

London Borough of Bexley Local Flood Risk Management Strategy Action Plan
September 2015

Actions				Costs Range	Partners	
ID	Action Name	Ward	Action description		Other RMAs	Other Non RMAs
1	BX-Groundwater Risk Map	ALL	Borough wide - study as part of 5 borough group to improve and formalise understanding of areas at risk of groundwater flooding within the London Borough of Bexley. Provide local groundwater flood risk map linked to conditions that result in flood risk to particular areas.	Less than 100K	Partnership, EA	BGS
2	BX-Groundwater monitoring	ALL	Borough wide - review of existing groundwater monitoring sites (boreholes) in relation to areas at risk within London Borough of Bexley. Consider locations of additional sites. Review telemetry arrangements at existing and proposed sites.	Less than 100K	Partnership, EA	BGS
3	BX-Groundwater warning	ALL	Borough wide - review the potential for area specific groundwater flood warnings based on improved understanding, risk map and monitoring. Aim would be to establish Flood Warnings Direct style flood warning areas and establish triggers for alert, warning and severe warning categories or similar.	Less than 100K	Partnership, EA	BGS
4	BX-Culvert Blockage Risk Assessment	ALL	Borough wide - review residual risk of culvert blockage throughout non-main river.	Less than 100K	TWUL, Highways Authority	
5	BX-Borough wide storage and FRM	ALL	Borough wide - ensure the incorporation of storage / infiltration or other FRM measures alongside other works where practical.	500K to 1M	Highways Authority	Planning, Public Realm, Parks, Residents associations
6	BX-Borough wide SuDS	ALL	Borough wide - maintain a strategy to ensure SuDs incorporated in in new developments and redevelopments by applying national, regional and local planning policies, supported by a borough wide education programme. This is particularly relevant in areas likely to derive the most benefit, such as Crayford and Bexley.	500K to 1M	EA	Planning, Developers
7	BX-Borough wide runoff management	ALL	Borough wide - seek opportunities to intercept roof runoff into gardens and promote the use of green and permeable coverings in gardens. Replace footways with permeable tarmac where practical.	Less than 100K		Planning, Transport
8	BX-Wyncham Stream Risk Map	Blackfen & Lamorbey / Longlands / Sidcup	Study to improve and formalise understanding of areas at risk of fluvial flooding along the Wyncham Stream (ordinary watercourse).	Less than 100K	EA	Riparian Owners



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9	BX-Wyncham Stream Warning and Stream Telemetry	Blackfen & Lamorbey / Longlands / Sidcup	Review existing flood warning arrangements for River Shuttle and Wyncham Stream and options for extending these upstream on Wyncham Stream (ordinary watercourse). Review need for additional telemetry.	100K to 500K	EA	Riparian Owners
10	BX-Wyncham Stream SoP	Blackfen & Lamorbey / Longlands / Sidcup	Look to enhance surface water drainage systems and performance of Wyncham Stream, increasing protection to properties within the catchment. Aim to achieve a target of 1 in 70 year return period protection level.	100K to 500K	EA	Riparian Owners
11	BX-Highway Drainage improvements - Old Farm Av	Blackfen and Lamorbey	Review and identify improvements to drainage in Halfway Street and Woodlands Avenue, Sidcup (as part of Wyncham Catchment Study).	Less than 100K	Highways Authority, EA	
12	BX-Review potential for FRM in Berwick Crescent	Blackfen and Lamorbey	Review potential for FRM measures in Berwick Crescent open space (Sidcup) as modelling and flood records identify flooding affects properties and highway in Berwick Crescent and Oaklands Avenue, Sidcup. Identify opportunities for river restoration and remediation of existing flood wall to improve biodiversity and flood storage in Hollyoak Wood Park.	100K to 500K	Highways Authority, EA	Transport
13	BX-Review opportunities for Storage in Parish Wood	Blackfen and Lamorbey	Review opportunities for storage in Parish Wood (Sidcup) and surrounding area.	100K to 500K	EA	Parks
14	BX-Review FSA opportunities Greenwich campus	Blackfen and Lamorbey	Review potential of joint opportunities for wetland/storage area at University of Greenwich campus (Avery Hill) (as part of Wyncham study)	less than 100k	EA	University of Greenwich
15	BX-Wyncham Stream FAS / joint policy	Longlands	Review potential for joint policy with Bromley on upstream management of Wyncham Stream and associated catchment, including opportunities for storage.	Less than 100K	LB of Bromley, EA	Riparian Owners



