



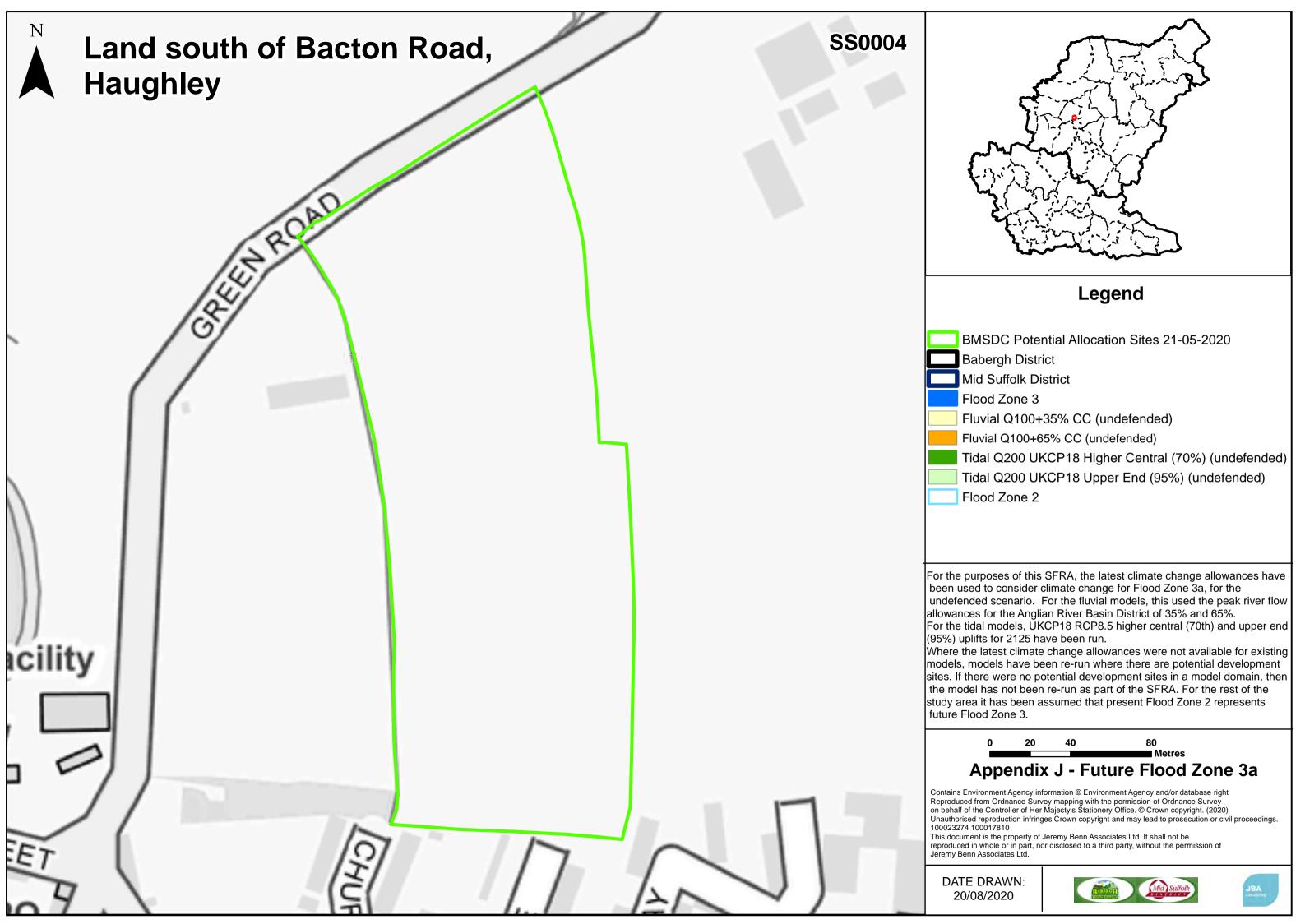
1 Appendix I - Models used in the SFRA

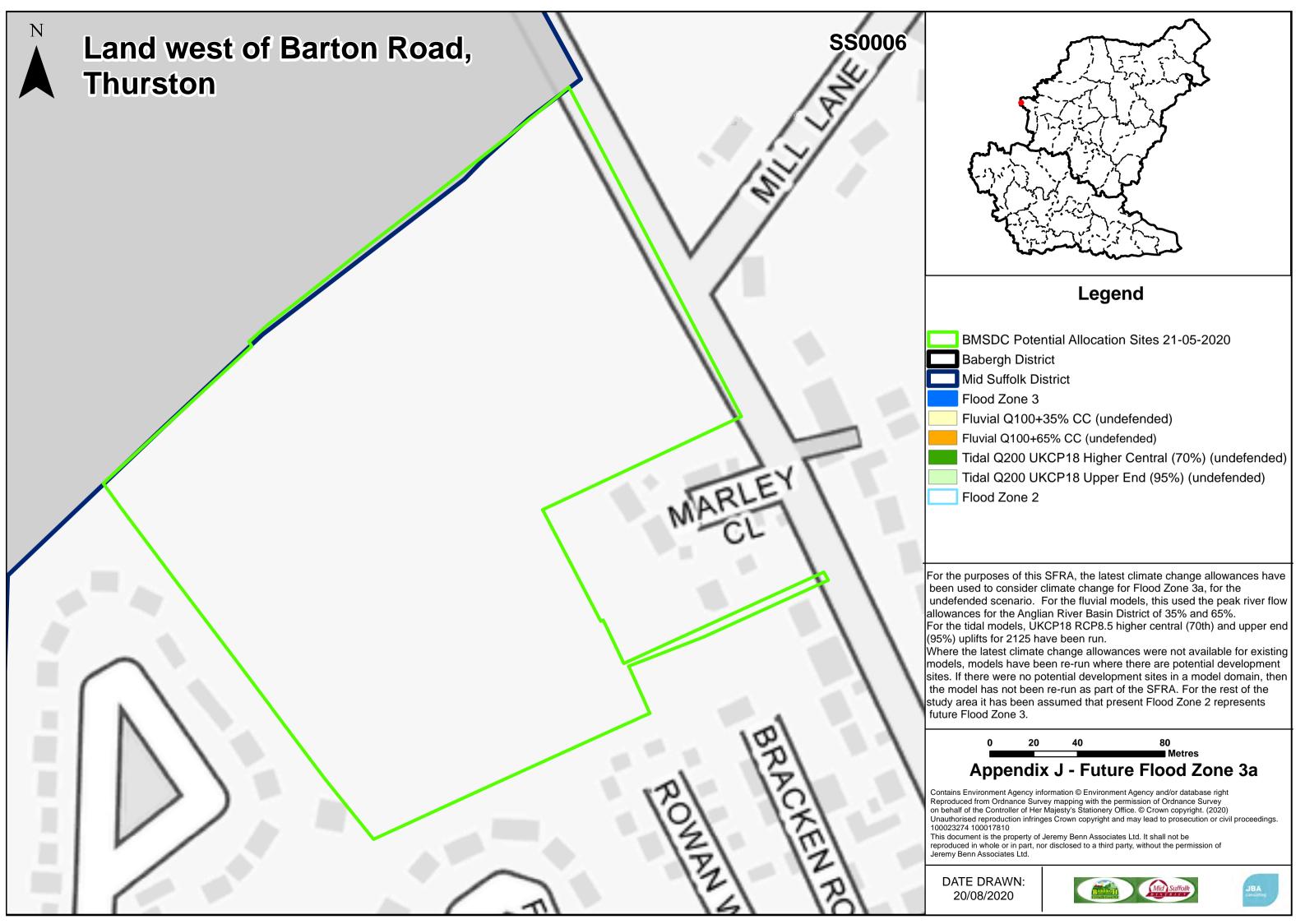
Existing Models were provided by the Environment Agency for the purposes of this SFRA. Models have been re-run with the latest climate change allowances where these were not available and there were proposed development sites within the model domain. If there were no potential development sites in a model domain, then the model has not been re-run as part of the SFRA.

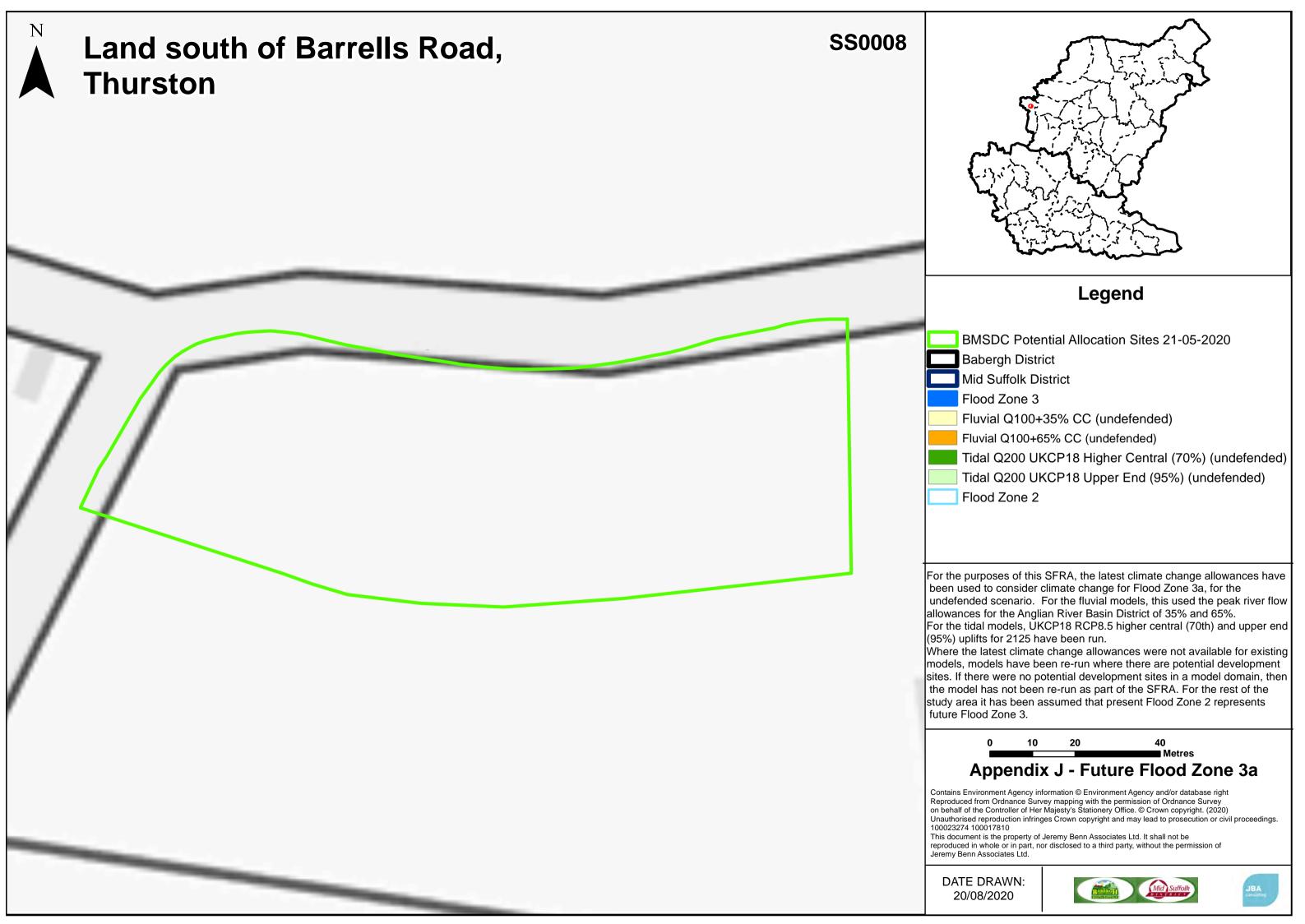
Watercourse	Model details	Model used to map Flood Zone 3b?	Flood Zone 3b with climate change?	Flood Zone 3 (undefended) with climate change?
River Gipping	River Gipping FRS (JBA Consulting 2012)	Yes (1 in 20-year)	35% and 65% climate change scenarios run as part of SFRA	35% and 65% climate change scenarios run as part of SFRA
River Deben	Debenham 2017 (CH2M 2015)	Yes (1 in 20-year)	35% and 65% climate change scenarios run as part of SFRA	35% and 65% climate change scenarios
River Deben	River Deben Model Review (CH2M 2015)	Yes (1 in 20-year)	-	35% and 65% climate change scenarios
River Blyth	Laxfield Hydraulic Modelling (JBA Consulting 2012)	Yes (1 in 25-year)	-	-
River Waveney	Update of Waveney FRS - Eye/Upper model (JBA Consulting 2013)	Yes (1 in 20-year)	35% and 65% climate change scenarios run as part of SFRA	35% and 65% climate change scenarios run as part of SFRA
Chickering Beck	Chickering Beck Restoration 2015 (JBA Consulting 2015)	Yes (1 in 20-year)	-	-
Holbrook Stream	ENS Survey & Model Build 2015 - Holbrook Stream (JBA Consulting 2015)	Yes (1 in 20-year)	-	-
Belstead Brook	ENS Survey & Model Build 2015 - Belstead Brook (JBA Consulting 2015)	Yes (1 in 20-year)	35% and 65% climate change scenarios run as part of SFRA	35% and 65% climate change scenarios run as part of SFRA

