Actions Objectives | National | Partnership | Local | Programme | N1 | N2 | N3 | N4 | N5 | P1 | P2 | P3 | P4 | P5 | P6 | P7 | L1 | L2 | L3 | L4 | L5 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020-2025 | 2025+ FRMP Action Partners
Other RMAs | Other Non RMAs Priority Name Plan Action Owner Ward Action description Build on understanding of historic groundwater flood events to Groundwater establish formal understanding of areas at risk of groundwater Risk Map flooding within the London Borough of Bromley. Work with EA to produce local groundwater flood risk map linked to conditions that result in flood risk to particular areas and review following future Bromlev Partnership aroundwater flood events. Incorporate into Borough's Strategic LFRMS (FRM) EΑ BGS ess than £100k Flood Risk Assessment. ery High Borough wide review of existing groundwater monitoring sites Groundwater (boreholes) in relation to areas at risk within London Borough of Bromley. Review with EA potential requirements for additional sites. Partnership Review telemetry arrangements at existing and proposed sites. LFRMS (FRM) less than £100k EΑ BGS ALL BR-Review groundwater provision in local and multi-agency flood plans High Groundwate for Borough. Review the potential to use local groundwater flood risk map to identify groundwater flood warning areas. Work wtih EA warning to seek to establish triggers for 'alert', 'warning' and 'server warning' categories or similar for groundwater flood warning areas. Raise awareness of residents and business within groundwater flood Bromley warning areas over local flood risk and what they might be able to do Partnership Emergency LFRMS (FRM) Planning to prepare themselves / their property. ess than £100k FΑ BR-Culvert erv Hial Desktop exercise to review residual risk of culvert blockage TWUL Blockage throughout non-main river across the Borough. Look at options to Highways include surface water systems / catchments in study area. Use to Risk LFRMS (FRM) ess than £100k Authority 4 Assessment prioritise asset condition surveys. lanning, Public BR-Borough Borough wide - seek opportunities for incorporating storage or other Realm, Parks, wide storage FRM measures alongside other activity (e.g. public realm works, Highways Residents and FRM highways works and to parks and open spaces) subject to funding. LFRMS (FRM) Authority associations £500K to £1M AII Ongoing BR-Borough Borough wide - Promote interception of roof runoff into back gardens and/or front permeable paving and replace footways with permeable Planning. wide runoff LFRMS (FRM) Transport £500K to £1M ALL Ongoing 6 management BR-Runoff /loderate neutral parks Borough wide - make parks and greenspaces runoff neutral as Parks and open and open opportunities arise LFRMS (FRM) space Ongoing 7 spaces BR-Lake Borough wide - review with Environment Agency all council owned Parks and open and operated lakes and impounded water bodies for water quality siltation LFRMS (FRM) ALL and siltation issues. Consider interventions Ongoing BR-Green St Review regular flooding in Green Street Green area (Shire Lane) /loderate TWUL. Green area: and interactions with downstream in conjunction with other Bromlev Highways measures in Chelsfield and Pratts Bottom Ward. Review action of LFRMS (FRM) Authority less than £100k 9 flooding Darwin A21 on flow paths and TWUL existing infrastructure. BR-Darwin Moderate Ward; Keep Keep change of use under review - particularly with recent change in change of permitted development rights for change of use. (Planning) use under Bromley LFRMS (FRM) 10 review Darwin Ongoing less than £100k Planning BR-Jail Lane; Moderate Highway Drainage issues around Jail Lane near Charles Darwin review Bromley School and Blackness Lane. Monitor drainage issues in this area. Highways drainage LFRMS (FRM) less than £100k Authority 11 issues Darwin BR-Coney Groundwater and surface water issues along border of West Moderate Hall: GW Wickham Ward and Haves and Coney Hall ward (Sparrows Den. issues, risk Bromley