

Southampton Surface Water Management Plan (SWMP) Action Plan

September 2011

Ref	Action	Priority	Hotspot	Action Output	Lead Partner	Target start date	Target end date	Estimated cost	Stakeholder involvement	Potential funding sources
Non-structural actions										
1	Continue existing partnership to implement the SWMP	High		Partnership working on managing surface water flood risk within the city	SCC (FRM)	Ongoing		Staff input	Southern Water Environment Agency ABP Network Rail	
2	Review & update the multi-agency response plan in light of the outputs of the SWMP	Low	All	Ensure the high risk locations are identified in the multi-agency flood plan	SCC (Emergency Planning)	Scheduled first review of the plan (2013)		Staff input	Local Resilience Forum Environment Agency	
3	Inform other Category 1 responders of the outputs of the SWMP	High	All	Information included in the risk assessment process at the local & county level	SCC	2011	2011	Staff input	Local Resilience Forum	
4	Inform & advice planners of the potential areas that are vulnerable to surface water flooding	High	All	Find opportunities for the use of SuDS in new development	SCC (FRM)	2011	2012 (SuDS Approval Body to be introduced)	Staff input	Environment Agency Southern Water	
5	Develop & implement an engagement plan to communicate the outputs of the SWMP to the public	High	All	Communicate the risk to public & input on development of schemes	SCC	2011	2012	Staff input Comms input	Southern Water Environment Agency ABP Network Rail	
6	Develop & implement a detailed programme for engaging & involving local communities prior to the design & implementation of capital schemes	High		Community involvement with the development of schemes	SCC	Ongoing throughout the development of schemes		Staff input Comms input	Southern Water Environment Agency ABP Network Rail	
7	Investigate flooding incidents in accordance with the Flood & Water Management Act 2010	High	All	Identify the relevant risk management authority & establish if that authority has responded or is intending to respond	SCC	Ongoing		Staff input	Southern Water Environment Agency ABP Network Rail	
8	CCTV surveying & inspection of the surface water network at high risk hotspot areas	High	FH-24 FH-25 FH-35	Determine the condition of key drainage infrastructure to develop appropriate flood mitigation measures at these locations	SCC	2012	2012	£10,000- £50,000	Southern Water Environment Agency	SCC

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9	Identify & input to relevant future projects across the city that can be tailored to deliver additional benefits for surface water management	High	All	Find opportunities to deliver benefits for surface water management within planned projects	All	Ongoing			SCC Southern Water Environment Agency ABP Network Rail	Dependent on project & if additional funding sources are required
Capital & maintenance actions										
10	Continue to develop and implement maintenance schedules on highways assets that have a flood risk management function	High	All	Reduced highway related flooding incidents	SCC (Highways)	Ongoing		Within existing budgets	Balfour Beatty	SCC
11	Continue to develop and implement maintenance schedules on open space assets that have a flood risk management function	High	All	Reduced flooding incidents on public land	SCC (Open Spaces)	Ongoing		Within existing budgets		SCC
12	Prioritising planned maintenance works that are linked to high risk hotspots	High	All	Prevent exacerbation of flooding at these locations	SCC (Highways/ Open Spaces)	Ongoing		Within existing budgets		SCC
13	Maintenance & clearing of the Millbrook ditch (running on southern side of main railway line)	High	FH-15 FH-16	Prevent exacerbation of flooding at these locations	Network Rail	Ongoing			ABP SCC	
Tanners Brook										
14	Complete a feasibility study on the installation of in-channel features to Tanners Brook channel section between Winchester Road and Millbrook Road West	High	FH-15 FH-16	Determine the feasibility of completing the scheme	SCC (FRM/ Highways/ Open Spaces)	2011	2012	£5,000 - £20,000	Environment Agency Southern Water ABP	SCC
15	Design & installation of in-channel features to Tanners Brook channel section between Winchester Road and Millbrook Road West following successful completion of the feasibility study	Medium	FH-15 FH-16	Mitigate flood risk to these high- risk hotspots	SCC (FRM/ Highways/ Open Spaces)	2012 - 2015 (dependent on funding)		£50,000 - £200,000	Environment Agency Southern Water ABP	SCC FDGiA WFD
16	Complete a feasibility study on the implementation of a sustainable drainage system within the Lordsdale Greenway area, adjacent to Tanners Brook	High	FH-15 FH-16	Determine the feasibility of implementing a SuDS system	SCC (FRM/ Highways/ Open Spaces)	2011	2012	£5,000 - £20,000	Environment Agency Southern Water	SCC

