

Appendices

A Data Review

Tables A-1 to A-7 describe the data collated from the Kent County Council and the key partners, its quality and relevance to the Surface Water Management Plan.

Table A-1 Data provided by the Environment Agency

Data Received	Details	Quality of Data
EA -Historical flooding info	Outlines of Historic Flooding	The historic flooding does not take into account the combined fluvial and tidal flooding
North Kent Rivers CFMP	Outlines Policy Units and their applicable policies	This is useful in determining where strategic measures may be useful

Table A-2 Data provided by Kent County Council

Data Received	Details	Quality of Data
Flood Map	Environment Agency Flood Zone maps.	Defines the National Flood Zone Maps, created by combination of National Flood Maps and detailed modelling studies. The current version does not include the recent modelling carried out for the Pent Stream.
Detailed River Network	River Network including Ordinary Watercourse	The classification for Main River is not clear within the attributes of the GIS files.
Areas Susceptible to Surface Water Flooding (AStSWF)	Surface water flood maps give an indication of the areas likely to be at risk of surface water flooding.	Broadscale mapping, not suitable for identifying whether an individual property will flood as a result of surface water
Flood Maps for Surface Water (FMfSW)	The FMfSW shows predictions of flooded areas but does not show whether individual properties will be affected by surface water flooding or have been affected in the past.	1 in 200yr Deeper Surface Water Flooding (flooding greater than 0.3m deep) will be useful to aid identification of pathways and receptors within the SWMP.
Areas Susceptible to Ground Water Flooding (AStGWF)	Strategic scale map illustrating areas a risk of groundwater flooding.	Based on a 1km ² grid set, suitable for strategic high scale assessments, this should not be used for small scale individual assessments.
Groundwater vulnerability zones	EA define GWV are used to define where groundwater may be vulnerable from activities on the surface	Useful for determine the appropriate type of SUDS to use within a specific area
Groundwater Source protection zones	The EA have defined Source Protection Zones (SPZs). These zones show the risk of contamination from any activities that might cause pollution in the area.	The SPZ is a useful map to determine the type of SUDS that should be used within the study area.
Geology (Bedrock and superficial soils)	Details of Geology and Superficial deposits within Thameside	This is a useful GIS dataset to determine the type of SUDS should be used within Thameside.
National Receptors Database	The National Receptor Dataset (NRD) is a collection of receptors.	NRD contains a number of datasets arranged in the themes of Buildings, Transport, Utilities, Land Use, Agriculture,

Data Received	Details	Quality of Data
		Heritage, Environment and Miscellaneous. Each information theme contains a number of relevant data layers.
Kent County Council - gully and road information	GIS file of road and gullies within the Thameside Study Area	Comprehensive description of roads and gullies within the area
Highways provided details all of flooding emergency call outs for Thameside	Historic flooding data describing flooding affecting highways	This is useful within the SWMP to identify vulnerable infrastructure within the District's area.
Sewer networks (incl. Manholes)	GIS file with details of Sewer types and location of their manholes	Provides details and description of sewer type
Kent County Council Preliminary Flood Risk Assessment (PFRA)	The PFRA provides a high level overview and identify areas of significant flood risk that need to be investigated in further stages of the Regulations	Provides historic flood data, of particular note sewer/surface water flooding
Postcode Polygons	GIS files of the areas covering individual post code s	This will be used to display information in a location sensitive method.
Local Multi Agency Flood Plans	Emergency Plans for Dartford and Gravesham	Groundwater Emergence Maps and Critical Infrastructure, Surface water issues
Sewer Network	For Thameside	Useful to ascertain location of sewers and their type

Table A-3 Data provided by Southern Water

Data Received	Details	Quality of Data
Southern Water flooding incidents (postcode level)	GIS files describing at postcode level whether sewer flooding occurred	The dates events occurred were not clear.
Sewer model coverage	Details of sewer model coverage across Thameside	This data will be useful if further study is required within Thameside

Table A-4 Data provided by Thames Water

Data Received	Details	Quality of Data
DG5- sewer flooding history data for Dartford and Sevenoaks.	GIS files describing at postcode level whether sewer flooding occurred to a 4 number postcode level	The dates events occurred were not clear and a 4 number postcode provides too broad an area.

Table A-5 Data provided by Dartford Borough Council

Data Received	Details	Quality of Data
DBC - Core Strategy	Core Strategy	Provides information on DBC SUDS policy
Dartford Town Centre SFRA	SFRA for Dartford Town Centre	Provides information on DBC SUDS policy
Known points where properties have been built across the valley and are therefore susceptible to flooding	Contact Details	Useful for highlighting areas susceptible to flooding
Flooding in Kent New Year 2003 Report		Describes the fluvial flood on the River Darent in 2002/ 2003
Historic flooding information	Numerous information received from Ken Follett	Useful for highlighting areas susceptible to flooding, and draws on years of experience

Table A-6 Data provided by Gravesham Borough Council

Data Received	Details	Quality of Data
GBC - Core Strategy	Core Strategy	Provides information on GBC SUDS policy
Strategic Housing Land Availability Assessment GIS Layer		