creating a better place
for people and wildlife

Environment Agency

Ray Clark
[redacted]

Our ref: EIR2025/43381
Date: 17 December 2025

Dear Ray,

Flood Risk Information for Europa Way, Brigg.

The flood risk information for the above site is set out below and attached. It is important you read any contextual notes on the maps provided.

If you are preparing a Flood Risk Assessment (FRA) for this site, please note this information may not be sufficient by itself to produce an adequate FRA to demonstrate the development is safe over its lifetime. Additional information may be required to carry out an appropriate assessment of all risks, such as the consequences of a breach in the flood defences.

We aim to review our information on a regular basis, so if you are using this data more than twelve months from the date of this letter, please contact us again to check it is still valid.

Please read the letter in full as the information covered has been updated in **August 2025.**

1. Flood Map for Planning

The attached map includes the current Flood Map for Planning for your area. The map indicates the Area at Risk of Flooding (Flood Zone 3) and the Extreme Flood Outline (Flood Zone 2) **assuming no flood defences exist.**

The Area at Risk of Flooding shows the land that could be impacted from a flood with a 0.5% or greater chance of occurring in any year for flooding from the sea, or a 1% or greater chance of occurring in any year for fluvial (river) flooding.

The Extreme Flood Outline shows the land that could be impacted from a flood which has between a 1% and 0.1% chance of occurring in any year for fluvial (river) flooding, or between a 0.5% and 0.1% annual probability of sea flooding, or the highest recorded historic extent if greater.

In some locations, such as around the fens and the large coastal floodplains, showing the area at risk of flooding assuming no defences may give a slightly misleading picture in that if there were no flood defences, water would spread out across these large floodplains. This flooding could cover large areas of land but to relatively shallow depths and could leave pockets of locally slightly higher land as isolated dry islands. It is important to understand the actual risk of the flooding to these dry islands, particularly in the event of defence failure.

The Flood Map for Planning also shows the location of formal raised flood defences and flood storage reservoirs. It represents areas at risk of flooding for present day only and does not take account of climate change.

The Flood Map for Planning only indicates the extent and likelihood of flooding from rivers or the sea. It should also be remembered flooding may occur from other sources such as surface water sewers, road drainage, etc.

2. Recorded Flood Outlines

The area was previously known to have flooded in April 1981 and November 2019.

A copy of the Recorded Flood Outlines Map showing the extent of previous recorded flooding in your area is attached. This only covers information we hold, and it is possible recent flooding may have occurred which we are currently investigating, therefore this information may be subject to change.

It is possible other flooding may have occurred which other organisations, such as the Lead Local Flood Authority (i.e. top tier council), Local Authority or Internal Drainage Board (where they exist), may have records.

3. Schemes in the area

The following capital project is ongoing to reduce or sustain the current flood risk to this area.

The Environment Agency together with other agencies have been working with the Ancholme Catchment Partnership to develop the Ancholme Catchment Strategy over the last few years. This is expected to be published for consultation later in 2025.

There are a number of schemes currently being developed and delivered to reduce the risk of flooding along the River Ancholme and to Brigg. These are being collaboratively advanced by the Environment Agency with both Ancholme Internal Drainage Board and North Lincolnshire Council. These complementary projects are expected to involve a combination of flood resilience improvement, temporary storage of excess flood water, as well as local drainage improvements. It is expected that these will continue to be delivered over the course of the next few years as part of the next Flood and Coastal Erosion Risk Management investment programme from April 2026.

4. Fluvial Flood Risk Information

The site may be at risk from main rivers in the form of residual risk due to the failure of flood management infrastructure such as a breach of a raised flood defence. You may need to undertake further assessment of this residual risk using the data provided.

The site may also be at risk from local ordinary watercourses for which other risk management authorities, such as the Lead Local Flood Authority (i.e. top tier council) or Internal Drainage Board (where they exist) have responsibility.

4.1 Fluvial Defence Information

The existing fluvial defences reducing the risk of flooding from main river to this site consist of earth embankments. They are in fair condition and reduce the risk of flooding (at the defence) to a 1% (1 in 100) chance of occurring in any year. We inspect these defences routinely to ensure potential defects are identified.

Refer to paragraph 3 for details of any ongoing capital projects to reduce the flood risk to this site.

4.2 Fluvial Modelled Levels and Flows

Available modelled fluvial flood levels and flows for the model nodes shown on the attached map are set out in the data table attached. This data is taken from the model named on the data table, which is the most up-to-date model currently available.

Please note these levels are “in-channel” levels and therefore may not represent the flood level on the floodplain, particularly where the channel is embanked or has raised defences.