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16	BX-Review potential for FSA at King George's Field	Longlands	Maintain King George's Field and Longlands Recreation Ground (Sidcup) as public open space to protect the functional flood storage area they provide during extreme surface water flooding events.	Less than 100K	EA	Parks
17	BX-Sidcup railway embankment	Sidcup	Major problems around the railway embankment and railway underpass. Explore opportunities linked to station access and upstream storage.	100K to 500K	EA,	Network Rail, Parks
18	BX-Hall Place - asset mapping pilot	Barnehurst / Crayford	Pilot mapping of assets at Hall Place (Bexley) to include mapping watercourses and asset register.	Less than 100K	EA, Highways Authority	Parks
19	BX-Crayford Integrated Drainage study/ SuDS	Crayford	Extend integrated drainage study in Crayford to provide further options assessment / development required to identify the most effective scheme to reduce flood risk within Crayford. Ideally this scheme will increase the level of protection to at least a 70 year return period. The identified scheme will then be implemented.	100K to 500k	EA, TWUL	
20	BX-Joyden's Wood drainage ditches - Maintenance	Cray Meadows	Keep maintenance of Joyden's Wood (Bexley) drainage ditches under review - these are poorly maintained but results in some flood storage potential. Should maintenance be instigated (either in Bexley or Kent) then review opportunities to introduce 'check-weirs' to hold water back and slow response of catchment to rapid response events. Note Hurst Grid Sub Station downstream of wood.	less than 100k	EA, Highways Authority	Parks
21	BX-High Street Bexley station SW management	St. Mary's	Review surface water flooding issues around Bexley Village, related to lack of permeable ground coverings resulting in excessive demand on formal drainage systems. Identify long list of potential solutions.	100K to 500K	Highways Authority	Network Rail
22	BX-Apperfield Rd/Reddy Rd Drainage improvements	North End	Work with TWUL to ensure drainage is monitored and maintained around Apperfield Road and Manor Road, Erith, where significant surface water issues were experienced prior to TWUL maintenance of sewers in February 2010.	Less than 100K	TWUL, Highways Authority	
23	BX-Erith SW overflow management	Erith	Look to provide upstream storage capacity to address surface water issues in Riverdale Rd, Church Rd and Pembroke Road, Erith.	100K to 500K	TWUL, Highways Authority	Education



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24	BX-Pembroke Road watercourse	Erith	Work with TWUL to develop partnership funding scheme to reduce risk of combined surface water flooding and sewer flooding in Pembroke Road, Erith and surrounding area.	Less than 100K	TWUL, EA, Highways Authority	
25	BX-Fraser Road SW flood resilience	Erith	Address historical surface water flooding in Fraser Road, Erith in developer proposals linked to Erith Quarry development.	Less than 100K	Highways Authority, TWUL	Developers
26	BX-Lower Belvedere holistic maintenance	Belvedere	Develop closer partnership working arrangements to secure improved maintenance of the main river / ordinary watercourse network draining upper and lower belvedere.	Less than 100k	Highways Authority	Network Rail and Riparian owners
27	BX-Thamesmead ditches and dykes-continuous system	Thamesmead East and Lesnes Abbey	Assist the EA project of evaluation of the Thamesmead ditch and dyke system including optioneering of improvements or changes in maintenance regime.	100K to 500K	EA, Highways Authority	
28	BX-St Michael's ward - drainage review	St Michael's	Review areas that lack formal drainage to include survey, modelling and options assessment.	500K to 1M	EA	
29	BX-Brampton ward - drainage capacity	Brampton	Work with TWUL to develop partnership funding scheme to reduce flood risk around Long Lane, Heversham Road, Swanbridge Road and Wenvoe Avenue, Bexleyheath. Requirement for offline storage ,education and encouraging uptake of retrofit SuDS.	500K to 1M	TWUL	



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