Appendix G

ACTION PLAN

Broxbourne SWMP Detailed Action Plan

Item	Type	Action	Priority
R1	Rye House - North Hoddesdon	Secure funding and implement Property Level Protection (PLP) for the properties affected by flooding in this hotspot.	H
R2	Rye House - North Hoddesdon	Give due consideration to alternative mitigation measures to ensure that PLP is the most suitable approach for all areas of the hotspot.	H
R2i	Rye House - North Hoddesdon	Investigate whether attenuation of water spilling from Hayley Lane into Hailey Hall School fields would reduce flooding to the properties downstream of Ware Road.	H
R2ii	Rye House - North Hoddesdon	Investigation on the flow paths between properties from Ware Road to the east would be required. Measures to keep preferential flowpaths along the road or alleyways should be also further investigated. Property Level Protection should be investigated further if there are no viable alternative measures.	H
R2iii	Rye House - North Hoddesdon	Install a speed bump or high capacity drain at the entrance of Beyers Prospect linked to a swale in the green island between Beyers Prospect and Bridleway North. This recommendation is expected to keep the preferential flowpath along the swale, thus reducing water flowing through the properties to the east of Beyers Prospect	H
R2iv	Rye House - North Hoddesdon	Maximize attenuation area in the park to the east of Bridle Way South and ensure that the swale upstream is connected to this attenuation area (e.g. pipe under Dymokes Way). Flows along Bridle Way should also be diverted and spill into this attenuation area.	H
R2v	Rye House - North Hoddesdon	Enhance status of the wall at the underpass as a flood defence barrier.	H
R2vi	Rye House - North Hoddesdon	Consider the installation of higher capacity drains at the three junctions of Glenester Close and Bridle Way South. This is expected to reduce flows affecting the properties downstream.	H
R2vii	Rye House - North Hoddesdon	Potential attenuation in the park between Dorchester Avenue and Tregelles Road, ensuring preferential flowpath is kept along Tregelles Road and spills into the attenuation area.	H
R2viii	Rye House - North Hoddesdon	Investigate blocking the flowpath between the properties located in the area between Thurgood Road, Middlefield Road and Fairfield Road.	H
R2ix	Rye House - North Hoddesdon	Ensure that preferential flowpath is kept along Middle Field Road and Stansted Road and directed into Rye Park, where attenuation should be provided.	H
R2x	Rye House - North Hoddesdon	Bund to the north of Rye Park to reduce interaction with fluvial and surface water flooding to limit the combined depths.further investigation into the overlap and interactions between the fluvial flooding and the surface water floodingwill be required.	H
CH1	Cheshunt	Secure funding and implement Property Level Protection (PLP) for the properties located to the east of High Street.	H
CH2	Cheshunt	Infill the existing wall at the back entrance to the courtyards located to the south of Kilsmore Lane. This wall is expected to cut the flowpath into the service yards of the shops and remove the ponding.	H
CH3	Cheshunt	The installation of a swale along the side of Church Lane to convey flows from Church Lane and a depression to connect to either the drainage system or the New River given that the swale will provide water quality treatment. This is expected to reduce ponding in Whitefields Road.	H
CH4	Cheshunt	Give due consideration to alternative mitigation measures to ensure that PLP is the most suitable approach for all areas of the hotspot.	H
CH4i	Cheshunt	Investigation into measures to keep preferential flow path on High Street (e.g. speed bumps, reprofiling levels) is expected to reduce flooding of the properties downstream. Reprofiling or speedbumps on the side road of High Street should be investigated to keep the flowpath along High Street and remove flowpaths between the properties located to the east of High Street. These measures would reduce flooding downstream and thus the need for Property Level Protection in the area to the east of High Street. Likewise, repofiling or installation of a speed bump in the junction of High Street with Gew's Corner and Hanbury Close should be investigated. If these measures are adopted, investigation should be undertaken onto ensuring the discharge of flows conveyed along High Street into Woollens Brook and avoid ponding on the road further downstream.	H