Our models may not have the most up to date climate change allowances. In time we will update our models for the latest allowances. You should refer to 'Flood risk assessments: climate change allowances' to check if the allowances modelled are appropriate for the type of development you are proposing and its location. You may need to undertake further assessment of future flood risk using different allowances to ensure your assessment of future flood risk is based on best available evidence.

4.3 Fluvial Modelled Flood Extents

Our modelled flood extents, which take into account flood defences, do not impact this site.

There may still be a residual risk of fluvial flooding to your site due to the failure of flood management infrastructure such as a breach of a raised flood defence. You may need to undertake further assessment of this residual risk using the data provided.

4.4 Fluvial Hazard Mapping

For certain locations we have carried out modelling to map the maximum values of flood depth, velocity and hazard rating (danger to people) resulting from overtopping and / or breaching of defences at specific locations for a number of scenarios.

At present this information is available for fluvial flood risk in Northampton, Lincoln, Wainfleet and some isolated rural locations.

The number of locations we have this information for is expected to increase in time.

At present this site is not covered by any fluvial hazard mapping.

5. Tidal Flood Risk Information

This site is considered to be at risk from tidal flooding.

5.2 Tidal Flood Levels

The attached data sheets show our current best estimate for extreme tide levels.

Please read the information notes on the data sheets.

5.3 Tidal Hazard Mapping

For certain locations we have carried out modelling to map the maximum values of flood depth, velocity and hazard rating (danger to people) resulting from overtopping and / or breaching of defences at specific locations for a number of scenarios.

At present this information is available along the full coastal / tidal floodplain, except the tidal Witham Haven in Boston (upstream of Hobhole) where only breaching and not overtopping has been modelled and the tidal River Welland upstream of Fosdyke Bridge where neither breaching nor overtopping are available.

The number of locations we have this information for is expected to increase in time.

5.3.1 Tidal Hazard Mapping – Breaches

Your site is not affected by breaching of the defences for the present day (2006) and climate change (2115) scenarios, from the breach locations that we have modelled. If a breach was to occur in a different location the site could be impacted.

5.3.2 Tidal Hazard Mapping - Overtopping

The attached maps show the maximum values of flood depth, velocity and hazard rating (danger to people) resulting from simulated overtopping of defences for the following scenarios:

Overtopping hazard mapping has not been undertaken on the tidal Haven. Any tidal overtopping impacts mapped is from overtopping of the Wash front line defences only.

- Year 2115 0.5% (1 in 200) chance
- Year 2115 0.1% (1 in 1000) chance

Your site is not affected by overtopping of the defences for the present day (2006) scenarios.

6. Development Planning

If you would like local guidance on preparing a flood risk assessment for a planning application, please contact our Sustainable Places team at LNplanning@environment-agency.gov.uk. It will help if you mention this data request and attach your site location plan.

We provide free preliminary advice; additional/detailed advice, review of draft FRAs and meetings are chargeable at a rate set to cover our costs, currently £115 (plus VAT) per hour of staff time. Further details are available on our website at https://www.gov.uk/guidance/developers-get-environmental-advice-on-your-planning-proposals.

General advice on flood risk assessment for planning applications can be found on GOV.UK at https://www.gov.uk/guidance/flood-risk-assessment-for-planning-applications

We have provided information on risk of breach where it is available. If you are intending on using this information to prepare a Flood Risk Assessment you will need to check if the data meets your requirements. You may need to carry out further assessment (or modelling) for sites that are at residual risk (including from breach of defences), or additional locations or scenarios.

Climate change will increase flood risk due to overtopping of defences. Please note, unless specified otherwise, the climate change data included has an allowance for 20% increase in flow. Updated guidance on how climate change could affect flood risk to new development - 'Flood risk assessments: climate change allowances' was published on GOV.UK in **July 2021**. The appropriate updated climate change allowance should be applied in a Flood Risk Assessment.

You should also consult the Strategic Flood Risk Assessment produced by your local planning authority.

7. Permitting Information

Under the Environmental Permitting (England and Wales) Regulations 2016, permission must be obtained from the Environment Agency for any proposed activities which will take place:

- in, over, under or within 8 metres of a main river (16 metres if tidal)
- on or within 8 metres of a flood defence structure or culvert (16 metres if tidal)
- on or within 16 metres of a sea defence
- within 16 metres of any main river, flood defence (including a remote defence) or culvert for quarrying or excavation
- in a flood plain more than 8 metres from the river bank, culvert or flood defence structure (16 metres if tidal) if planning permission has not already been granted for the works

For further guidance and advice please visit our website: https://www.gov.uk/guidance/flood-risk-activities-environmental-permits or contact our local Partnerships and Strategic Overview team by email at pso_coastal@environment-agency.gov.uk. The team will be able to advise if an environmental permit or exemption registration is required and the fee applicable.

