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LEGEND

- Administrative Boundaries
- Main River
- Ordinary Watercourse
- Historic Records of Fluvial Flooding
- Flood Defences
- Flood Storage Areas
- Areas Benefiting from Flood Defences

Probability of Flooding from Rivers and the Sea

- Flood Zone 1 Low Probability
- Flood Zone 2 Medium Probability
- Flood Zone 3a High Probability
- Flood Zone 3b Functional Floodplain
- Flood Zone 3a plus climate change

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. The Environment Agency Flood Map for Planning (Rivers and Sea) is available on the Environment Agency website (www.gov.uk/environment-agency) and displays the risk of flooding based on probability. Flood Zone 1: Land assessed, ignoring the presence of flood defences, as having a less than 0.1% annual probability of fluvial or tidal flooding in any year. Flood Zone 2: Land assessed, ignoring the presence of flood defences, as having between a 1% and 0.1% annual probability of fluvial flooding in any year. Flood Zone 3: Land assessed, ignoring the presence of flood defences, as having a 1% or greater annual probability of fluvial flooding in any year.

The Flood Map displays the location of linear raised flood defences such as embankments and walls. Flood storage areas, land designated and operated to store flood water are displayed in a separate polygon layer. Land that may benefit from the presence of flood defences during a 1% fluvial or 0.5% tidal flood event. These are areas that would flood if the defence were not present, but may not flood because the defence is present. Areas benefiting from flood storage areas may be remote from the flood defence structure.

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

In February 2016, the Environment Agency published revised guidance on climate change allowances. In the absence of model outputs for the updated climate change allowances, this Level 1 SFRA has adopted a conservative approach to assessing climate change for the purpose of the Sequential Test by using the existing Flood Zone 2 extent (1 in 1000 annual probability of river flooding) as a proxy for the Flood Zone 3a plus climate change. This represents the 'higher central' allowance. Developers should note that for all subsequent site specific FRAs, confirmation is required from the Environment Agency on the appropriate climate change assessment approach for each site.

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Revision Details		Suffix
Purpose of Issue		FINAL

Client
 Braintree District Council

Project Title
 Braintree Level 1 Strategic Flood Risk Assessment

Drawing Title
 Flood Zone Maps

Drawn SB	Checked JB	Approved JR	Date Nov 2016
AECOM Internal Project No. 60478467		Scale at A3 1:40,000	

