

**DRAFT SWMP ACTION PLAN - ESSEX COUNTY COUNCIL**

ID	Action		Location		Priority Ranking	Cost			Benefit	Potential Funding Source	Timing			Action Type	Responsibility			Other Stakeholders	EU Related	Review	
	What?	How?	CDA ID	Where		Investigation/F easibility	Capital	Other			Timeframe	Start Date	Approx. Duration		Lead Organisation	Dept.	Primary Support			Frequency	Next Review Date
<b>Action 1</b>	Implement a standardised Flood Incident Log to record and investigate future flooding incidents across the South Essex study area	Implement a standardised flood incident log to record flood events. Educate departments involved in filling in the spreadsheet to ensure everyone involved understands the log and the methodology. It is recommended that the source of flooding be recorded, e.g. gully surcharging, to inform maintenance priorities	All	South Essex Study Area	High			<£25k	Improved procedures and protocol for recording flood events and flood risk across the study area. Will provide improved historical flood information to support ongoing and future flood mitigation schemes.		Short		3 months	Flood and Water Management Act / Flood Risk Regulations	Essex CC	LLFA - Flood Investigation Officer	Basildon BC, Castle Point BC and Rochford DC	ECC Highways	Yes		N/A
<b>Action 2</b>	Work with AWS to identify where sewer flooding influences surface water flooding	Discuss existing sewer flood risk with AWS and agree areas where sewer flooding is likely to impact surface water flooding, and therefore areas where flood mitigation actions should be prioritised	All	South Essex Study Area	High			<£25k	A better understanding of where Anglian Water have a role to play in managing and reducing surface water flood risk		Short		6 months	Flood and Water Management Act / Flood Risk Regulations	Essex CC	LLFA	AWS	Basildon BC, Castle Point BC and Rochford DC		One-off	Feb-2012
<b>Action 3</b>	Actively engage political stakeholders	Engage political stakeholders as appropriate within formal political structures and communication protocols - as determined in the Communication Plan	All	South Essex Study Area	High			<£25k	Ensure political acceptance and buy in is achieved and that political influence is used positively to support and fund flood risk actions		Short		6 months	Communication / Partnerships	Essex CC		Essex CC		No	On-off	Mar-2012
<b>Action 4</b>	Raise Community Awareness - Identify areas where Community Flood Plans may be effective and consider opportunities to develop these, in conjunction with the local community	Identify where either options and measures are unlikely to significantly reduce flood depth or where options and measures are unlikely to be cost effective - these areas will need specific focus in terms of raising community awareness. The potential to develop a community flood plan should be discussed with the local community in these areas with the 'information portal' used to begin the process	All	Communities identified to be at risk throughout the study area (i.e. within PSWFHs)	Medium	<£25k		Unknown	Increase awareness of flood risk in communities, therefore improving resilience to flooding and encouragement to implement property-level mitigation measures		Short		6 months	Communication / Partnerships	Essex CC		Local Residents	EA, AWS	Half Yearly		Jul-2012
<b>Action 5</b>	Land management - Increase urban vegetation coverage	Develop planting of trees and bushes along streets and car parks, potentially using bioretention systems. Incorporate this with policies relating to public spaces.	All	South Essex Study Area	Low			Unknown	Ensure existing area of drainage / infiltration is maximised to ensure flooding is not exacerbated through compacted ground		Medium		12 months	Flooding Mitigation Action	Essex CC, Basildon BC, Castle Point BC and Rochford DC				No		Apr-2012
<b>Action 6</b>	Ongoing Improvements to the Maintenance of the Drainage Network - targeted maintenance of drainage network	Improved and targeted maintenance, i.e. within CDAs. Ensure gullies and ordinary watercourses in CDAs are targeted for cleaning and clearance at least once a year, prior to 'rainfall' season. Focus attention on the maintenance of gully pots in the identified CDAs which are considered to be high risk and on those areas identified as being at risk from blocked gullies.	All	Within CDAs	Medium		Unknown		Existing drainage systems are maximised and operating at full potential, to ensure flooding is not exacerbated through blocked or part-working networks		Medium		Ongoing	Flooding Mitigation Action	Essex CC	ECC Highways			No		Apr-2012