Please note that a permit is separate to and in addition to any planning permission granted. The applicant should not assume that such a permit will automatically be forthcoming once planning permission has been granted, and we would advise them to consult with us at the earliest opportunity.

8. Data Licence and Other Supporting Information

We respond to requests for recorded information we hold under the Freedom of Information Act 2000 (FOIA) and the associated Environmental Information Regulations 2004 (EIR).

This information is provided in accordance with the Open Government Licence which can be found here: http://www.nationalarchives.gov.uk/doc/open-government-licence/version/3/

Further information on flood risk can be found on the GOV.UK website at: https://www.gov.uk/browse/environment-countryside/flooding-extreme-weather

Rights of appeal

If you are not satisfied with our decision, you can contact us within two calendar months to ask for the decision to be reviewed. We will then conduct an internal review of our response to your request and give you our decision in writing within 40 working days.

If you are not satisfied with the outcome of the internal review, you can then make an appeal to the Information Commissioner Office, the statutory regulator for EIR and the Freedom of Information Act 2002. The address is: Information Commissioner's Office, Wycliffe House, Water Lane, Wilmslow, Cheshire. SK9 5AF.

Tel: 0303 123 1113 (local rate) or 01625 545 745 (national rate) | Fax: 01625 524 510
Email: casework@ico.org.uk | Website: www.ico.org.uk

9. Other Flood Risk Management Authorities

The information provided with this letter relates to flood risk from main river or the sea. The Flood Map for Surface Water can be viewed at https://www.gov.uk/check-long-term-flood-risk

Additional information may be available from other risk management authorities, such as the Lead Local Flood Authority (ie top tier council) or Internal Drainage Board (where they exist).

I hope we have correctly interpreted your request. If you have any queries or would like to discuss the content of this letter further please contact Emma Haines using the email address below and quoting our EIR reference number above.