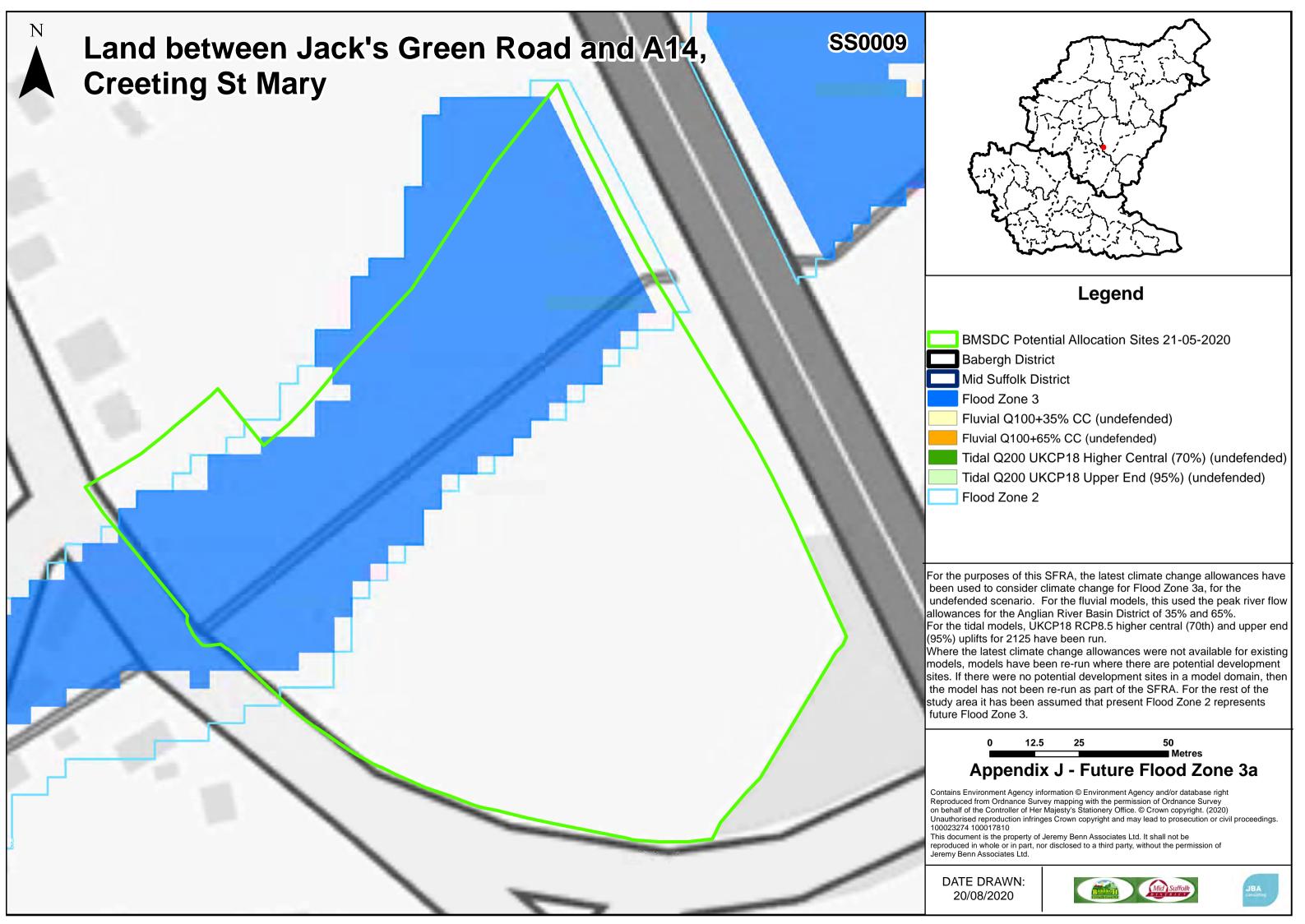


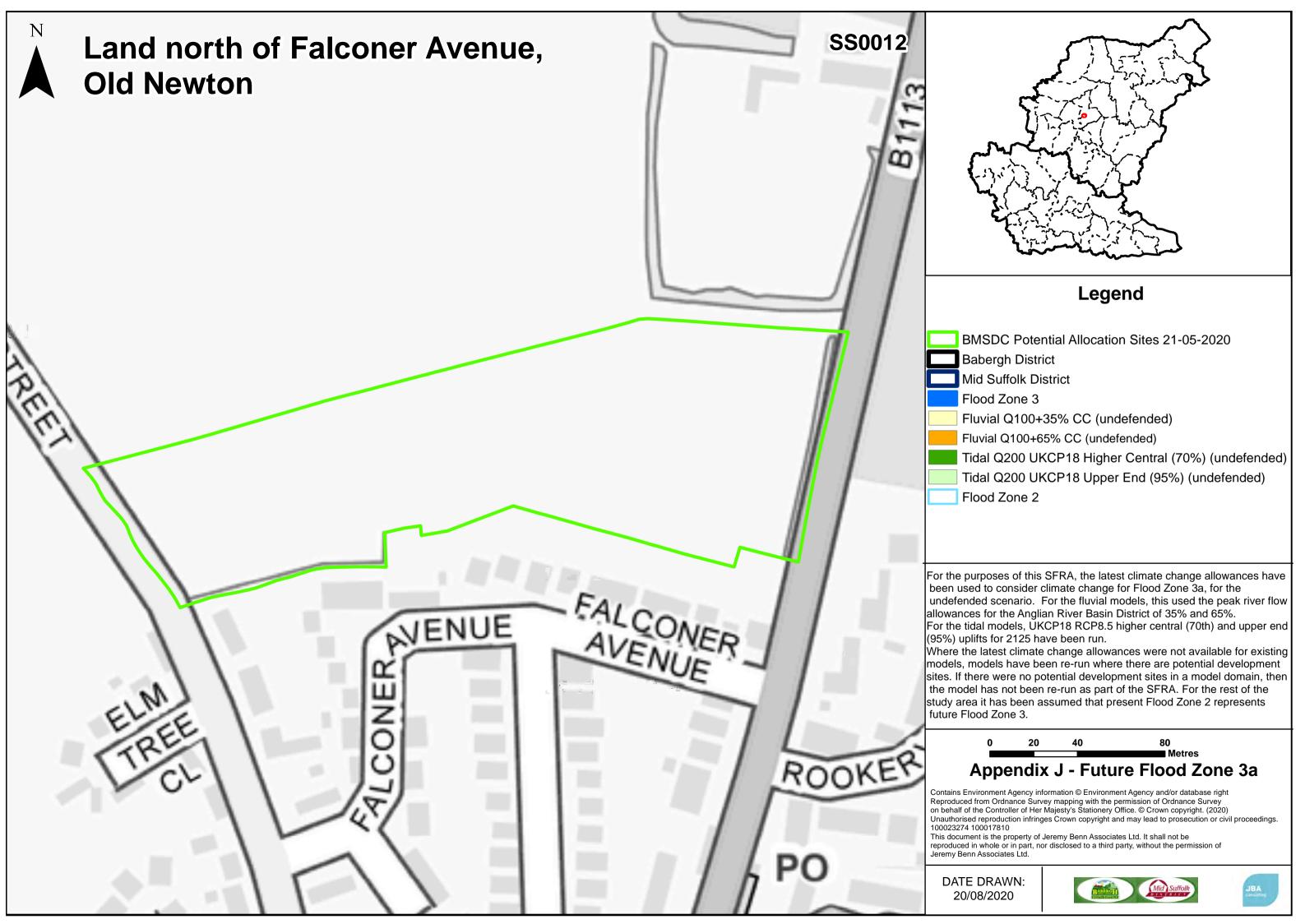
Watercourse	Model details	Model used to map Flood Zone 3b?	Flood Zone 3b with climate change?	Flood Zone 3 (undefended) with climate change?
River Gipping	Needham Market FRS 2015 (CH2M 2015)	Yes (1 in 25-year)	-	-
River Glem	ENS Survey & Model Build - River Glem (JBA Consulting 2015)	Yes (1 in 20-year)	-	-
River Box	River Box 2018 (Jacobs 2018)	Yes (1 in 20-year)	-	35% and 65% climate change scenarios
Edgars Farm Ditch	Edgars Farm Ditch (CH2M 2007)	Yes (1 in 25-year)	-	-
Wetherden Stream	Wetherden Stream (2007)	Yes (1 in 25-year)	-	-
River Box	Boxford 2018 (Jacobs 2018)	Yes (1 in 20-year)	-	35% and 65% climate change scenarios
River Stour	River Stour (Lower) (AECOM 2019)	Yes (1 in 20-year)	35% and 65% climate change scenarios run as part of SFRA	35% and 65% climate change scenarios run as part of SFRA
River Stour	River Stour (Middle) (AECOM 2019)	Yes (1 in 20-year)	35% and 65% climate change scenarios run as part of SFRA	35% and 65% climate change scenarios run as part of SFRA
River Stour	River Stour (Upper) (AECOM 2019)	Yes (1 in 20-year)	-	-
River Stour and River Orwell	Stour & Orwell Estuary - Coastal (JBA Consulting 2018)	Yes (1 in 20-year)	UKCP18 RCP8.5 higher central (70th) and upper end (95%) uplifts for 2125 run as part of SFRA	UKCP18 RCP8.5 higher central (70th) and upper end (95%) uplifts for 2125 run as part of SFRA