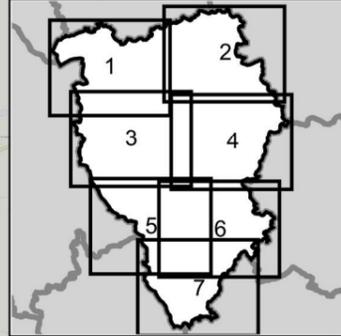
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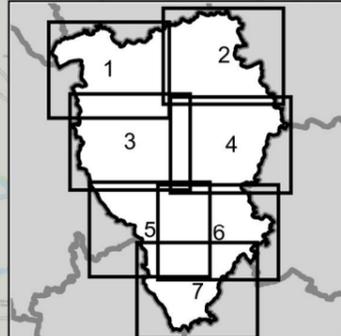
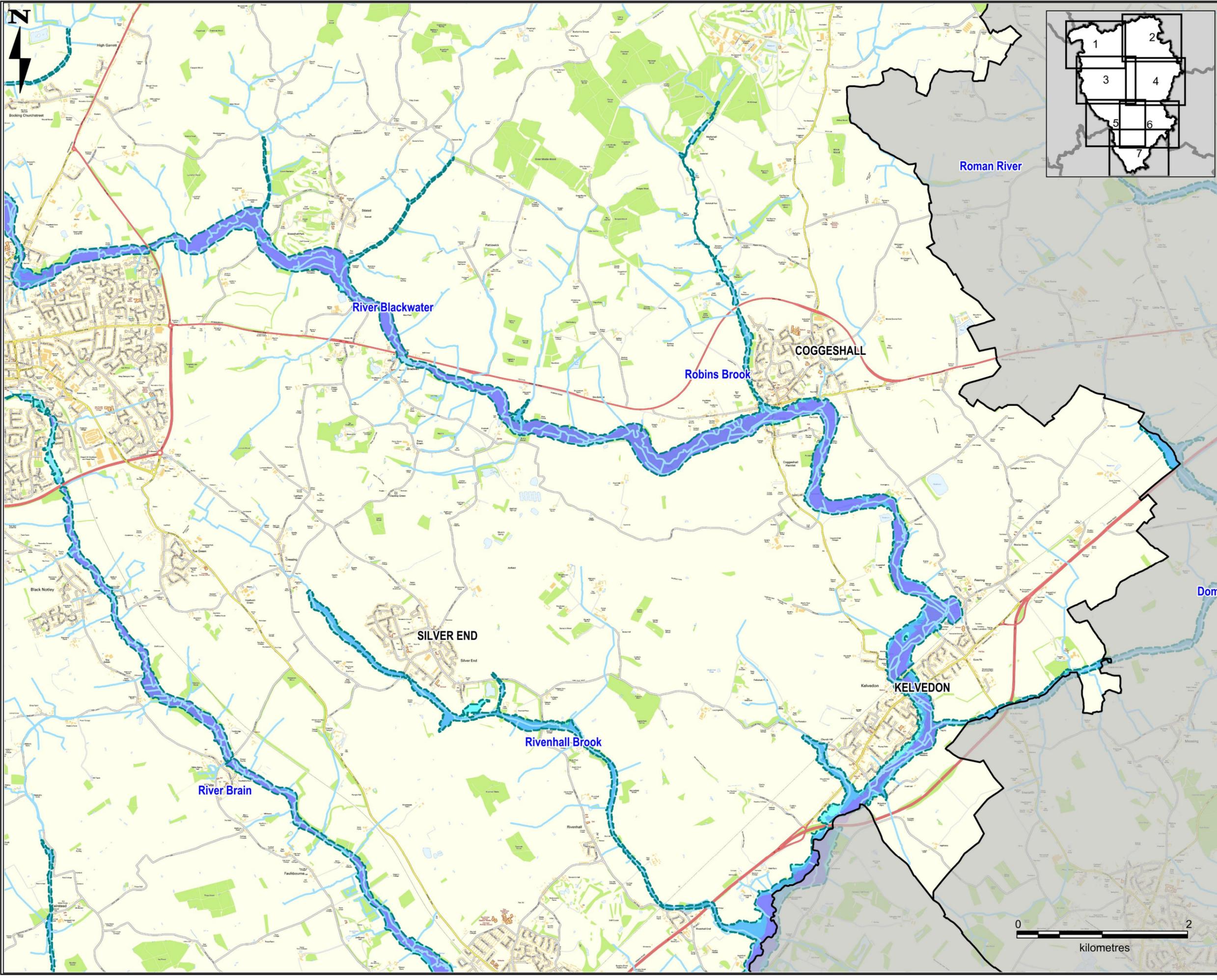


Drawing Number FIGURE 2.5	Rev 03
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BDC/049/3/5



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Revision Details		Suffix
Purpose of Issue	FINAL	
Client		
Project Title	Braintree Level 1 Strategic Flood Risk Assessment	
Drawing Title	Flood Zone Maps	
Drawn	Checked	Approved
SB	JB	JR
AECOM Internal Project No. 60478467		Date Nov 2016
		Scale at A3 1:40,000