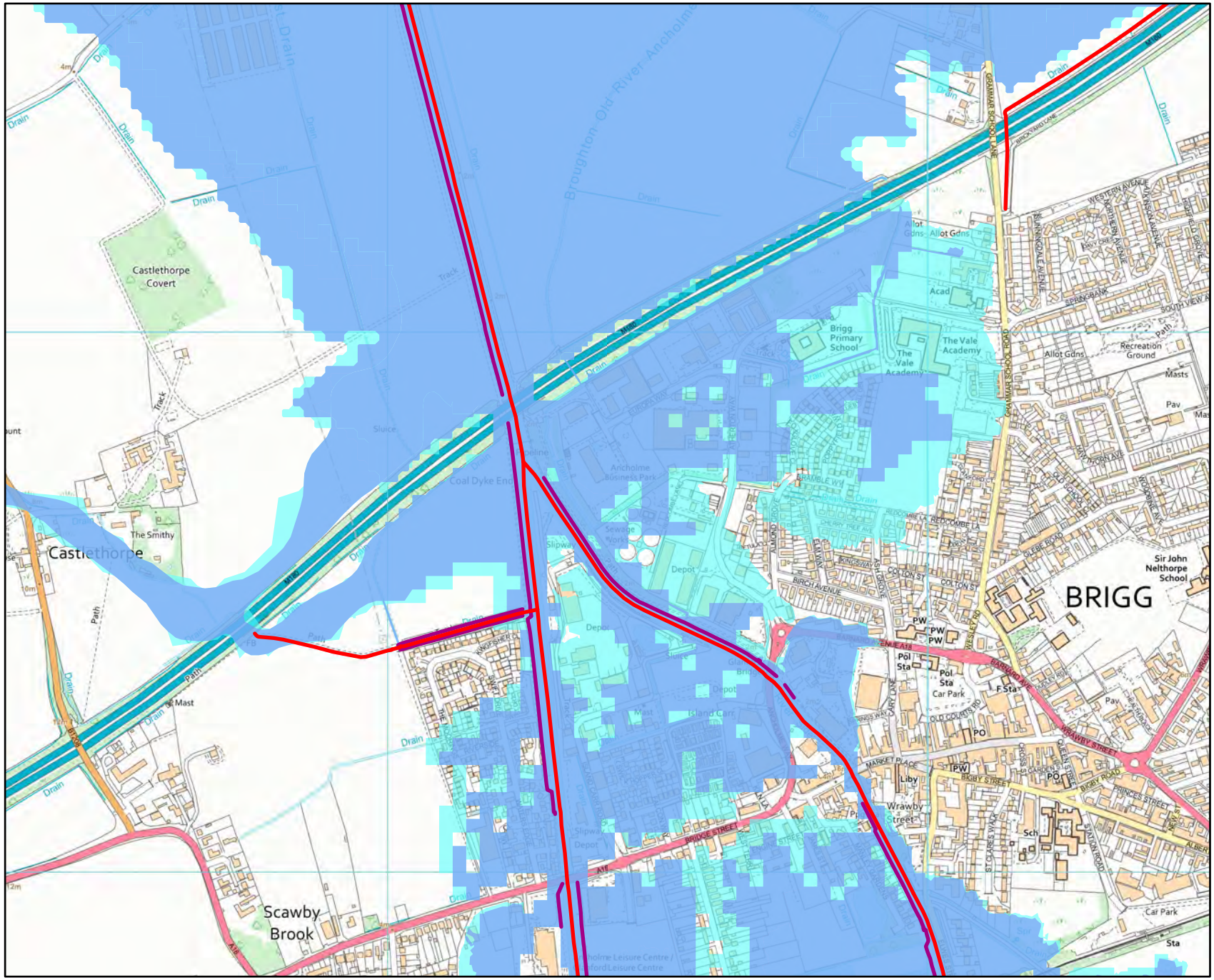
Yours sincerely,

[redacted]

for Paul Payne
South Humber and East Coast Partnerships and Strategic Overview Team Leader
e-mail [redacted]

Enc.
Flood Map for Planning
Recorded Flood Event Outlines Map
Modelled Node Points Map
Modelled Fluvial Levels and Flows Data Sheet
Baseline Modelled Flood Extent Maps
Climate Change Modelled Flood Extent Maps
Tidal Level Data Sheets - Map and Tables
Hazard Mapping – Overtopping

Flood Map for Planning centred on SE 99406 07707 - created December 2025 [Ref: EIR-2025-43381]