Hayes and Coney Hall, Courtfield Rise, Bencurtis Park etc.). Working in partnership with the 12 map Environment Agency to improve Main River culvert function LFRMS (FRM) West Wickham less than £100k EA Planning BR-Coney Hayes and Coney Hall and West Wickham Integrated combined Moderate Hall; GW source study with Environment Agency on Ravensboune South Hayes and Coney Hall, issues, risk (West Wickham to Shortlands) looking into future alleviation option LFRMS (FRM) West Wickham less than £100k EA Planning 13 map (including around Pickhurst Lane). BR-St John Moderate Rigby/All Keep development of St John Rigby / All Saints site under review. Saints (Planning) Planning, Bromley development LFRMS (FRM) Education 14 review Hayes and Coney Hall Ongoing less than £100k Knoll/Hussey Review opportunities for The Knoll and Husseywell Recreation well Rec Grounds. The Green and Pitsmead Avenue open spaces. Pickhurst Grounds: Green, Boughton Avenue, Farleigh Avenue and Mead Way and Planning, Open FRM Bourne Vale. 15 measures LFRMS (FRM) Hayes and Coney Hall £100K to £500k Authority Spaces Review potential opportunities for attenuation in Whitehall and Planning, Open Whitehall/Pa Parkfield Recreation Grounds for FRM measures. 16 kfield Rec LFRMS (FRM) £100K to £500k Spaces Bromley Common and Keston BR-Bromley Review opportunities around Bromley Common open spaces (e.g. Low Common: Bromley Golf Course) particularly ordinary watercourse and surface MyTime / 17 OW and SW LFRMS (FRM) less than £100k Riparian Owners Bromley Common and Keston Moderate Monitor potential development in Chelsfield and opportunities for Chelsfield: FRM measures. Review Green Street Green Bus Garage and Bromley FRM links to 18 Development LFRMS (FRM) Orpington Hospital plans and opportunities. (Planning) Planning Chelsfield and Pratts Bottom less than £100k Ongoing

Possible Funding Source

Actions Objectives | National | Partnership | Local | Programme | N1 | N2 | N3 | N4 | N5 | P1 | P2 | P3 | P4 | P5 | P6 | P7 | L1 | L2 | L3 | L4 | L5 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020-2025 | 2025+ FRMP Action Partners
Other RMAs | Other Non RMAs Plan Action Owner Ward Action description Name Priority RR-Moderate Borkwood Monitor ponding and flow routes and groundwater / flood mechanisms around Sevenoaks Road / Kings Road and along Pk: review ponding, flow railway embankment / Borkwood Park. Review against reported Parks, Network routes and flood incidents and drainage details. LFRMS (FRM) less than £100k Chelsfield and Pratts Bottom 19 GW Ongoing BR-Well Hill: Moderate Highways keep GW Bromley Continue to monitor groundwater flow from Well Hill to Maypole. 20 under review LFRMS (FRM) less than £100k Authority Chelsfield and Pratts Bottom Ongoing **Moderate** Sevenoaks Review potential for FRM measures around Sevenoaks Way, Way, Chelsfied Green, along Warren Road, Green Street, Windsor Drive, Chelsfield Homestead Road and Spring Gardens open spaces and verges. Bromley Highways Green; SW 21 management LFRMS (FRM) Chelsfield and Pratts Bottom £100K to £500k Authority Open Spaces BR-Biggin /loderate Review with Surrey CC opportunities for attenuation upstream of Hill: review Biggin Hill (Tatsfiled area / Rickets Hill Road) unstream LFRMS (FRM) £100K to £500k Surrey CC Riparian Owners 22 attenuation Biggin Hill BR-Biggin /loderate Hill: SW Review opportunities to manage runoff from Biggin Hill Airport linked runoff and to re-development (Strategic Outer London Development Centre) Planning, Biggin Bromley drainage and around maintenance of local drainage ditches and dykes. 23 management LFRMS (FRM) Hill Airport £100K to £500k Biggin Hill Ongoing BR-Copse **Moderate** Consider opportunities for Copse Avenue / Bolderwood Way SuDS Ave; SuDS Bromley retrofit/pilot retrofit pilot with EA/TWUL. LFRMS (FRM) less than £100k EA, TWUL 24 with EA/TW West Wickham BR-River Consider opportunities for surface water management along River Beck (E): Beck East Branch to link to EA study - consider links with Langley Bromley SW Park Golf course. 