<b>Action 7</b>	Identify rights of ownership for drainage ditches.	Assist Essex CC in identifying the rights of ownership of drainage ditches within the CDA and ensure information is included within the Essex CC South Essex Asset Register.	All	Within CDAs	High			<£25k	Where action is required to remove potential blockages that may cause flooding from ordinary watercourses, riparian owner can be contacted quickly to allow access to remove obstruction before flooding occurs					Policy Action	Essex CC	LLFA / ECC Highways			No	Quarterly	Apr-2012
<b>Action 8</b>	Planning Policy - Runoff Rates from New Development	Councils should consider enforcing tighter restrictions on surface water discharge limits. Local Planning Policies could be created for development within CDAs to aim to reduce runoff rates should to a minimum level of 50% of existing runoff rates to alleviate flood risk created by the site.	All	Within CDAs	Medium			<£25k	Flood risk to properties and surrounding properties is not exacerbated through implementing hardstanding, impermeable surfaces					Policy Action	Essex CC	Development Control	Basildon BC, Castle Point BC and Rochford DC				
<b>Action 9</b>	Planning Policy - Use of SuDS	Update existing policies that state the use of SuDS within new development to highlight the preferred SuDS mechanisms used for the control of surface water runoff generated from the site.	All	South Essex Study Area	Medium			<£25k	More influence on preferable use of SuDS for surface water management					Policy Action	Essex CC	SuDS	Basildon BC, Castle Point BC and Rochford DC				
<b>Action 10</b>	Formalise Washlands, flood storage areas and detention basins.	Identify these areas (and their ownership) throughout the authority area that accommodate surface water runoff through design or location. Formalise these areas to ensure their integrity is not negatively influenced by new development and develop a management plan for ongoing management and maintenance of their storage function	All	South Essex Study Area	High			<£25k	Identify owners and managers of Washlands and improve management of them.		Medium		6 months	Policy Action	Essex CC, Basildon BC, Castle Point BC and Rochford DC	Planning			No		
<b>Action 11</b>	Planning policy - Information on SuDS	Design and publish a SuDS Design and Adoption Guide	All	South Essex Study Area	Medium			Unknown	Flood risk to properties and surrounding properties is not exacerbated through implementing SuDS techniques		Medium		Ongoing	Policy Action	Essex CC	SUDS	Basildon BC, Castle Point BC and Rochford DC	EA			
<b>Action 12</b>	Planning policy - Paved driveways	Provide a section in the SuDS Design and Adoption Guides that residents can consult for further information on permeable paving, including links to other organisations (e.g. EA) who can provide 'best practice' guidance and examples.	All	South Essex Study Area	Low			Unknown	Flood risk to properties and surrounding properties is not exacerbated through implementing hardstanding, impermeable surfaces		Medium		Ongoing	Communication / Partnerships	Essex CC	SuDS	Basildon BC, Castle Point BC and Rochford DC	EA	No		
<b>Action 13</b>	Planning policy - Permeable surfaces	Councils could use the SuDS Design and Adoption Guide to o raise awareness of the options for installation and maintenance of permeable surfaces within property grounds.	All	South Essex Study Area	Low			Unknown	Flood risk to properties and surrounding properties is not exacerbated through implementing hardstanding, impermeable surfaces		Medium		Ongoing	Policy Action	Essex CC	SUDS	Basildon BC, Castle Point BC and Rochford DC	EA	No		
<b>Action 14</b>	Water conservation - Incentive scheme	Councils could explore providing an incentive scheme for the use of rainwater harvesting systems or water butts. This may be linked to the Council's sustainability checklist.	All	South Essex Study Area	Low		Unknown		Potential for localised reduction in peak surface water discharge during rainfall events. Is likely to have positive sustainability and water conservation impacts, and provides educational opportunities where systems are fitted to schools / public buildings		Medium		Ongoing	Flooding Mitigation Action	Essex CC, Basildon BC, Castle Point BC and Rochford DC	SUDS					