Environment Agency

Scale 1:10,000

N W E S

Legend

- Main River
- Raised Defences
- Areas at Risk of Flooding from Rivers and Sea
- Extreme Flood Outline

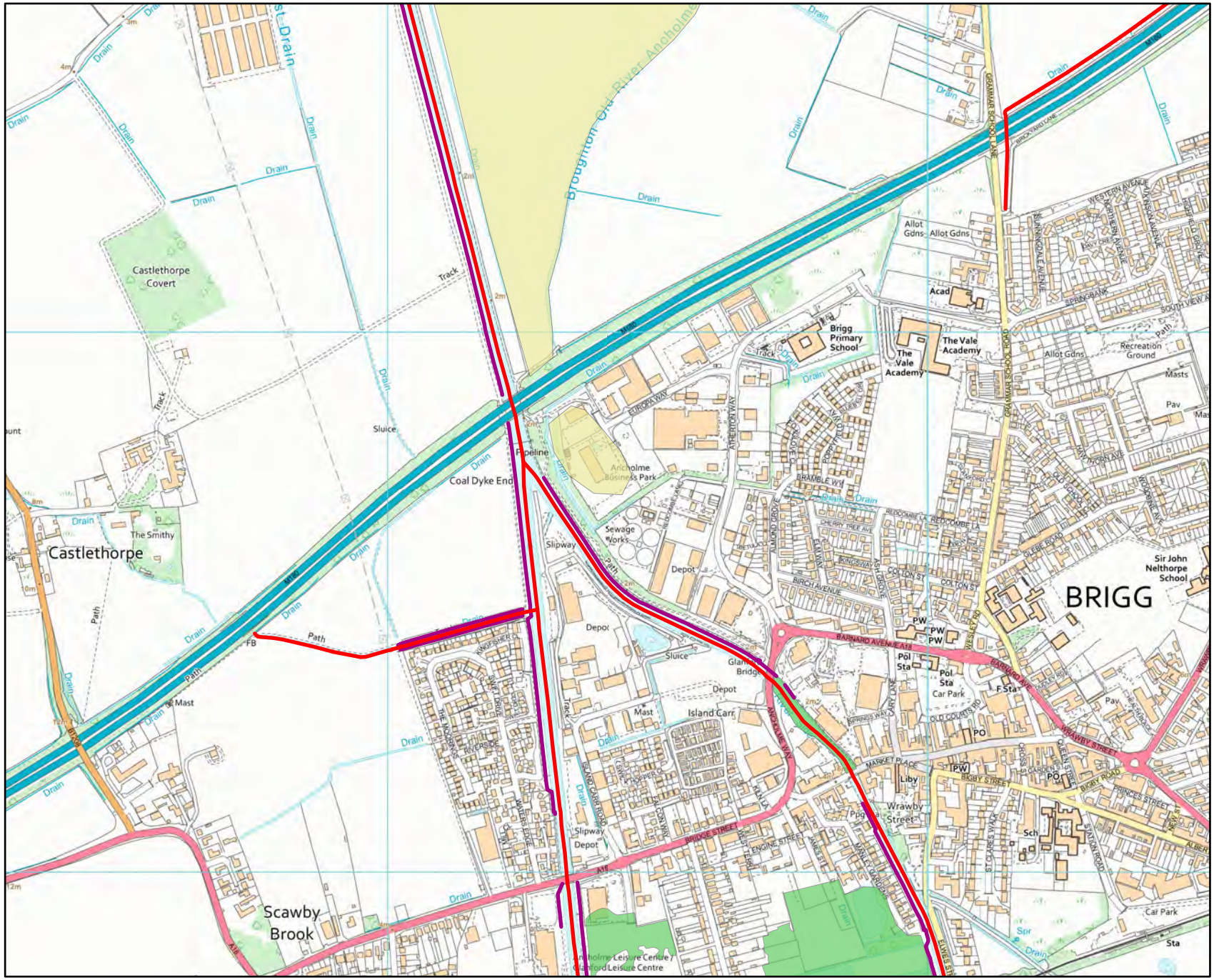
Dark blue shows the area that could be affected by flooding, either from rivers or the sea, if there were no flood defences. This represents land that could be impacted by a flood which has a 1% (1 in 100) or greater chance of occurring in any year from rivers or 0.5% (1 in 200) or greater annual probability of flooding from the sea.

