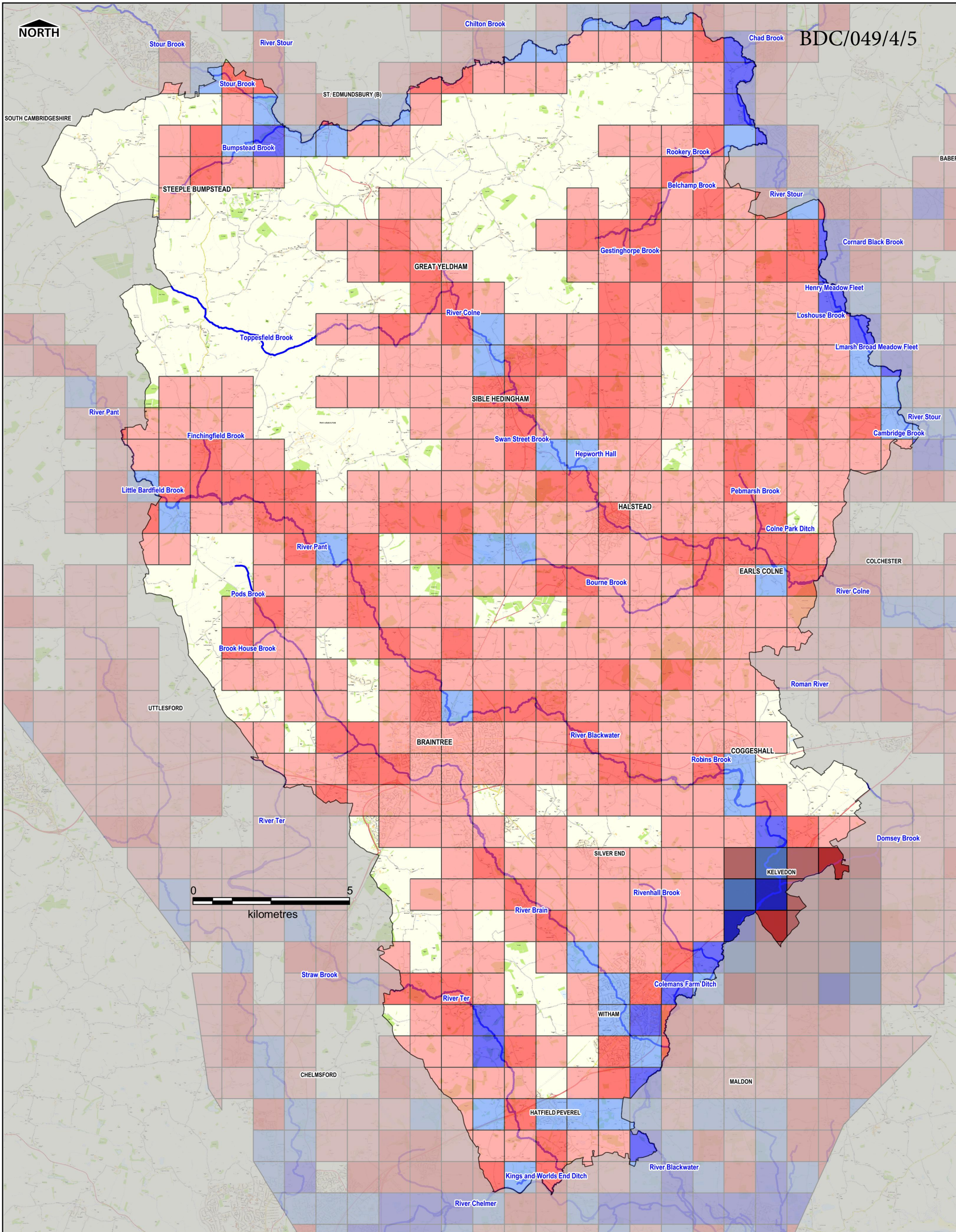


NORTH

BDC/049/4/5



LEGEND

	Administrative Boundaries		Probability of Flooding from Ground Water
	Main River		>= 75%
	Ordinary Watercourse		>= 50% < 75%
			>= 25% < 50%
			< 25%

