landowners in Richmond Identify key 'at risk' communities, develop resources in Richmond	Medium	Long	Communication / Partnerships	LB Richmond LLFA	LB Richmond Communications
15†	Investigate resilience of key transport infrastructure across the borough including the strategic highway network, railway lines and public transport assets	Develop and keep up to date a list of all critical infrastructure and work with relevant departments and RMA's to ensure the resilience of this infrastructure against flood risk now and in the future	This action does not directly link to the FRMP measures, however it is relevant to other council priorities	High	Short	Investigation / Feasibility / Design	LB Richmond LLFA	LB Richmond Transport and Strategy, Transport for London, Network Rail, and Highways England
16	Provide training for other Council officers to increase the potential for partnership working through improved education about SuDS and to improve public informing exercises		This action does not directly link to the FRMP measures, however it is relevant to other council priorities	Low	Medium	Communication / Partnerships	LB Richmond LLFA	LB Richmond Planning, and other relevant Council teams
17	Seek to reduce carbon emissions associated with flood risk schemes with the aim of making them carbon neutral	Engage with LB Richmond's Climate Change Group to aim to make flood risk schemes carbon neutral, in line with LB Richmond's ambition to become carbon neutral by 2030	This action does not directly link to the FRMP measures, however it is relevant to other council priorities	Medium	Long	Investigation / Feasibility / Design	LB Richmond LLFA	LB Richmond Climate Change
18	Identify opportunities to incorporate Natural Flood Management in the borough	Suitable locations should be identified and then if these align with Hotspots and Flood Incident Areas, investigations should be carried out in order of risk ranking	This action does not directly link to the FRMP measures, however it is relevant to other council priorities	Low	Long	Investigation / Feasibility / Design	LB Richmond LLFA	

RAG progress tracker for actions

Red: Actions not currently in progress

Amber: Actions that LB Richmond are planning to carry out, and should be actioned if possible

Green: Actions already implemented. LB Richmond will continue to implement these / strengthen their approach

Key

*Completion of action is dependent on successful application for funding

†TWUL should be collaborated with and informed of any capacity issues identified by LB Richmond LLFA

‡LB Richmond investigates resilience of its own assets