Light blue shows the extent of the Extreme Flood Outline. This represents land that could be impacted by a flood which has between a 1% and 0.1% (1 in 100 to 1 in 1000) chance of occurring in any year from rivers or between 0.5% and 0.1% (1 in 200 to 1 in 1000) annual probability of flooding from the sea, or the highest recorded historic extent if greater.

These two colours show the extent of the natural floodplain if there were no flood defences or certain other manmade structures and channel improvements. Sites outside the two extents, but behind raised defences, may be affected by flooding if the defences are overtopped or fail.

Contact Us: National Customer Contact Centre, PO Box 544, Rotherham, S60 1BY. Tel: 03708 506 506 (Mon-Fri 8-6). Email: enquiries@environment-agency.gov.uk

Recorded Flood Outlines centred on SE 99406 07707 - created December 2025 [Ref: EIR-2025-43381]



Environment Agency

Scale 1:10,000

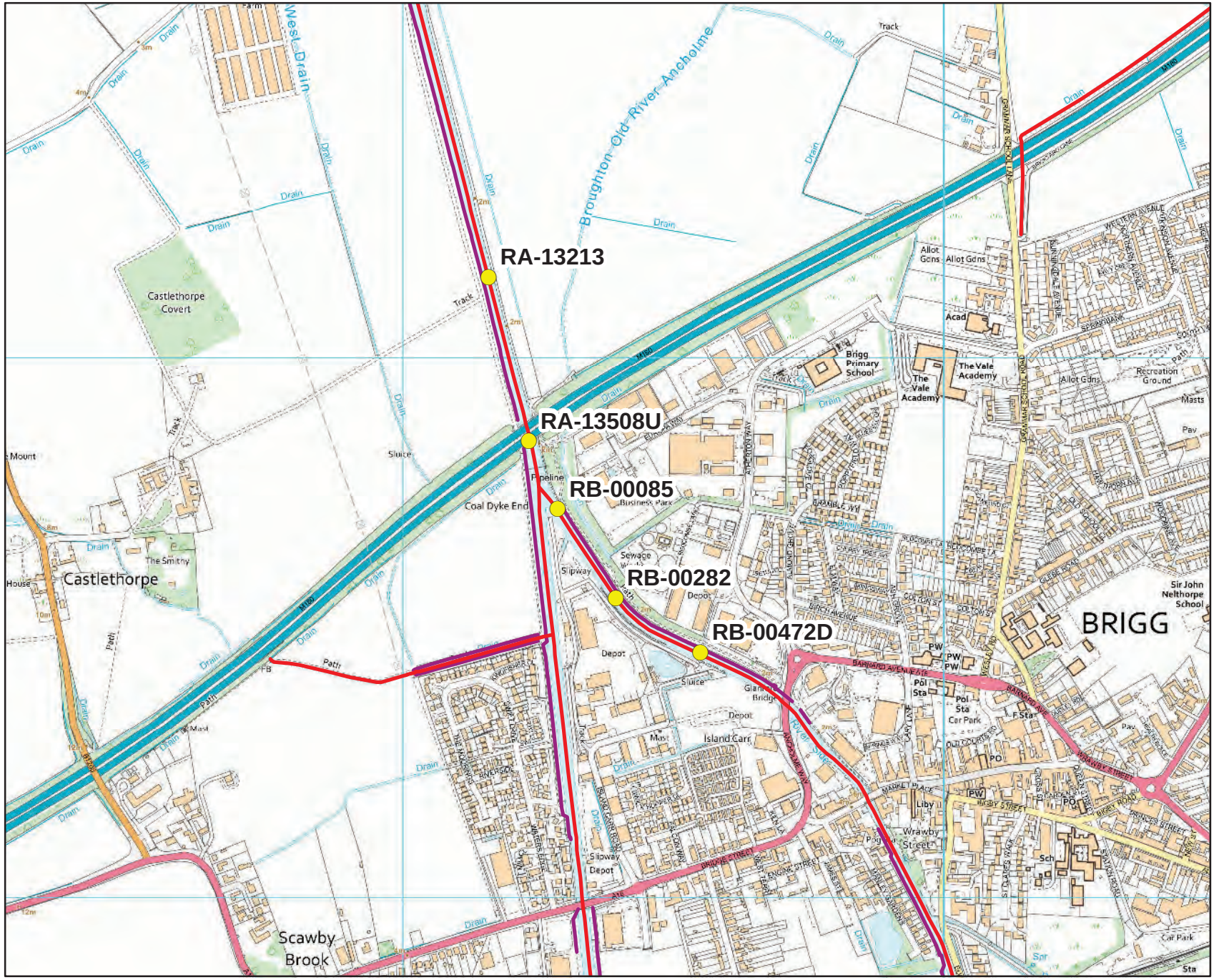
N W E S

Legend

- Main River
- Raised Defences
- LNA_1981_04_Old River Ancholme
- LNA_2019_11_River Ancholme

Contact Us: National Customer Contact Centre, PO Box 544, Rotherham, S60 1BY. Tel: 03708 506 506 (Mon-Fri 8-6). Email: enquiries@environment-agency.gov.uk

Modelled Nodes centred on SE 99378 07755 - created December 2025 [Ref: EIR-2025-43381]



Environment Agency

Scale 1:10,000

N W E S

Legend

- Modelled Nodes
- Main River
- Raised Defences

Contact Us: National Customer Contact Centre, PO Box 544, Rotherham, S60 1BY. Tel: 03708 506 506 (Mon-Fri 8-6). Email: enquiries@environment-agency.gov.uk

Fluvial Flood Levels (mODN)

The fluvial flood levels for the model nodes shown on the attached map are set out in the table below. They are measured in metres above Ordnance Datum Newlyn (mODN).

			Annual Exceedance Probability - Maximum Water Levels (mODN)						
Node Label	Easting	Northing	50% (1 in 2)	20% (1 in 5)	10% (1 in 10)	5% (1 in 20)	4% (1 in 25)	3.33% (1in 30)	2% (1 in 50)
RB-00472D	499549	407453	2.17	2.61	2.61	2.61	2.61	2.61	2.62
RB-00282	499392	407554	2.16	2.60	2.60	2.61	2.61	2.61	2.61
RB-00085	499285	407718	2.16	2.60	2.60	2.60	2.60	2.61	2.61
RA-13508U	499232	407845	2.16	2.59	2.59	2.59	2.59	2.60	2.60
RA-13213	499158	408148	2.15	2.58	2.58	2.58	2.58	2.58	2.59

			Annual Exceedance Probability - Maximum Water Levels (mODN)					
Node Label	Easting	Northing	1.33% (1 in 75)	1% (1 in 100)	1% (1 in 100) inc 20% Climate Change	0.5% (1 in 200)	0.1% (1 in 1000)	0.1% (1 in 1000) inc 20% Climate Change
RB-00472D	499549	407453	2.62	2.62	2.63	2.63	2.64	2.65
RB-00282	499392	407554	2.61	2.62	2.62	2.62	2.64	2.64
RB-00085	499285	407718	2.61	2.61	2.62	2.62	2.63	2.64
RA-13508U	499232	407845	2.60	2.60	2.61	2.60	2.62	2.62
RA-13213	499158	408148	2.59	2.59	2.59	2.59	2.60	2.61