NOTES

Areas Susceptible to Groundwater Flooding (ASIGWF) is a strategic scale map showing groundwater flood areas on a 1km square grid. It was developed specifically by the Environmental Agency for use by Lead Local Flood Authorities (LLFAs) for use in Preliminary Flood Risk Assessment (PFRA) as required under the Flood Risk Regulations. The map was produced to annotate indicative Flood Risk Areas for PFRA with information to allow LLFAs to determine whether there may be a risk of flooding from groundwater.

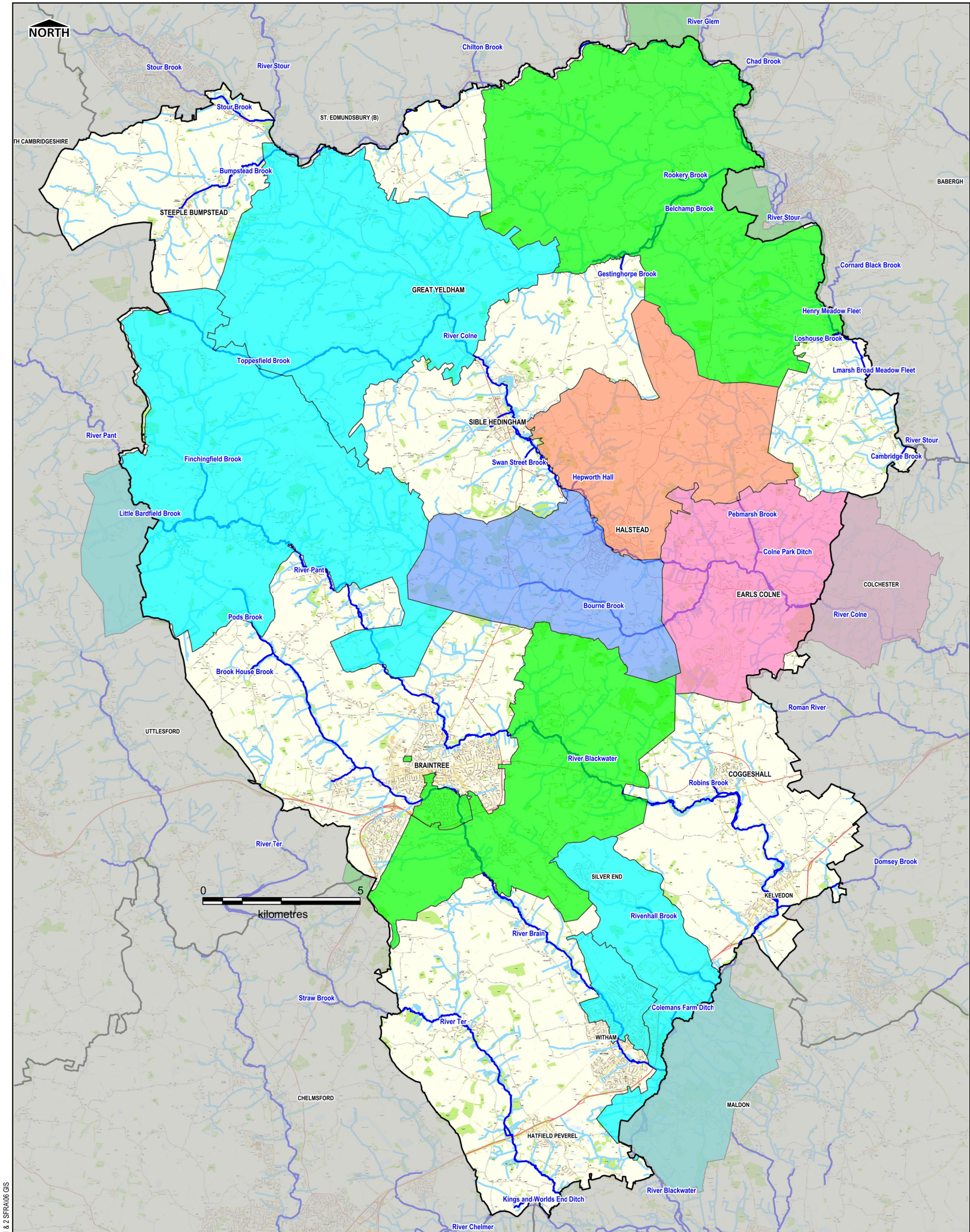
The data has used the top two susceptibility bands of the British Geological Society (BGS) 1:50,000 Groundwater Flood Susceptibility Map and thus covers consolidated aquifers (chalk, sandstone etc., termed 'cleanwater' in the data attributes) and superficial deposits. It does not take account of the chance of flooding from groundwater rebound. It shows the proportion of each 1km grid square where geological and hydrogeological conditions show that groundwater might emerge. The susceptible areas are represented by one of four area categories (listed above) showing the proportion of each 1km square that is susceptible to groundwater emergence. It does not show the likelihood of groundwater flooding occurring.