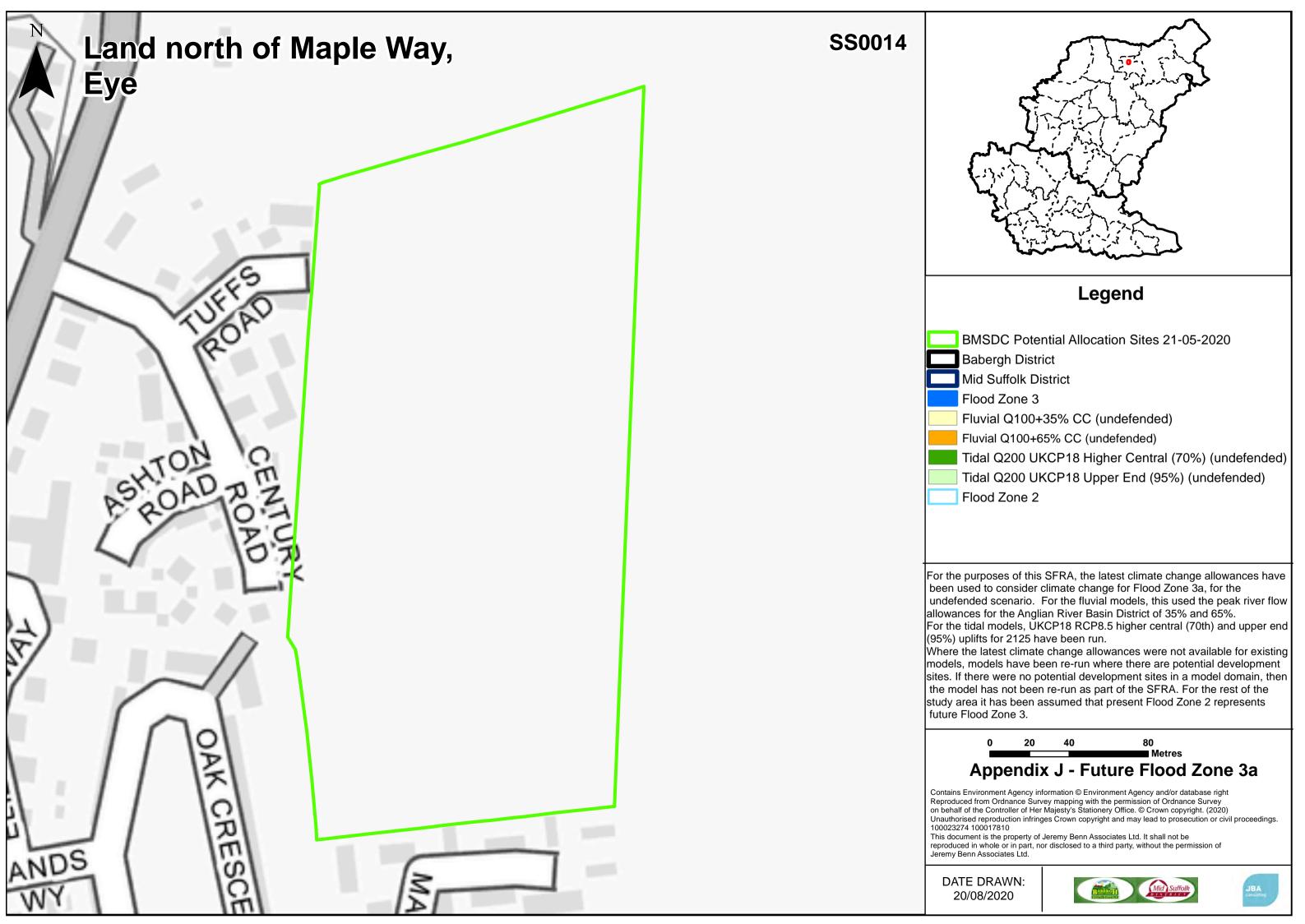


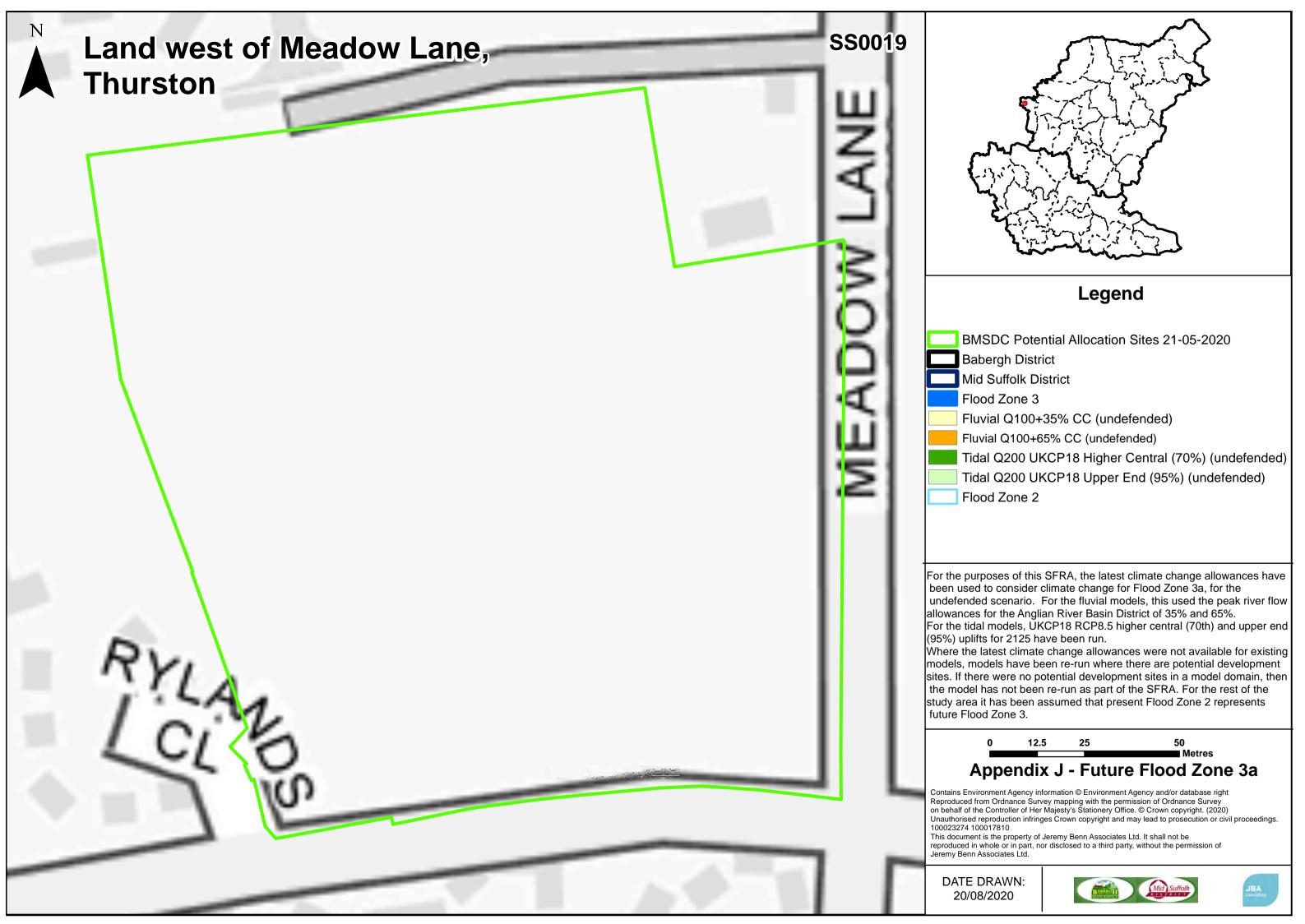


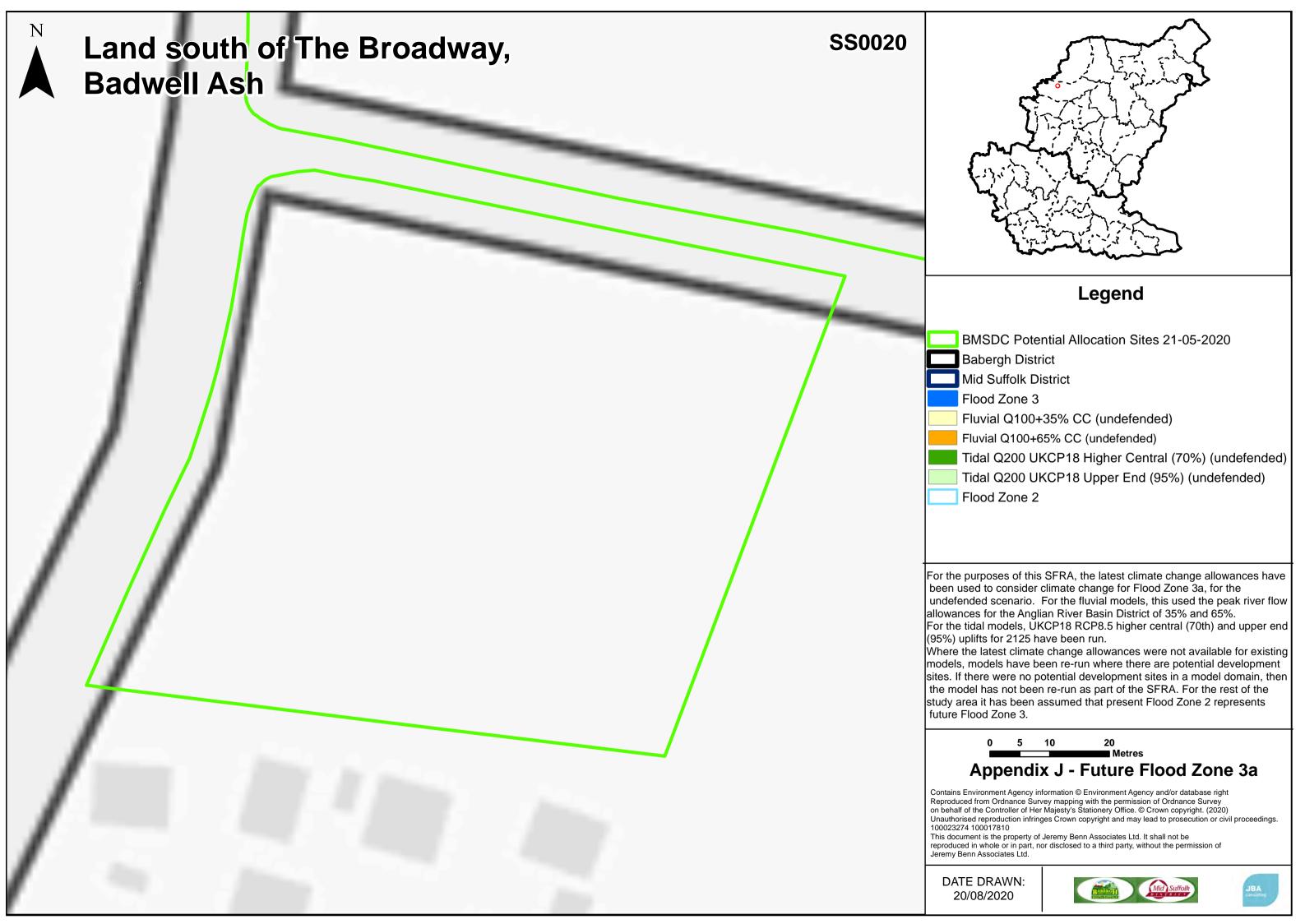


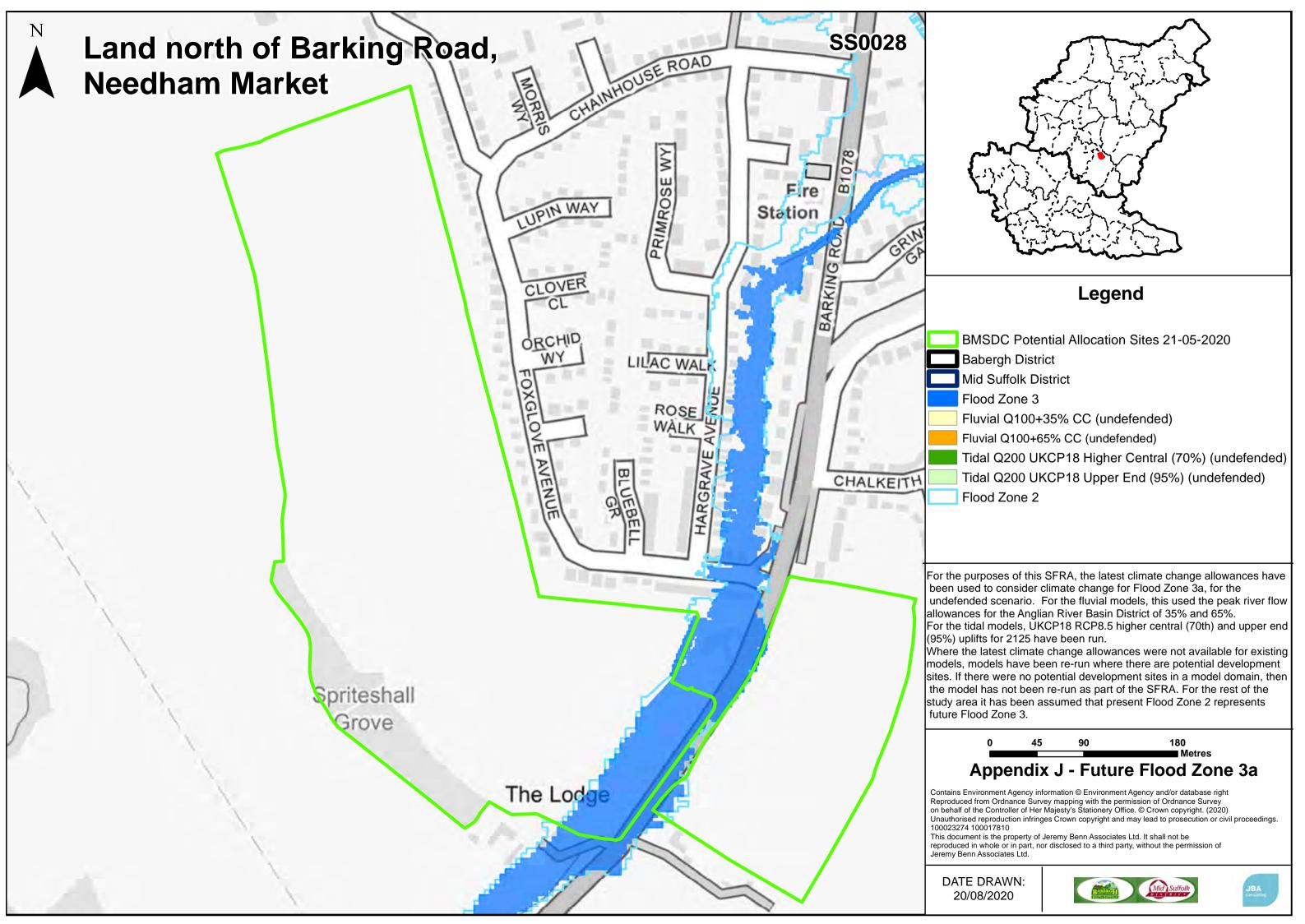


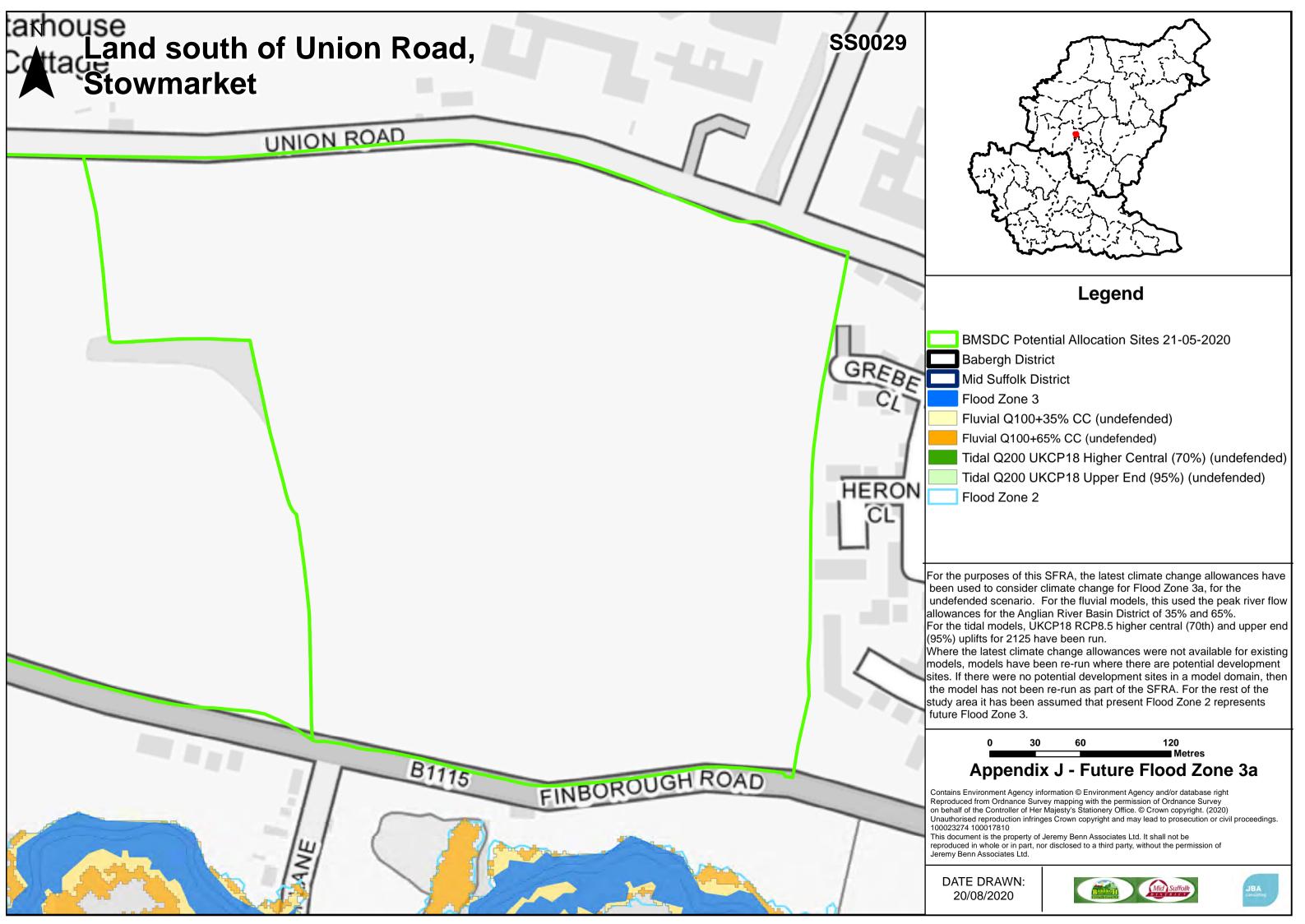


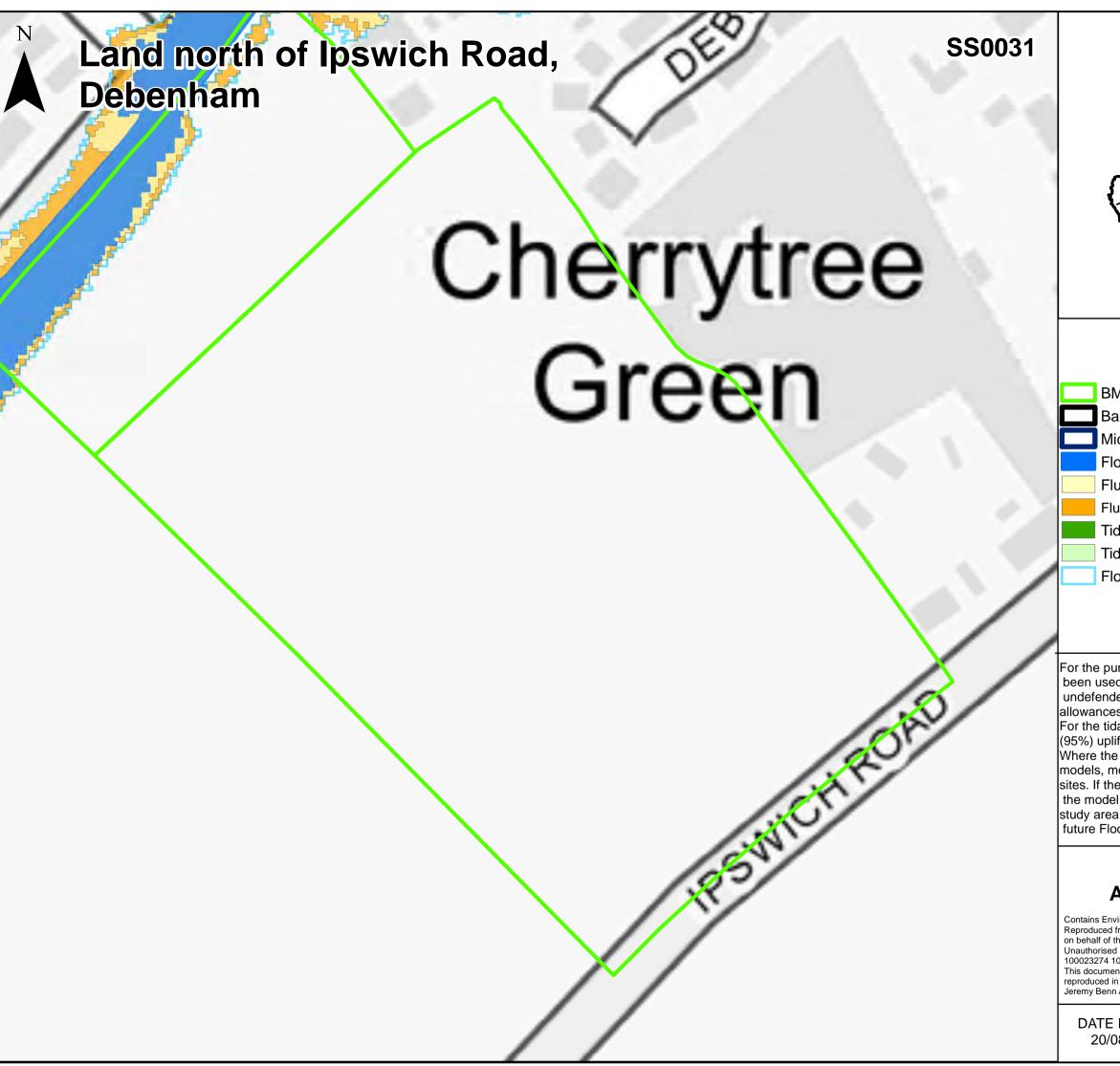














Legend

BMSDC Potential Allocation Sites 21-05-2020

Babergh District

Mid Suffolk District

Flood Zone 3

Fluvial Q100+35% CC (undefended)

Fluvial Q100+65% CC (undefended)

Tidal Q200 UKCP18 Higher Central (70%) (undefended)

Tidal Q200 UKCP18 Upper End (95%) (undefended)

Flood Zone 2

For the purposes of this SFRA, the latest climate change allowances have been used to consider climate change for Flood Zone 3a, for the undefended scenario. For the fluvial models, this used the peak river flow allowances for the Anglian River Basin District of 35% and 65%. For the tidal models, UKCP18 RCP8.5 higher central (70th) and upper end (95%) uplifts for 2125 have been run.

Where the latest climate change allowances were not available for existing models, models have been re-run where there are potential development sites. If there were no potential development sites in a model domain, then the model has not been re-run as part of the SFRA. For the rest of the study area it has been assumed that present Flood Zone 2 represents future Flood Zone 3.

Appendix J - Future Flood Zone 3a

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