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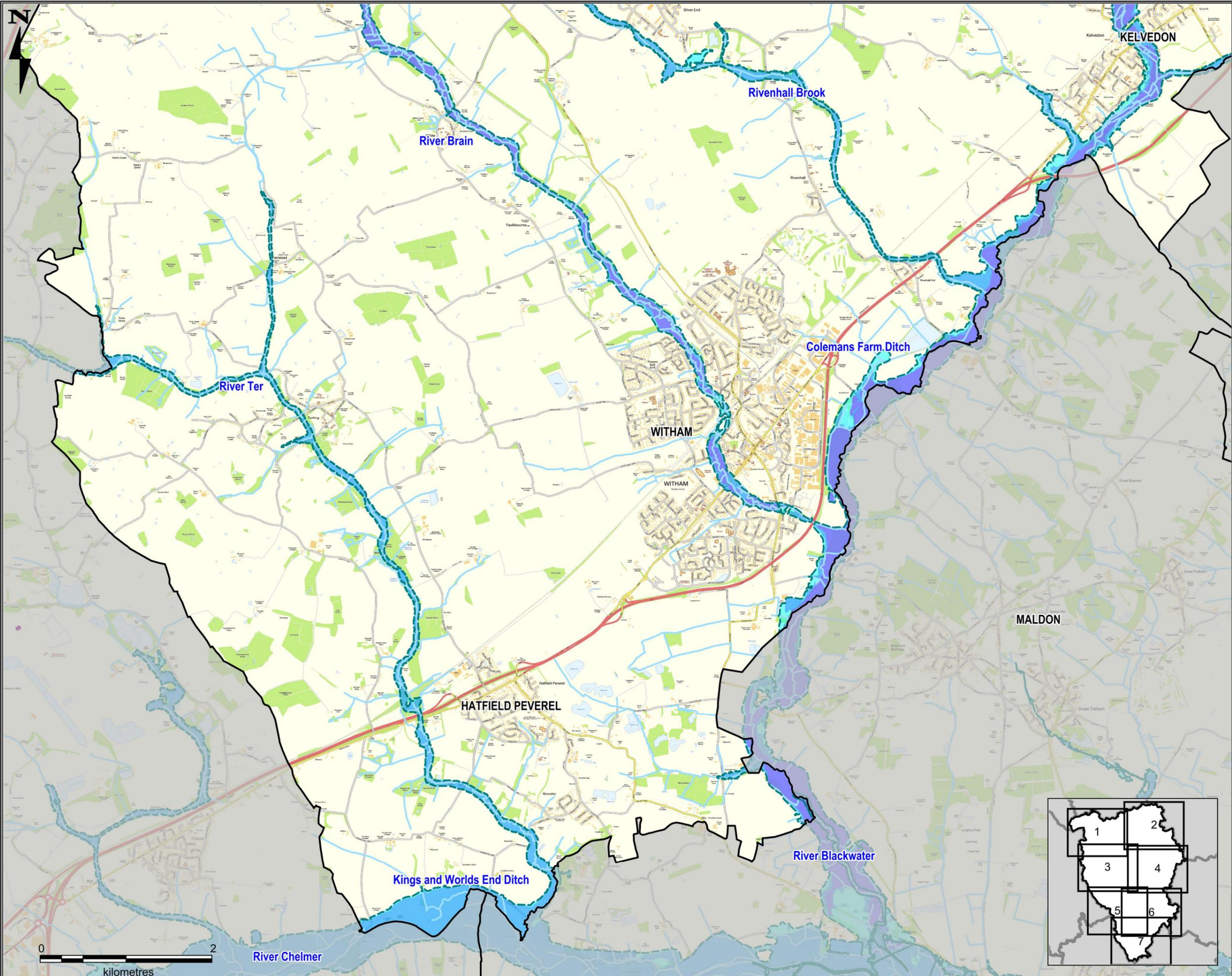
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Drawing Number: **FIGURE 2.6**

Rev: **03**

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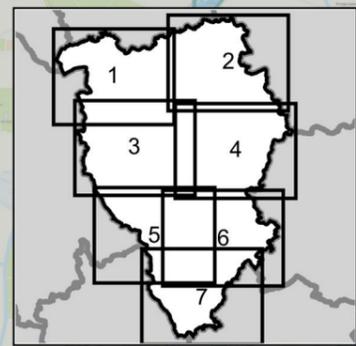
Revision Details		Suffix
Purpose of Issue		FINAL
Client		
Project Title		Braintree Level 1 Strategic Flood Risk Assessment
Drawing Title		Flood Zone Maps
Drawn	Checked	Approved
SB	JB	JR
Date		Nov 2016
AECOM Internal Project No.		Scale at A3
60478467		1:40,000