In common with the majority of datasets showing areas which may experience groundwater emergence, this dataset covers a large area of land, and only isolated locations within the overall susceptible area are actually likely to suffer the consequences of groundwater flooding.

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Project Title		Braintree District Council Strategic Flood Risk Assessment Update	
Drawing Title		AREAS SUSCEPTIBLE TO GROUNDWATER FLOODING	
Drawn	SB	Version	2
Checked	JB	Date	November 2016
Approved	JR	Scale at A3	1:110,000

Client			
AECOM Infrastructure & Environment UK Ltd			
Mid Point Alencon Link Basingstoke, RG21 7PP T +44 (0)1256 310 200 www.aecom.com		Drawing Number	
FIGURE 4		Rev	
		02	



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LEGEND	
Administrative Boundaries	External Sewer Flood Incidents 1
Main River	External Sewer Flood Incidents 2
Ordinary Watercourse	External Sewer Flood Incidents 3
	External Sewer Flood Incidents 5
	External Sewer Flood Incidents 6
Purpose	FINAL

NOTES
 Anglian Water Services has provided an extract from their DG5 Flood Register for the study area. Due to data protection requirements the data has not been provided at individual property level; rather the register comprises the number of properties within 4 digit postcode areas that have experienced flooding either internally or externally within the last 10 years.

It should be noted that records only appear on the DG5 register where they have been reported to AWS, and as such they may not include all instances of sewer flooding.