25 management LFRMS (FRM) West Wickham less than £100k EA Parks, Private BR-Chaffinch Brook: Review modelled (uFMfSW) flood risk for Chaffinch Brook. integrated Integrated drainage strategy in this area to consider fluvial / surface drainage water flood risk in more detail. Bromley study FRMS (FRM) 26 Clock House less than £100k BR-Cedar Work with TWUL to monitor Cedars Road / Durban Road surface Moderate Rd; review PSWS Bromley Currently TWUL issue as shown as PSWS. Keep under review Highways TWUL, Riparian LFRMS (FRM) 27 Clock House TWUL aspirations to divest. Ongoing less than £100k /loderate Churchfield Monitor flow paths and opportunities around Churchfields Recreation Rec Ground; ground, Churchfields Primary School and Maberley Playing Field. Bromley review flow LFRMS (FRM) Clock House less than £100k Parks Education 28 paths Model indicates surface water flood risk around Kingfisher Way, Kinafisher Tannery Close off A222 Croydon Road. Corresponds with historic Wy; SW records. Monitor with a view to integrated drainage strategy in this Integrated area to consider fluvial / surface water flood risk in more detail as TfL, Riparian Highways drainage LFRMS (FRM) Owners, TWUL Kelsey and Eden Park less than £100k Authority 29 strategy BR-Kelsey Integrated combined source study with EA the Beck including review Moderate Kelsey and Eden Park, Riparian Owners, Bromlev Park Lake of flood risk to Beckenham High Street and review of opportunities 30 management LFRMS (FRM) Parks Copers Cope less than £100k EA around Kelsey Park Lake management. Review opportunities for FRM measures around Harvington Sports Harvington Bromley Sports Grd; Ground in association with Environment Agency. LFRMS (FRM) 31 review FRM Kelsey and Eden Park £100K to £500k EA Parks BR-High St: Saturated fields cause runoff onto High Street and Farnborough review runoff Way. Continue to monitor. (Known flood issue - local land owners insist existing infrastructure in good repair). saturated LFRMS (FRM) TfL. Private 32 fields Farnborough and Crofton less than £100k BR-Fan Tail Review Ordinary Watercourse / public sewer asset arrangements Moderate between the Fantail junction (A21/A232 Locksbottom junction) / ictn: review Bromley Highways TfL, TWUL, OW/public Ninhams Wood, along Crofton Road to Mere Close and top of Kyd 33 sewer assets LFRMS (FRM) less than £100k Authority Riparian Owners Farnborough and Crofton BR-Kyd Review of Kyd Brook East (Main River, Ordinary watercourses and Brook E; any TWUL connections) to better define responsibilities for EA. define maintenance - Review ponding around junction of Crofton Road and TWUL. Riparian maintenance Bromley Ormonde Avenue and watercourse joining Kyd Brook East from Highways 34 responsibility LFRMS (FRM) less than £100k Authority Farnborough and Crofton Newstead Woods / Darrick Wood area. Owners BR-Stone ery High Park Ditch; Survey location and condition of Stone Park Ditch (recently - demained) including Woodlead Drive, Pickhurst Park, Broad Oaks survey Way. location and LFRMS (FRM) Riparian Owners 35 condition Shortlands less than £100k

Possible Funding Source

Actions Objectives | National | Partnership | Local | Programme | N1 | N2 | N3 | N4 | N5 | P1 | P2 | P3 | P4 | P5 | P6 | P7 | L1 | L2 | L3 | L4 | L5 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020-2025 | 2025+ FRMP Action Costs Range Partners
Other RMAs | Other Non RMAs Plan Action Owner Name Ward Action description Priority Review modelled flow path from Romanhurst Gardens / Kingswood RR-Moderate Romanhurst Glen, to Cumberland Road, Winchester Road, down to Railway line; Gdns. along Wickham Way and top of Hayes Lane (Chinese roundabout) Railway, against flood history. Review modelled ponding along Southern Highways Wickham Edge of railway line and local drainage / connectivity to 36 Way, Review LFRMS (FRM) Authority Network Rail Shortlands less than £100k Ravensboune (Queen Anne Avenue Hillside Road, Valley Road). BR-Bromley /loderate Cmn; monito Monitor potential development