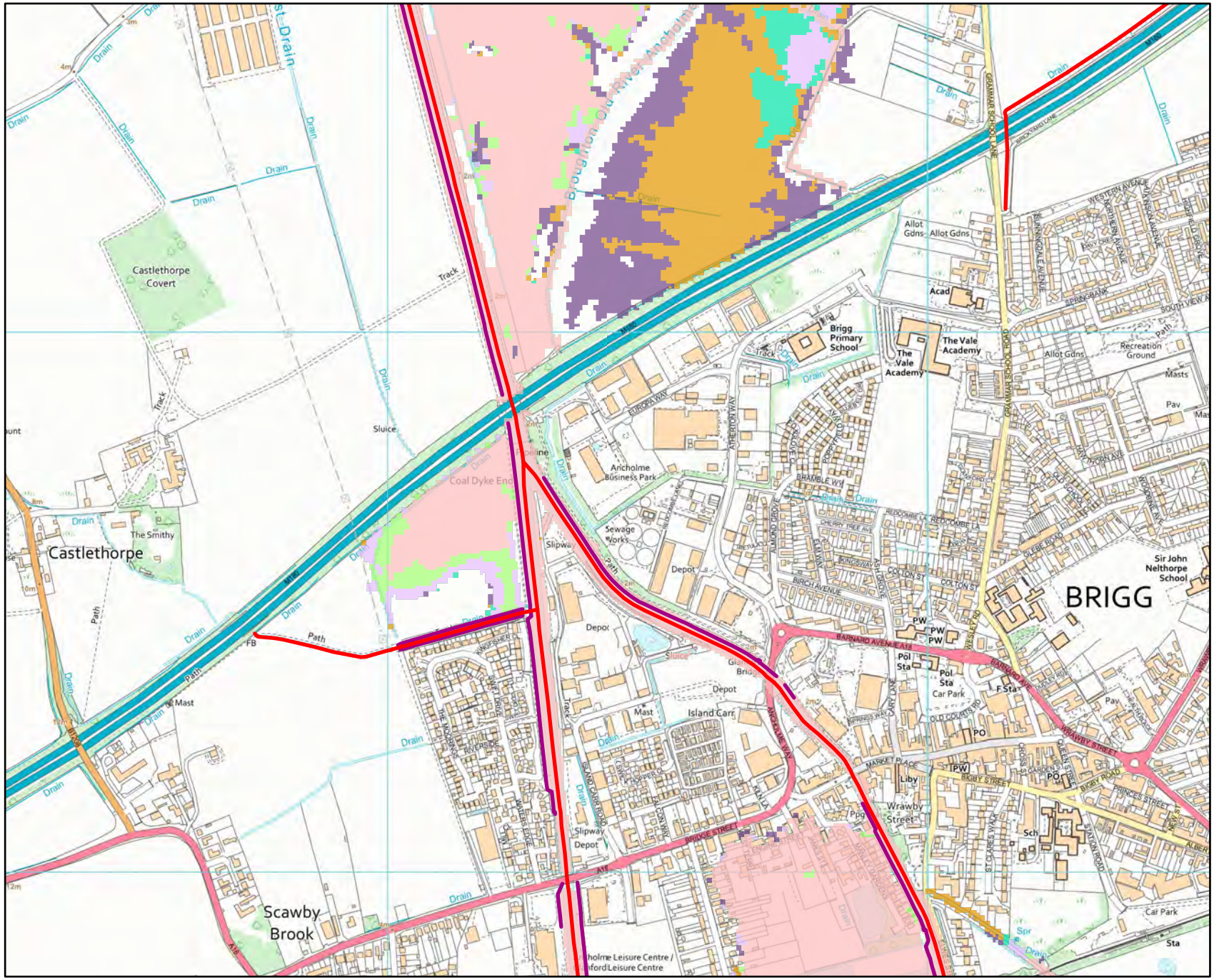
Fluvial Flood Flows (m³/s)

The fluvial flood flows for the model nodes shown on the attached map are set out in the table below. They are measured in metres cubed per second (m³/s).

			Annual Exceedance Probability - Maximum Flows (m³/s)						
Node Label	Easting	Northing	50% (1 in 2)	20% (1 in 5)	10% (1 in 10)	5% (1 in 20)	4% (1 in 25)	3.33% (1in 30)	2% (1 in 50)
RB-00472D	499549	407453	16.54	16.54	16.53	16.53	16.53	16.54	16.84
RB-00282	499392	407554	15.17	16.88	16.89	16.80	16.89	16.85	17.02
RB-00085	499285	407718	16.39	16.72	16.68	16.65	16.70	16.70	17.16
RA-13508U	499232	407845	35.20	50.57	50.44	51.49	51.94	52.21	52.88
RA-13213	499158	408148	35.35	50.80	50.72	51.72	52.16	52.43	53.00

			Annual Exceedance Probability - Maximum Flows (m³/s)					
Node Label	Easting	Northing	1.33% (1 in 75)	1% (1 in 100)	1% (1 in 100) inc 20% Climate Change	0.5% (1 in 200)	0.1% (1 in 1000)	0.1% (1 in 1000) inc 20% Climate Change
RB-00472D	499549	407453	17.09	17.19	17.33	17.35	17.48	18.12
RB-00282	499392	407554	17.14	17.25	17.39	17.39	17.51	18.19
RB-00085	499285	407718	17.26	17.37	17.52	17.53	17.63	18.26
RA-13508U	499232	407845	53.38	53.61	53.99	54.10	55.58	57.50
RA-13213	499158	408148	53.33	53.51	54.44	53.91	55.68	56.16