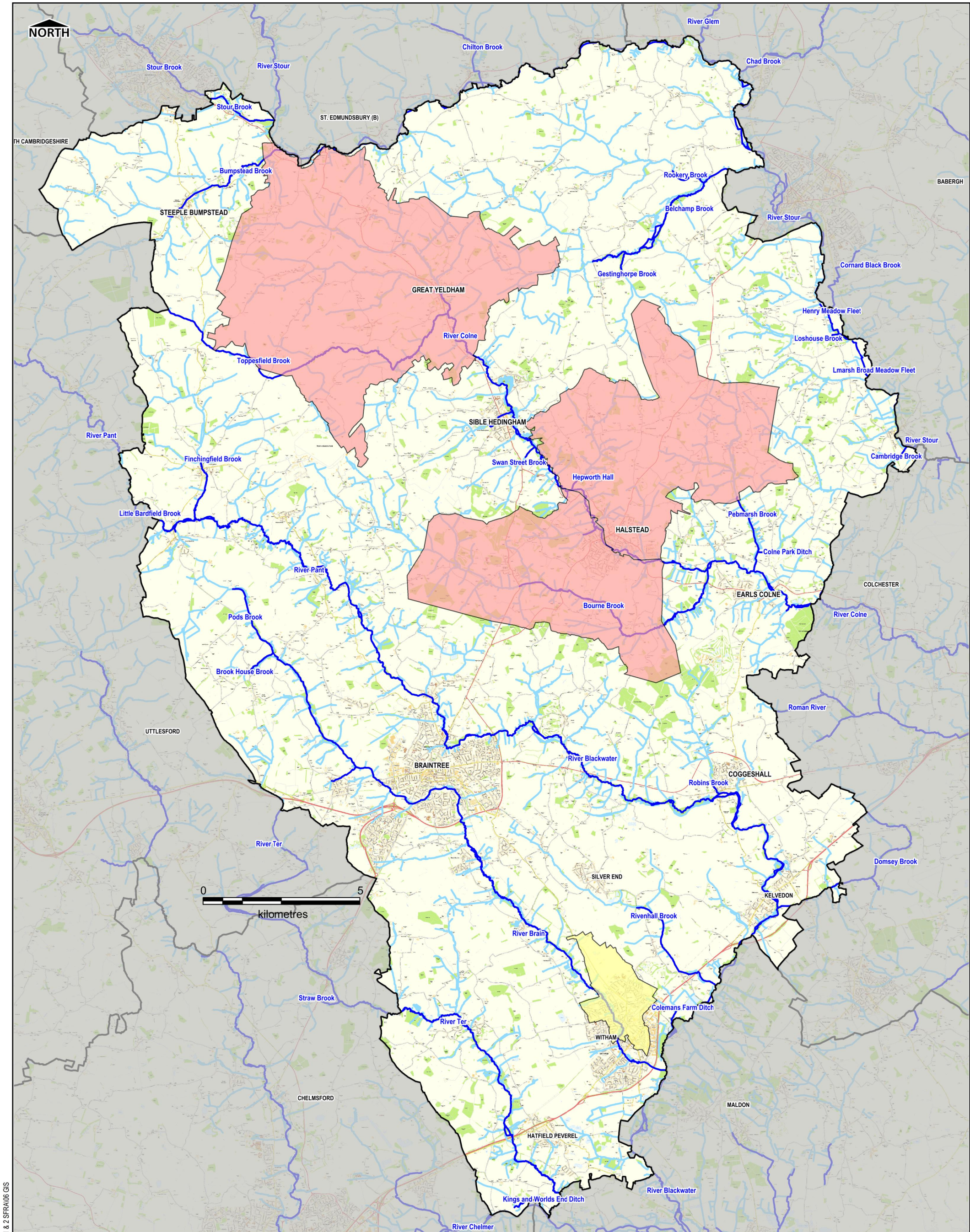
Furthermore given that AWS target these areas for maintenance and improvements, areas that experienced flooding in the past may not longer be at greatest risk of flooding in the future.

This map is intended to provide a strategic overview of sewer flood risk and should not be used to assess flood risk individual properties.

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Project Title		Braintree District Council Strategic Flood Risk Assessment Update	
Drawing Title		External Sewer Flood Incidents	
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Drawn	SB	Version	2
Checked	JB	Date	November 2016
Approved	JR	Scale at A3	1:110,000

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Drawing Number		Rev	
FIGURE 5.1		02	



LEGEND

Administrative Boundaries	Internal Sewer Flood Incidents
Main River	1 (3)
Ordinary Watercourse	2 (1)

NOTES

Anglian Water Services has provided an extract from their DG5 Flood Register for the study area. Due to data protection requirements the data has not been provided at individual property level; rather the register comprises the number of properties within 4 digit postcode areas that have experienced flooding either internally or externally within the last 10 years.

It should be noted that records only appear on the DG5 register where they have been reported to AWS, and as such they may not include all instances of sewer flooding.