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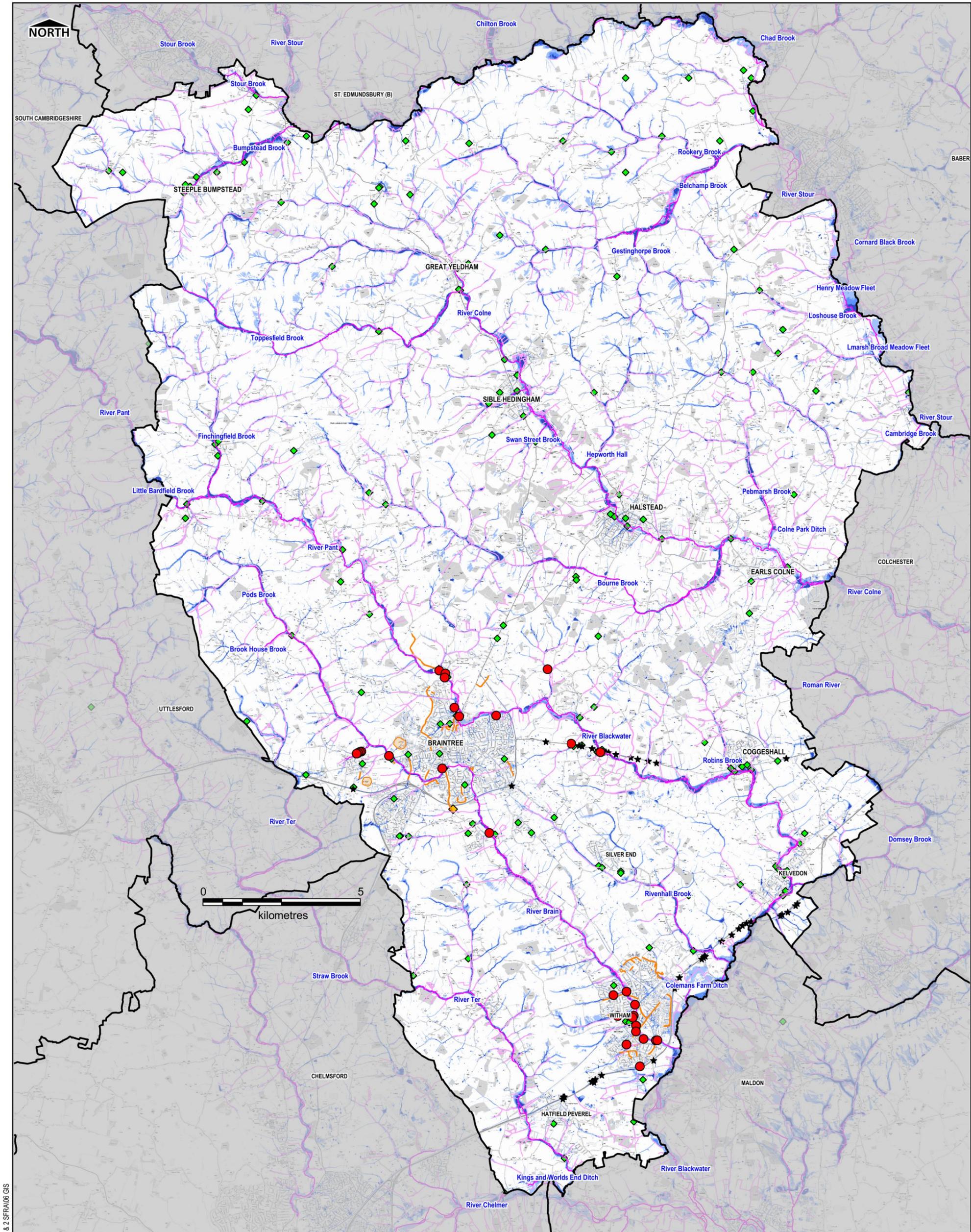
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Drawing Number	Rev
FIGURE 2.7	03



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LEGEND	
	Administrative Boundaries
	Main River
	Ordinary Watercourse
	BDC Flood Summaries
	ECC Flood Incident Records
	Highways England Flood Records
	Known Flood Hotspots (EA & ECC)
Probability of Flooding from Surface Water	
	High (>3.3% AEP)
	Medium (1% - 3.3% AEP)
	Low (0.1% - 1% AEP)
	Very Low (<0.1% AEP)

NOTES
 This map shows the predicted likelihood of surface water flooding based on the Environment Agency's Risk of Flooding from Surface Water (RoFSW) data, which may be subject to further analysis in the future. Further information is provided on the Environment Agency website (www.gov.uk/environment-agency).

The Risk from Surface Water Flooding is divided into categories: High: each year, the chance of flooding is greater than 1 in 100 (1%) and 1 in 30 (3.3%); Medium: each year, the chance of flooding is greater than 1 in 1000 (0.1%) and 1 in 100 (1%); Very Low: each year, the chance of flooding is less than 1 in 1000 (0.1%). The potential impact of surface water flooding can vary according to the depth of the water, and its velocity, speed and direction that it is flowing in.

Surface water flooding happens when rainwater does not drain away through the normal drainage systems or soak into the ground, but lies on or flows over the ground instead. This type of flooding can be difficult to predict as it is hard to forecast exactly where or how much rain will fall in any storm. This map is intended to provide a strategic overview of surface water flood risk and should not be used to assess flood risk for individual properties.

Braintree District Council provided flood risk summaries for the towns and villages of Braintree as assessed by the local community, which is identified by the "BDC Flood Summaries".

