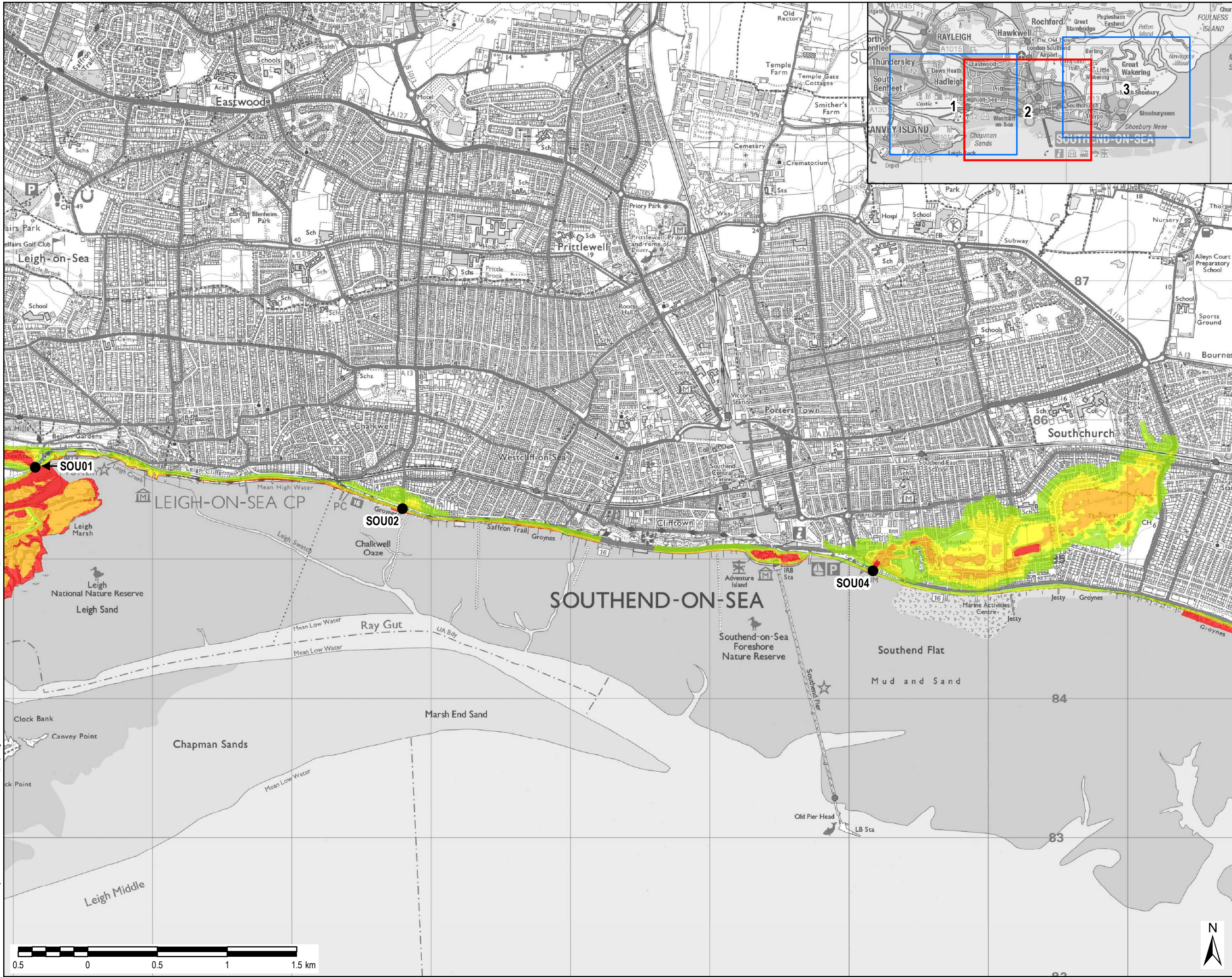


File Name: K:\5004 - Information Systems\60532482 - South Essex SFRA\02_Maps\Figure E45 Southend Breach Maximum Flood Hazard - 2016 0.5 AEP_DDP.mxd



THIS DRAWING IS TO BE USED ONLY FOR THE PURPOSE OF ISSUE THAT IT WAS ISSUED FOR AND IS SUBJECT TO AMENDMENT

- LEGEND**
- Breach Location
 - Maximum Flood Hazard**
 - Low Hazard
 - Moderate Hazard (Danger to Some)
 - Significant Hazard (Danger to Most)
 - Extreme Hazard (Danger to All)

NOTES

Hydraulic modelling has been undertaken using 2-D hydraulic modelling software MIKE21-HDFM (ver.2011), to assess the effect of a breach at a specific point in the defences. The model simulates 3 tidal cycles with the peak level occurring on the second peak and two slightly smaller peaks either side. Breaches in the defence walls are modelled to occur in advance of the peak tide level to assess the maximum potential volume of inflow into the flood cell. Flood hazard is calculated as a function of flood depth and flow velocity at a particular point in the floodplain, along with a suitable debris factor and is based on the methodology from Flood Risk to People FD2320 (Defra & EA, 2005). These hazard classifications do not indicate a change in the flood probability. When using flood hazard maps it should be noted that they represent the hazard arising from one or more specified breach locations, and that the rating will almost certainly vary spatially if the breach locations are in different local areas. It should be noted that the breach width and depth, though based on EA guidance, are arbitrary and do not necessarily represent the actual dimensions of a potential breach at a given location. A thorough description of methodology and assumptions is included within the SFRA Main Report.

Copyright
© Ordnance Survey Crown copyright and database rights, 2017. Ordnance Survey 0100031673.
Contains Environment Agency information
© Environment Agency and/or database rights 2017.

Purpose of Issue
FINAL

Client
Basildon Council
BASILDON - BILLERICAY - WICKFORD
castlepoint
Rochford District Council
southend on sea
BOROUGH COUNCIL

Project Title
**SOUTH ESSEX
LEVEL 1 SFRA**

Drawing Title
**SOUTHEND BREACH
MAXIMUM FLOOD HAZARD
2016, 0.5% AEP**

Drawn JW	Checked BB	Approved CP	Date 09/04/2018
AECOM Internal Project No. 60532482		Scale @ A3 1:25,000	

THIS DOCUMENT HAS BEEN PREPARED PURSUANT TO AND SUBJECT TO THE TERMS OF AECOM'S APPOINTMENT BY ITS CLIENT. AECOM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS ORIGINAL CLIENT OR FOLLOWING AECOM'S EXPRESS AGREEMENT TO SUCH USE, AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED.

AECOM
South House
Alencon Link, Basingstoke
Hampshire, RG21 7PP
Telephone (01256) 310200
Fax (01256) 310201
www.aecom.com

AECOM

Drawing Number FIGURE E45b	Rev 1
--------------------------------------	-----------------