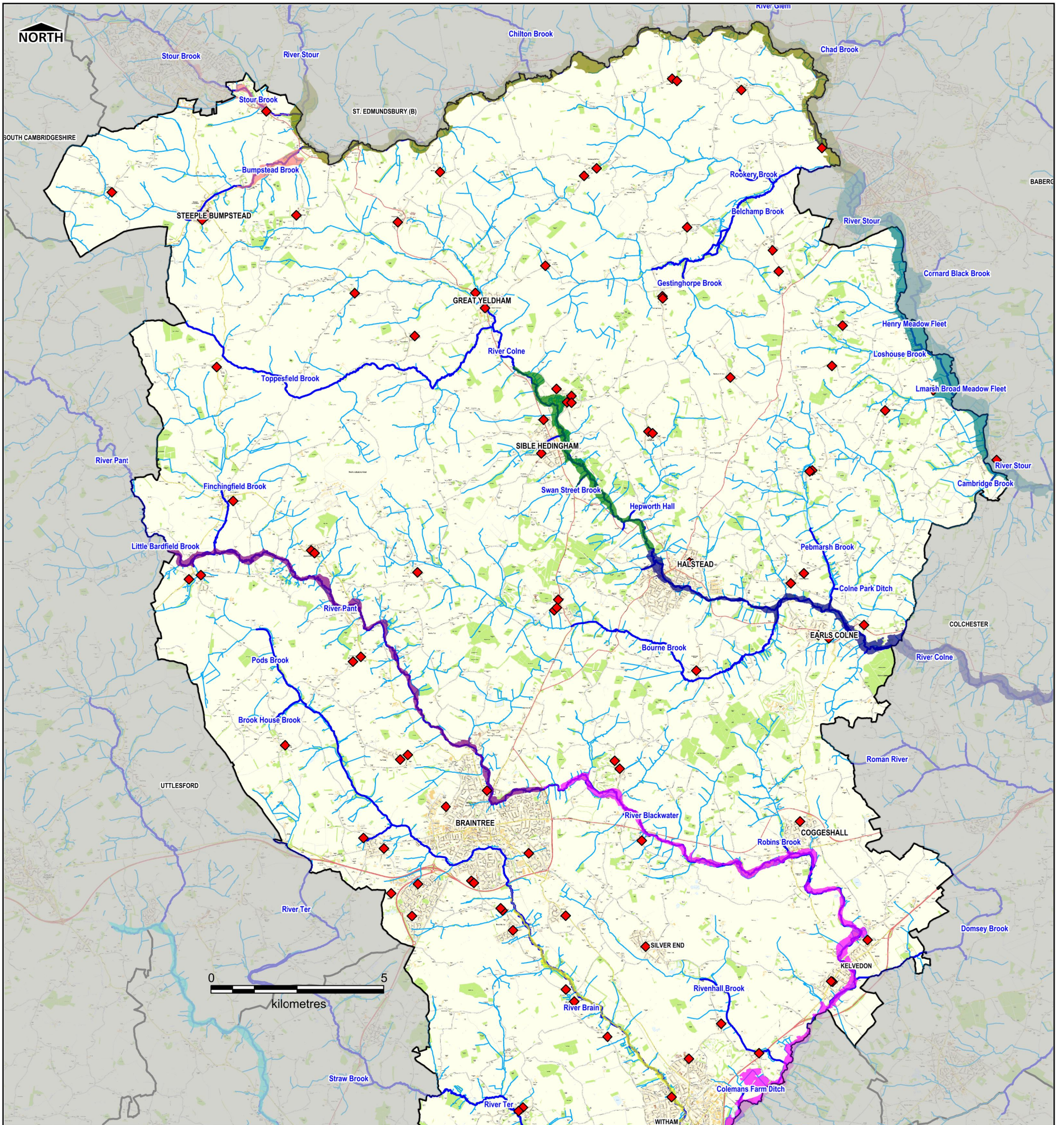
Furthermore given that AWS target these areas for maintenance and improvements, areas that experienced flooding in the past may not longer be at greatest risk of flooding in the future.