Item	Type	Action	Priority
CH4ii	Cheshunt	Should this further modelling demonstrate that additional storage is required, then the potential for attenuation on the recreation grounds located in Penton Drive could be investigated.	H
CH5	Cheshunt	A site visit, potentially combined with further investigation, should be undertaken to determine preferential flowpath and need for Property Level Protection in Prospect Road.	H
C1	Cozens Lane East - Wormley	Improve capacity of existing culverts crossing the railway at Lammasmead, Fairfield Drive and Sorbus Road, in order to reduce ponding against the railway.	H
C2	Cozens Lane East - Wormley	New culverts crossing the railway at Cozens Lane East, Wharf Road and Slipe Lane in order to reduce ponding against the railway.Extensive consultation with Network Rail should be undertaken in order to determine the viability of this option.	H
C3	Cozens Lane East - Wormley	Give due consideration to alternative mitigation measures to ensure that culvert enhancement is the most suitable approach.	H
C3i	Cozens Lane East - Wormley	Investigation into building a swale running between Cozens Lane East and the railway. This swale would provide additional attenuation and convey flows into the existing and new culverts under the railway.	H
C3ii	Cozens Lane East - Wormley	Investigation into measures to keep a preferential flow path on the following roads (e.g. via raising kerbs, rills, reprofiling levels) and then connecting these into the swale downstream: • Cozens Lane East (speed bump / reprofiling in junction with Sulverfield) • Cozens Lane East (speed bump / reprofiling in junction with Lammasmead) • Fairfield Drive • Slipe Lane	H
C3iii	Cozens Lane East - Wormley	Potential attenuation Broxbourne Junior Mixed and Infant School fields. A bund to the south of the school fields would retain water that flows down to Windford Drive and result in ponding against the railway.	H
C3iv	Cozens Lane East - Wormley	Potential attenuation in Wormley Primary School fields for water flowing from Cozens Lane East and Windford Drive.	H
C3v	Cozens Lane East - Wormley	Potential attenuation in Wormley Primary School fields.	H
C3vi	Cozens Lane East - Wormley	Further investigation on the flow paths between properties from High Road Wormley to the east would be required. Measures to keep preferential flowpaths along the road or alleyways should be further investigated (e.g. raising kerbs, rills, reprofiling levels).	H
C3vii	Cozens Lane East - Wormley	Further investigation on the flow paths between properties from High Road Broxbourne and High Road Turnford to the east would be required. Measures to keep preferential flowpaths along the road or alleyways should be further investigated (e.g. raising kerbs, rills, reprofiling levels).	H
RN1	Rosedale North - Flamstead End	At the north eastern corner of Rosedale Way undertake road reprofiling or install a speed bump in order to divert flows and keep the preferential flowpath along Rosedale Way. This should be combined with installation of a high capacity drain and culvert to collect this flow and discharge it into Rags Brook.	H
RN2	Rosedale North - Flamstead End	Construction of a ditch parallel to Rosedale Way to convey surface water to Rags Brook. Ensure that flows from Granby Park Road are diverted into this swale instead of flowing down along Rosedale Way (e.g. high capacity drain/reprofiling road).	H
RS1	Rosedale South - Flamstead End	Property Level Protection on the properties to the south of Rosedale Way and Westmeade Close.	H
RS2	Rosedale South - Flamstead End	Property Level Protection on the properties to the south of the recreation grounds (south of Goffs Lane).	H
RS3	Rosedale South - Flamstead End	Give due consideration to alternative mitigation measures to ensure that culvert enhancement is the most suitable approach.	H
RS3i	Rosedale South - Flamstead End	Obtain topographical survey to confirm whether the flow path splits at the pedestrian crossing. There is potentially a need for a wall to cut off the flowpath from Goffs Lane to Cussons Close.	H

Item	Type	Action	Priority
RS3ii	Rosedale South - Flamstead End	Investigate measures to keep preferential flow along Rosedale Way, such as: • Road reprofiling/speed bump on the junction between Westmeade Close and Rosedale Way (by Westmeade Close); and • Reprofiling of footpath in order to provide a consistent high level barrier provided by the existing grass landscaping. These measures may remove the need for Property Level Protection in the properties to the south of Rosedale Way and Westmeade Close	H
RS3iii	Rosedale South - Flamstead End	Ensure that preferential flowpath along Rosedale Way spills into the drain downstream. Reprofile the drain to ensure preferential flowpath, ensuring this does not affect any properties.	H
RS3iv	Rosedale South - Flamstead End	Investigate potential attenuation (e.g. pond) on the playing fields, which would reduce the need for Property Level Protection in the properties downstream of the recreation grounds.	H
RS3v	Rosedale South - Flamstead End	Ensure the attenuation area to the west of Lieutenant Ellis Way (B108) operates and is controlled as modelled. Investigate the potential to increase the attenuation capacity upstream to reduce water flowing downstream.	H

Priority:
L= Low
M = Medium
H = High