of Bromley Common and Civic Centre sites and seek to include FRM measures through development and FRM Bromlev development. (Planning) LFRMS (FRM) Planning, Parks 37 Bromley Town Ongoing less than £100k BR-Shortland Known surface water issues around Shortland Station, Bromley Park Stn; SW area. Review opportunities for FRM measures alongside Planning, Parks, managemer Environment Agency planned study. LFRMS (FRM) £100K to £500k EA Network Rail Bromley Town BR-/loderate Homesdale Keep development under review - particularly Widmore Gas Holder Rd: keep site off Homesdale Road and around Blackbrook Lane (Planning) development 39 under review LFRMS (FRM) Parks, Planning less than £100k Bickley Ongoing BR-Widmore Rec Ground; Consider attenuation opportunities around Widmore Recreation Bromlev consider Ground and Widmore Centre as opportunities arise. LFRMS (FRM) Parks, Planning £100K to £500k 40 attenuation Bickley BR-Logs Hill; Review existing drainage and opportunities for FRM measures along review Bromley Highways drainage and Holmbury Park. LFRMS (FRM) 41 FRM Bickley £100K to £500k Authority BR-Knoll Moderate Review flow paths around Knoll area including The Covert, and from review flow Red Cedars Road, across Lynwood Grove and down Mayfield paths and Avenue. Review current drainage arrangements and flood history Highways Bromlev drainage these locations and consider need for further action. 42 LFRMS (FRM) Petts Wood and Knoll less than £100k Authority Moderate Beaumont Review opportunities to incorporate review existing drainage and Rd: Links to opportunities for FRM measures around Beaumont Road / Fairfield Highways Bromlev Kyd Brook Road into Environment Agency's Kydbrook and Petts Wood study. I FRMS (FRM) Authority Riparian Owners £100K to £500k 43 Study Petts Wood and Knoll BR-Crystal Review opportunities linked to development of Crystal Palace site, Palace; SW Bromlev 44 Management LFRMS (FRM) including opportunities to make site runoff neutral. (Planning) Parks, Planning Crystal Palace Ongoing £100K to £500k BR-James /loderate Monitor flood events at James Dixon Primary / Orchard School Dixon Sch: Bromlev review flood Sports Centre against modelling. 45 history LFRMS (FRM) Crystal Palace less than £100k Education BR-Cintra Moderate Monitor flood events around Cintra Park, Pleydell Avenue and Park: review LFRMS (FRM) Authority Crystal Palace less than £100k Planning 46 flood risk BR-Hawthor Review opportunities for FRM measures around Anerley (Hawthorn Review FRM Highways Grove, Graveney Grove, Maple Road). LFRMS (FRM) Authority Planning 47 measures Penge and Cator less than £100k BR-Pool Moderate Review other opportunities linked to EA study in Pool River and River; review development Bromley general development of the area. 48 opportunities LFRMS (FRM) Penge and Cator less than £100k EA Riparian Owners BR-Copers /loderate Cope: Monitor Network Rail works to underpass and drainage. Time Review scales to be determined by Network Rail. (Highways issue) Network Rail LFRMS (FRM) Network Rail 49 works Copers Cope less than £100k **BR-Sports** Review opportunities around Business Unit and sports ground re-Ground Developmen development (Metropolitan Open Land) and small scale review development and re-development 50 opportunities LFRMS (FRM) Parks, Planning Copers Cope Ongoing less than £100k Work with EA to consider opportunities for FRM measures through Moderate Sundridge; Sundridge including review drainage and flow paths around New Review FRM Street Hill and Leamington Avenue. Improve understanding of ordinary watercourse tributaries of the Quaggy River. Review neasures Bromley drainage and flow paths around New Street Hill and Learnington LFRMS (FRM) Riparian Owners Plaistow and Sundridge £100K to £500k BR-New St /loderate Monitor Flood events around Milk Street and check against flood Hill: review Bromley history. Consider FRM measures that could mitigate. Highways ponding; 52 FRM FRMS (FRM) Authority Plaistow and Sundridge less than £100k Moderate Chislehurst Parks, Planning, Review (with Bexley) opportunities for attenuation and temporary Ward: review Chislehurst attenuation & storage on Wyncham Stream and tributaries. Bromley Commons storage LFRMS (FRM) £100K to £500k Bexley Conservators 53 Chislehurst