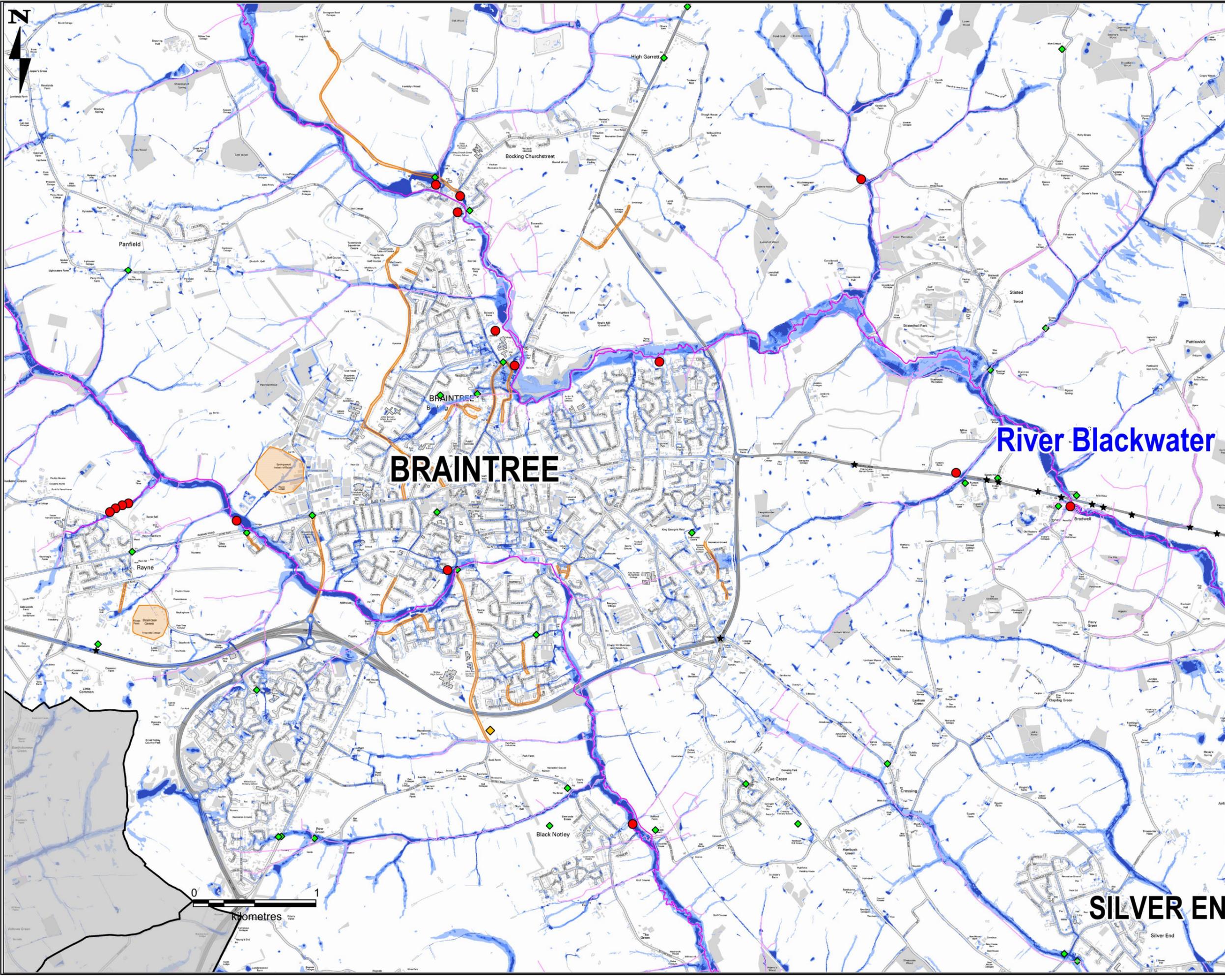
Essex County Council have provided information on surface water flooding from the 18th June 2015 throughout Braintree and Witham.

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Project Title		Braintree District Council Strategic Flood Risk Assessment Update	
Drawing Title		Risk of Flooding from Surface Water	
Drawn	SB	Version	2
Checked	JB	Date	November 2016
Approved	JR	Scale at A3	1:110,000

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Drawing Number		FIGURE 3	
Rev		02	





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- BDC Flood Summaries
- ECC Flood Incident Records
- Highways England Flood Records
- Known Flood Hotspots (EA & ECC)

Probability of Flooding from Surface Water

- High (>3.3% AEP)
- Medium (1% - 3.3% AEP)
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- Very Low (<0.1% AEP)