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17	Design & installation of a sustainable drainage system within the Lordsdale Greenway area, adjacent to Tanners Brook	Medium	FH-15 FH-16	Mitigate flood risk to these high- risk hotspots through additional water storage capacity	SCC (FRM/ Highways/ Open Spaces)	2012 - 2015 (dependent on funding)		£200,000 - £500,000	Environment Agency Southern Water	SCC FDGiA WFD
<i>Holly Brook</i>										
18	Complete a feasibility study on the installation of on-line control features to Holly Brook between Southampton Sports Centre to the merging point with Tanners Brook	High	FH-15 FH-16	Determine the feasibility of completing the scheme	SCC (FRM/ Highways/ Open Spaces)	2011	2012	£5,000 - £20,000	Environment Agency Southern Water	SCC
19	Design & installation of on-line control features to Holly Brook between Southampton Sports Centre to the merging point with Tanners Brook following successful completion of the feasibility study	Medium	FH-15 FH-16	Mitigate flood risk to these high- risk hotspots	SCC (FRM/ Highways/ Open Spaces)	2012 - 2015 (dependent on funding)		£50,000 - £200,000	Environment Agency Southern Water	SCC FDGiA WFD
20	Complete a feasibility study on the implementation of a sustainable drainage system within the Lordsdale Greenway area, adjacent to Holly Brook (between Shirley Pond & junction with Tanners Brook)	High	FH-15 FH-16	Determine the feasibility of implementing a SuDS system	SCC (FRM/ Highways/ Open Spaces)	2011	2012	£5,000 - £20,000	Environment Agency Southern Water	SCC
21	Design & installation of a sustainable drainage system within the Lordsdale Greenway area, adjacent to Holly Brook (between Shirley Pond & junction with Tanners Brook)	Medium	FH-15 FH-16	Mitigate flood risk to these high- risk hotspots through additional water storage capacity	SCC (FRM/ Highways/ Open Spaces)	2012 - 2015 (dependent on funding)		£50,000 - £200,000	Environment Agency Southern Water	SCC FDGiA WFD
22	Complete a feasibility study on the implementation of a sustainable drainage system within the Southampton Sports Centre grounds, adjacent to Holly Brook	High	FH-15 FH-16	Determine the feasibility of implementing a SuDS system	SCC (FRM/ Highways/ Open Spaces)	2011	2012	£5,000 - £20,000	Environment Agency Southern Water	SCC

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23	Design & installation of a sustainable drainage system within the Southampton Sports Centre grounds, adjacent to Holly Brook	Medium	FH-15 FH-16	Mitigate flood risk to these high- risk hotspots through water attenuation	SCC (FRM/ Highways/ Open Spaces)	2012 - 2015 (dependent on funding)		£50,000 - £200,000	Environment Agency Southern Water	SCC FDGiA WFD
<i>Rolles Brook</i>										
24	Complete a feasibility study on the installation of on-line control features to Rolles Brook	High	FH-21 FH-26	Determine the feasibility of completing the scheme	SCC (FRM/ Highways/ Open Spaces)	2011	2012	£5,000 - £20,000	Environment Agency Southern Water Network Rail ABP WestQuay	SCC
25	Design & installation of on-line control features to Rolles Brook	Medium	FH-21 FH-26	Mitigate flood risk to these high- risk hotspots	SCC (FRM/ Highways/ Open Spaces)	2012 - 2015 (dependent on funding)		£50,000 - £200,000	Environment Agency Southern Water Network Rail ABP WestQuay	SCC FDGiA WFD
26	Complete a feasibility study on the implementation of a sustainable drainage system within Southampton Common	High	FH-21 FH-26	Determine the feasibility of implementing a SuDS system	SCC (FRM/ Highways/ Open Spaces)	2011	2012	£5,000 - £20,000	Environment Agency Natural England	SCC
27	Design & installation of a sustainable drainage system within Southampton Common	Medium	FH-21 FH-26	Mitigate flood risk to these high- risk hotspots through water attenuation	SCC (FRM/ Highways/ Open Spaces)	2012 - 2015 (dependent on funding)		£200,000 - £500,000	Environment Agency Natural England	SCC FDGiA WFD
<i>Jurd's Lake</i>										
28	Complete a feasibility study on the implementation of a sustainable drainage system within Millers Pond	High	FH-51	Determine the feasibility of implementing a SuDS system	SCC (FRM/ Highways/ Open Spaces)	2011	2012	£5,000 - £20,000	Environment Agency Southern Water	SCC
29	Design & installation of a sustainable drainage system within Millers Pond	Medium	FH-51	Mitigate flood risk to this high- risk hotspot through water attenuation	SCC (FRM/ Highways/ Open Spaces)	2012 - 2015 (dependent on funding)		£200,000 - £500,000	Environment Agency Southern Water	SCC FDGiA WFD
<i>Follow up actions</i>										
30	Establish ownership of assets & infrastructure, where clarification is required	High	All	Flood risk management functions are easily identified	All	Ongoing		Staff input	Southern Water Environment Agency ABP Network Rail	

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31	Improve surface water modelling through introduction of a comprehensive pipe system to the model	Low	All	Increase understanding of potential flood risk from the urban drainage system	SCC/ Southern Water		Completion of first review of the SWMP	£100,000	Southern Water Environment Agency ABP Network Rail	
32	Review flood hotspot areas with Digital Elevation Model data (includes buildings)	Low	All	Increase understanding of potential flood risk from surface water at hotspot locations	SCC		Completion of first review of the SWMP	£1,000 - £5,000	Environment Agency	
33	Review and update the SWMP as required (every six years as a minimum)	Low	All	Update the SWMP with the most up-to-date data & new information	SCC	2012-2017		£1,000 - £50,000	Southern Water Environment Agency ABP Network Rail	
34	Review the SWMP action plan annually	Medium	All	Review progress & update the action plan as relevant	SCC	2012		Staff input	Southern Water Environment Agency ABP Network Rail	