

Preliminary flood risk assessment: Southend-on-Sea Borough Council

This addendum by Southend-on-Sea Borough Council (2017) updates the council's preliminary flood risk assessment report published in 2011. Read the addendum in conjunction with the [preliminary assessment report](#).

Addendum

The preliminary flood risk assessment (PFRA) and flood risk areas (FRAs) for Southend-on-Sea Borough Council were reviewed during 2017, using all relevant current flood risk data and information.

Changes to the assessment of risk since the preliminary assessment report was published in 2011 are described in the statements in this addendum.

The annexes to the preliminary assessment report have been reviewed and updated to show relevant new information since 2011.

Past flood risk

As a result of flooding since 2011, integrated hydraulic models are being developed to better understand how surface water and sewer flooding interact in the areas of greatest flood risk (significant flood risk).

Five Flood Investigation Reports (FIRs) have been completed since completion of the PFRA. Whilst flooding has occurred primarily in areas with a known flood history, the FIRs have improved understanding of the flood processes/mechanisms in a number of areas. FIRs have been completed for the following areas/events:

- 24th August 2013 - Borough wide including, Eastwood, Eastern Esplanade, Chalkwell Esplanade
- 11 October 2013 - Chalkwell Esplanade, Chalkwell Avenue, Clifton Drive, Western Esplanade, Victoria Avenue, Warners Bridge Roundabout, Rodbridge Drive, Thorpe Hall Avenue, Waking Road, Campfield Road, Ness Road, Shoebury Common Road
- January 2014 - Rebels Lane
- 20th July 2014 - Southend Hospital, Glenwood Avenue, Thorndon Park Drive, Park View Drive, Highland Boulevard, Prince Avenue, Rochford Road, Cavendish Gardens, Chalkwell, Manor Road, Queensway and Lifstan Way
- 19th September 2014 - Southend Sea Front, High Street, Highland Boulevard, Vardon Drive, Cricket Field Grove, Chalkwell, Western Esplanade, Northumberland Crescent, Fairfax Drive, Central Southend, Victoria Avenue and Symons Avenue

FIRs have also provided the opportunity to clarify and reinforce the roles and responsibilities of risk management authorities with regards to flood risk at these locations.

Future flood risk

The updated Risk of Flooding from Surface Water (RoFSW) mapping was published by the Environment Agency in 2013. This mapping provides the most comprehensive

understanding of surface water flood risk across the borough and will be used as the 'locally agreed surface water information' for the borough.

Guidance on climate change allowances was issued by the Environment Agency in 2016. With the inclusion of an allowance for climate change, an area greater than that shown in Environment Agency surface water flood mapping is likely to be considered at risk from surface water flooding.

The Environment Agency has suggested using the increase in numbers of people at risk between 1% and 0.1% AEP surface water flooding events as a proxy for the increase in people at risk in 1% surface events due to climate change. The hydraulic modelling completed for the central seafront area has indicated the areas at risk from surface water flooding due to increasing rainfall as a result of climate change.

Flood risk areas (FRAs)

The following FRA from the 2011 PFRA remains for the Flood Risk Regulations second planning cycle:

- South Essex

Other changes

None applicable.

**Southend-on-Sea Borough Council
December 2017**