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Revision Details		Suffix	

Purpose of Issue: **FINAL**

Client: **Braintree District Council**

Project Title: **Braintree Level 1 Strategic Flood Risk Assessment**

Drawing Title: **Risk of Flooding from Surface Water**

Drawn: SB	Checked: JB	Approved: JR	Date: Nov 2016
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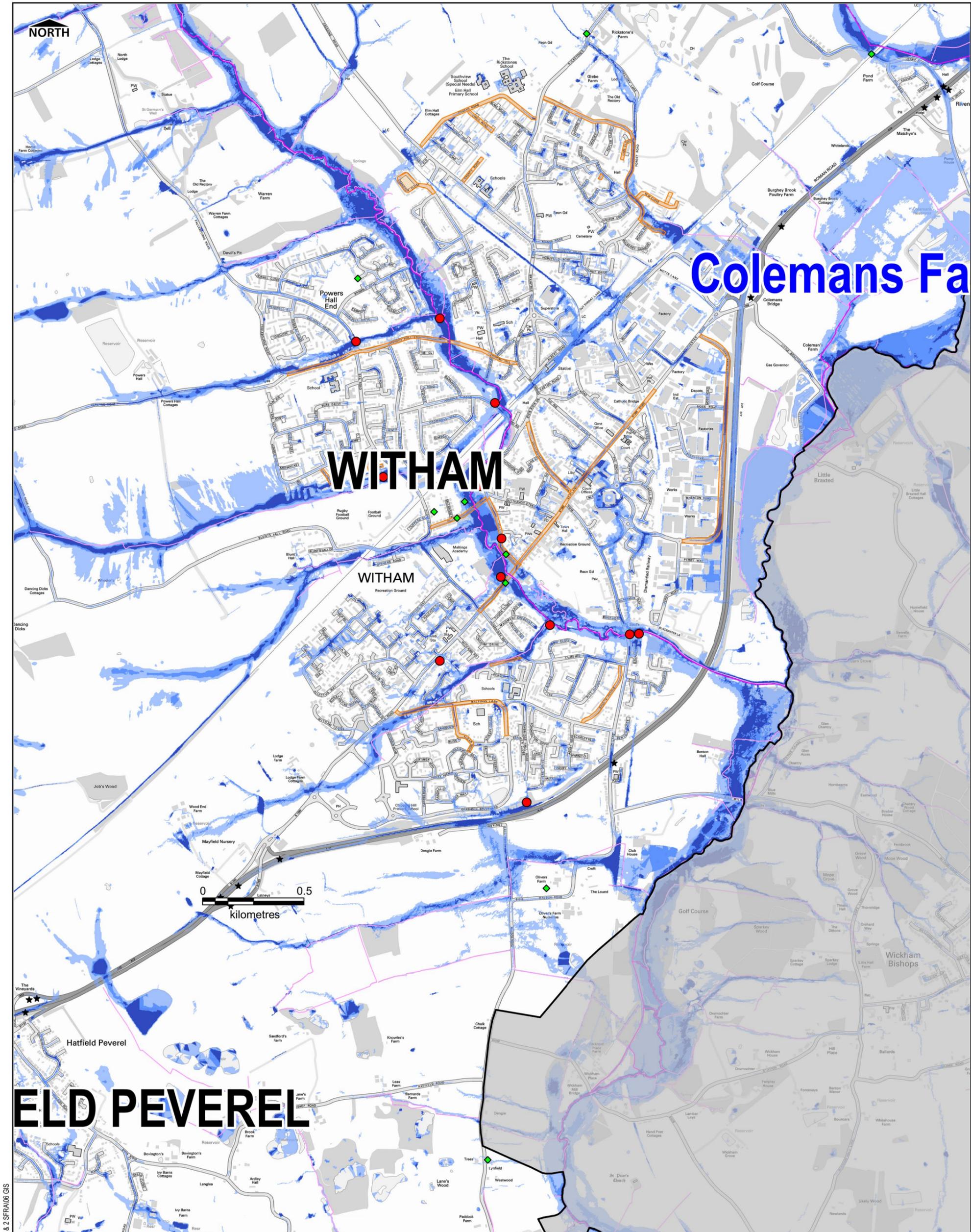
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Drawing Number: FIGURE 3.1	Rev: 03
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LEGEND	
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	Ordinary Watercourse
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Project Title Braintree District Council Strategic Flood Risk Assessment Update	
Drawing Title Risk of Flooding from Surface Water	
Drawn SB	Version 2
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Approved JR	Scale at A3 1:17,000

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Drawing Number FIGURE 3.2	Rev 02

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