This map is intended to provide a strategic overview of sewer flood risk and should not be used to assess flood risk individual properties.

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Drawing Title		Internal Sewer Flood Incidents	
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	Drawing Number FIGURE 5.2
Rev 02	



LEGEND

	Administrative Region		BDC Emergency Rest Centres
	Main River		
	Ordinary Watercourse		
Flood Warning Areas			
	Blackwater North Bank	(1)	
	Blackwater South Bank from Maldon to Maylandsea	(1)	
	Maldon Town waterfront and the Hythe	(1)	
	River Blackwater from Braintree to Langford, including Coggeshall and Kelvedon	(1)	
	River Brain from Black Notley to Witham, inclusive	(1)	
	River Chelmer from Great Dunmow to Rivermead campus and Industrial Estate in Che	(4)	
	River Chelmer from the A138 at Chelmsford to Maldon	(1)	
	River Colne from Castle Hedingham to upstream of Halstead	(1)	
	River Colne from Halstead to Lexden	(1)	
	River Pant, from Great Bardfield to Braintree, inclusive	(1)	
	River Stour from downstream of Kedington to Sudbury	(1)	
	River Stour from Sudbury to Boxted, inclusive	(3)	
	Stour Brook at Haverhill & Sturmer and the Bumpstead Brook from Steeple Bumpstead	(2)	

NOTES

The Environment Agency provide a free flood warning service for many areas at risk of flooding from rivers and the sea. In some parts of England the Environment Agency may be able to provide warnings when flood from groundwater is possible. The Environment Agency free flood warning service can provide advance notice of flooding and can provide time to prepare.

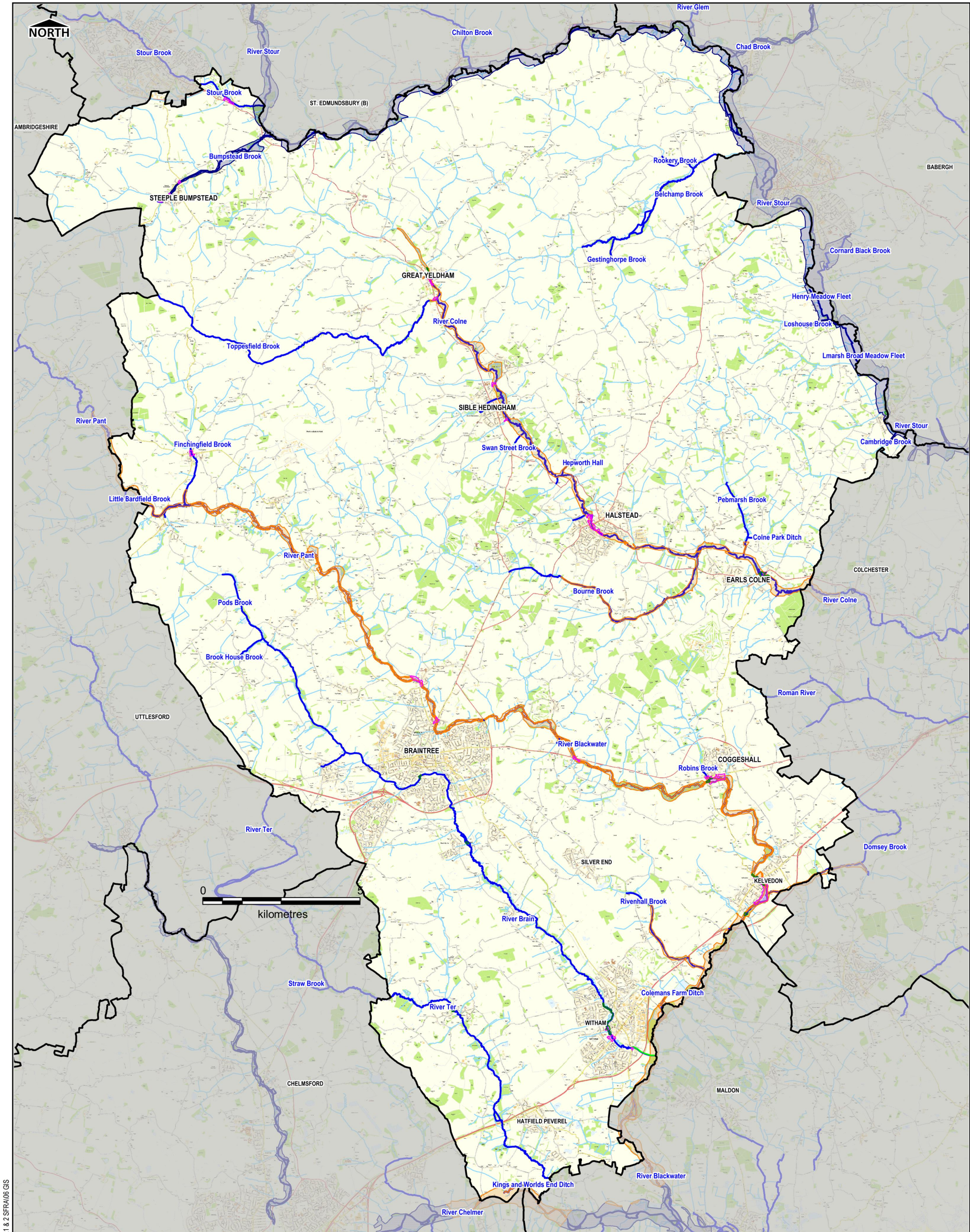
The Environment Agency issue flood warnings to homes and businesses when flooding is expected. Upon receipt of a flood warning, occupants should take immediate action.