Funding Source

Possible

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FRMP Action	-					Nation		D4 D	Partn				ocal	0045	0040		rogran		000 0005 0	005.	Costs Range		artners Other Non RMAs	
ID Name	Plan	Action Owne	r Ward	Action description	N1 N	12 N3	N4 N5	P1 P	2 P3 P	4 P5	P6 P7	L1 L2	L3 L4 L	2015	2016 2	2017	2018	2019 20	020-2025 2	2025+		Other Rivias		1 Honly
BR-Ashfield Ln; drainage study & 54 runoff review	LFRMS	Bromley (FRM)	Chislehurst	Consider survey of Ordinary Watercourses and Public Surface Water Sewer around Ashfield Lane, Chislehurst Common. Monitor runoff from Elmstead Woods to neighbouring Cemetery. Consider FRM and attenuation measures.	✓				V			✓ ✓									£100K to £500k	Highways Authority	TWUL, Chislehurst Commons Conservators	Moderate
	LFRMS	Bromley (FRM)	Chislehurst	Monitor runoff from Scadbury Park Nature reserve. Seek to make runoff neutral.	✓				v	(✓									less than £100k		Parks, Open Spaces	Low
	LFRMS	Bromley (FRM)	Chislehurst	Work with Chislehurst Common Conservators to promote FRM measures.	✓		✓			✓		✓	✓ 				Ongoi	ng			less than £100k		Chislehurst Common Conservators	Moderate
BR-Petts Wood; OW 57 maintenance	LFRMS	Bromley (FRM)	Chislehurst	Improve understanding of location and condition and maintenance ordinary watercourse for Petts Wood / St Paul's Cary Common.	✓	✓		✓			√	✓	✓								less than £100k		Riparian Owners	Low
BR-City of London Sch; OW 58 maintenance	LFRMS	Bromley (FRM)	Mottingham and Chislehurst North	Improve understanding of location and condition and maintenance of ordinary watercourse through City of London School Recreation Ground. Review FRM and attenuation opportunities through this area.	of 🗸			✓	V		√	√	√								£100K to £500k		Riparian Owners	Moderate
	LFRMS	Bromley (FRM)	Mottingham and Chislehurst North	Monitor events against predicted flow path down Court Farm Road to pond around Eltham College against flood history.	✓				v				√								less than £100k	Highways Authority		Moderate
BR-Priory Gdns; review attenuation 60 potential	LFRMS	Bromley (FRM)	Orpington	Review potential for attenuation in The Priory Gardens.	✓			✓	V				✓								less than £100k		Parks, Planning	Moderate
BR- Ramsden; review risk & 61 flood history	LFRMS	Bromley (FRM)	Orpington	Review flood history against predicted flow paths through Ramsden and Charterhouse Road area.	√			✓					✓								less than £100k	Highways Authority		Moderate
BR-Midfield Wy; review flood risk & drainage	LFRMS	Bromley (FRM)	Cray Valley West	Monitor future events as per modelled flow path along Midfield Way and check against historic flooding and local drainage.	✓	✓						✓	✓								less than £100k	Highways Authority	TWUL	Moderate
BR-Cray Valley W; review FRM & attenuation		Bromley		Review opportunities for FRM and attenuation works linked to development / re-development. (Planning)																			Di i	Moderate
BR-Cray Valley W; review development	LFRMS	Bromley	Cray Valley West	Review opportunities linked to development of strategic outer London industrial areas / business development areas. (Planning)	V ,	v		V				V	,				Ongoi				less than £100k		Planning	Moderate
64 opportunities BR- Hockenden; review rural runoff	LFRMS	(FRM) Bromley	Cray Valley East	Review rural opportunities between Hockenden and Goddington for runoff management.	✓ ,	✓	✓	√				✓	· .				Ongoi	ng			less than £100k		Planning	Moderate
65 management BR-Cray Valley W;	LFRMS		Cray Valley East	Consider Retail resilience to flooding and opportunities for runoff	✓				V			✓	+				Ongoi	ng			less than £100k		Planning	Moderate
review retail resilience, 66 runoff	LFRMS	Bromley (FRM)	Cray Valley East	management through re-development. (Planning)	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	✓		✓				✓	✓ ,				Ongoi	ng			less than £100k		Planning	

Possible Funding Source