<b>Action 15</b>	Planning policy - rainwater harvesting	Councils could explore the potential for installation of rainwater harvesting on new or regenerated development areas. In particular where there is a large footprint and high potential use.	All	South Essex Study Area	Low		Unknown		Potential for localised reduction in peak surface water discharge during rainfall events. Is likely to have positive sustainability and water conservation impacts, and provides educational opportunities where systems are fitted to schools / public buildings		Medium		Ongoing	Flooding Mitigation Action	Essex CC, Basildon BC, Castle Point BC and Rochford DC	SUDS		EA			
<b>Action 16</b>	Water conservation - retrofitting rainwater harvesting	Investigate the feasibility of retrofitting rainwater harvesting systems to council owned buildings, such as schools and libraries.	All	South Essex Study Area	Low		Unknown		Potential for localised reduction in peak surface water discharge during rainfall events. Is likely to have positive sustainability and water conservation impacts, and provides educational opportunities where systems are fitted to schools / public buildings		Medium		Ongoing	Flooding Mitigation Action	Essex CC, Basildon BC, Castle Point BC and Rochford DC	SUDS		EA			
<b>Action 17</b>	Water conservation - Water Butts in all new residential developments	Consider the installation of water butts in all new residential developments to provide source control and helps to meet sustainability goals. This can be enforced through planning policy	All	South Essex Study Area	High			Unknown	Potential for localised reduction in peak surface water discharge during rainfall events. Is likely to have positive sustainability and water conservation impacts.		Medium		Ongoing	Flooding Mitigation Action	Essex CC, Basildon BC, Castle Point BC and Rochford DC	SUDS		EA			
<b>Action 18</b>	Water conservation - Water Butts in all existing residential developments	Consider retrofitting water butts on all existing development. This provides supplementary benefits beyond regeneration and redevelopment sites (volumetric reduction with opportunity for complimentary water quality improvements).	All	South Essex Study Area	Low			Unknown	Potential for localised reduction in peak surface water discharge during rainfall events. Is likely to have positive sustainability and water conservation impacts.		Medium		Ongoing	Flooding Mitigation Action	Essex CC, Basildon BC, Castle Point BC and Rochford DC	SUDS		EA			
<b>Action 19</b>	Water conservation - promotion of water butts	Consider promoting the use of water butts across the study area and provide information (either directly or through links to external websites) on potential costs, installation and benefits.	All	South Essex Study Area	Low			<£25k	Potential for localised reduction in peak surface water discharge during rainfall events. Is likely to have positive sustainability and water conservation impacts.		Medium		Ongoing	Flooding Mitigation Action	Essex CC, Basildon BC, Castle Point BC and Rochford DC	SUDS		EA			



SOUTH ESSEX  
SURFACE WATER MANAGEMENT PLAN



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Action 20	Develop Emergency response Strategy	Council departments and emergency services should develop an emergence response strategy based on the modelled outputs from the SWMP. Emergency actions should be focussed on PSWFH where the risk of surface water flooding is greatest.	All	South Essex Study Area	Medium	<£25k			Improved response plan and response time to floodign incidents		Short		Ongoing	Communication / Partnerships	Essex CC	Emergency Planning	Basildon BC, Castle Point BC and Rochford DC				
Action 21	FDGiA funding for priority schemes	Put forward priory capital shomes for FDGiA funding	All	South Essex Study Area	High		<£25k		Potential for CDAs/PSWFHs to receive funding to undergo further investigation or capital works to reduce flood risk		Short		6 months	Flooding Mitigation Action	Essex CC	LLFA	Basildon BC, Castle Point BC and Rochford DC				
Action 22	Develop, update and maintain the draft Action Plan	Review and update the draft Action Plan in conjunction with Essex wide annual action plans.	All	South Essex Study Area	High			<£25k	Established procedure for managing and agreeing on future flood mitigation and management across the study area.		Short		Ongoing	Flood and Water Management Act / Flood Risk Regulations	Essex CC	LLFA	Basildon BC, Castle Point BC and Rochford DC	EA, AWS		Annually	Apr-2012