The Environment Agency issue flood alerts when flooding is possible. Flood alerts cover larger areas than flood warnings and are issued more frequently. Upon receipt of a flood warning, occupants should be prepared for flooding and to take action.

If a flood alert for groundwater is available this does not mean that your property is definitely at risk. It is very difficult to predict the exact location of flooding from groundwater as it is often related to local geology. To help people, the Environment Agency provide flood alerts for large areas that could be affected if groundwater levels were high.

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Project Title Braintree District Council Strategic Flood Risk Assessment Update		Client
Drawing Title Flood Warning Areas and Emergency Rest Centres		AECOM Infrastructure & Environment UK Ltd Midpoint Alencon Link Eastgate, Haverhill, R102 7JP, UK T +44 (0)1256-310-200
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Drawn SB Checked JB Approved JR	Version 2 Date November 2016 Scale at A3 1:110,000	Drawing Number FIGURE 6 Rev 02



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LEGEND	
	Administrative Boundaries
	Main River
	Ordinary Watercourse
Historic Flood Outlines	
	Historic Flood Record
	1947 Flood Outline
	1970 Flood Outline
	2001 Flood Outline
	2009 Flood Outline

NOTES
 Main Rivers are designated by Defra on a 'Main River Map'. The Environment Agency has permissive powers to carry out flood defence works, maintenance and operational activities for Main Rivers only. However overall responsibility for maintenance lies with the riparian owner.

An Ordinary Watercourse is a watercourse that does not form part of a Main River. This includes all rivers and streams and all ditches, drains, cuts, culverts, dikes, sluices (other than public sewers within the meaning of the Water Industry Act 1991) and passages, through which water flows according to the Land Drainage Act 1991.

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Purpose: **FINAL**

Project Title Braintree District Council Strategic Flood Risk Assessment Update	
Drawing Title Environment Agency Historic Flood Outlines	
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Drawn: SB	Version: 2
Checked: JB	Date: November 2016
Approved: JR	Scale at A3: 1:110,000

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Drawing Number FIGURE 7	Rev 02