Baseline Modelled Flood Extents (with defences) Model: Ancholme 2021 [EIR-2025-43381]



Environment Agency

Scale 1:10,000

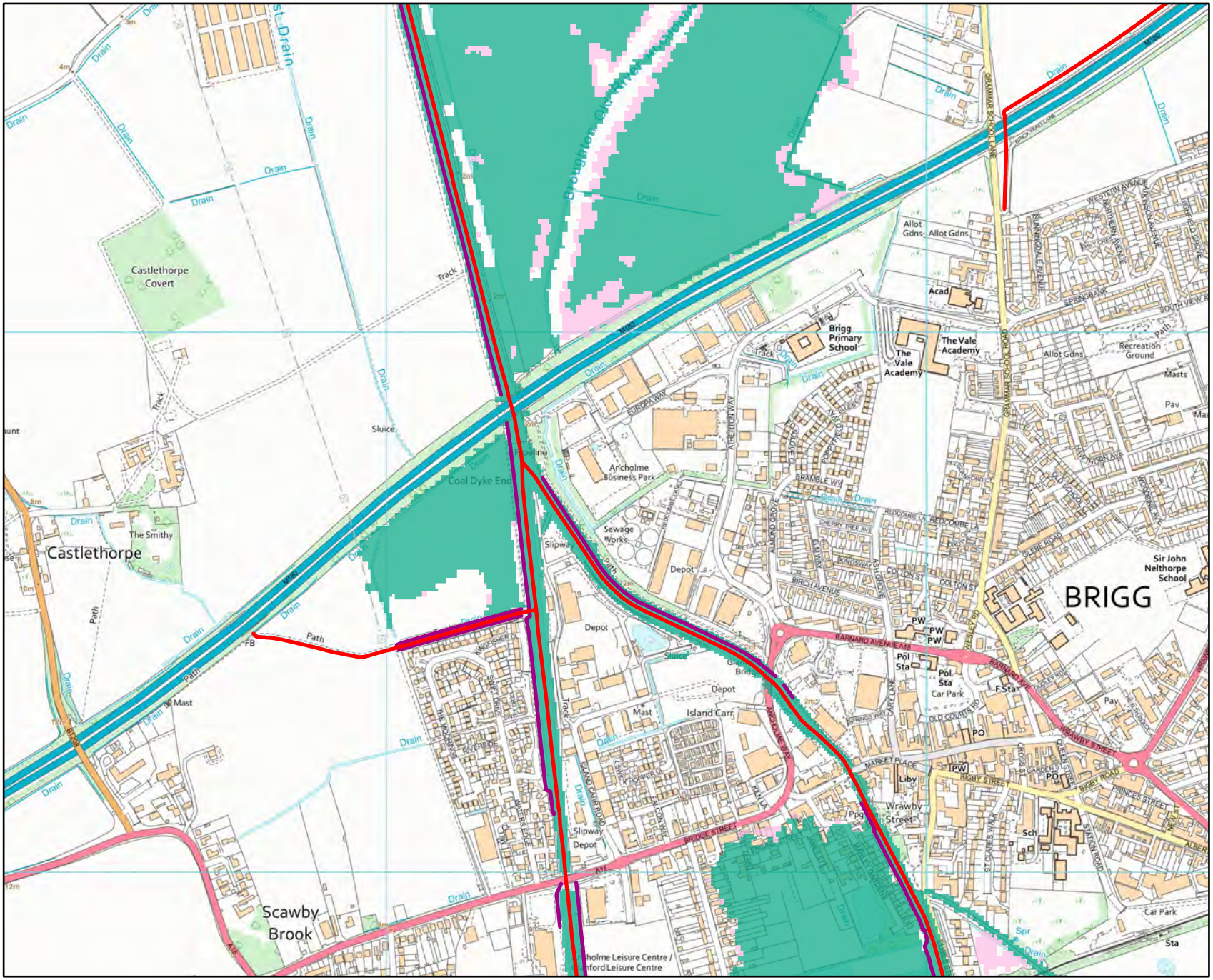
N W E S

Legend

- Main River
- Raised Defences
- 20% (1 in 5) fluvial event
- 5% (1in 20) fluvial event
- 1.33% (1in 75) fluvial event
- 1% (1in 100) fluvial event
- 0.5% (1 in 200) fluvial event
- 0.1% (1 in 1000) fluvial event

Contact Us: National Customer Contact Centre, PO Box 544, Rotherham, S60 1BY. Tel: 03708 506 506 (Mon-Fri 8-6). Email: enquiries@environment-agency.gov.uk

Climate Change Flood Extents (with defences) Model: Ancholme 2021 [EIR-2025-43381]



Environment Agency

Scale 1:10,000

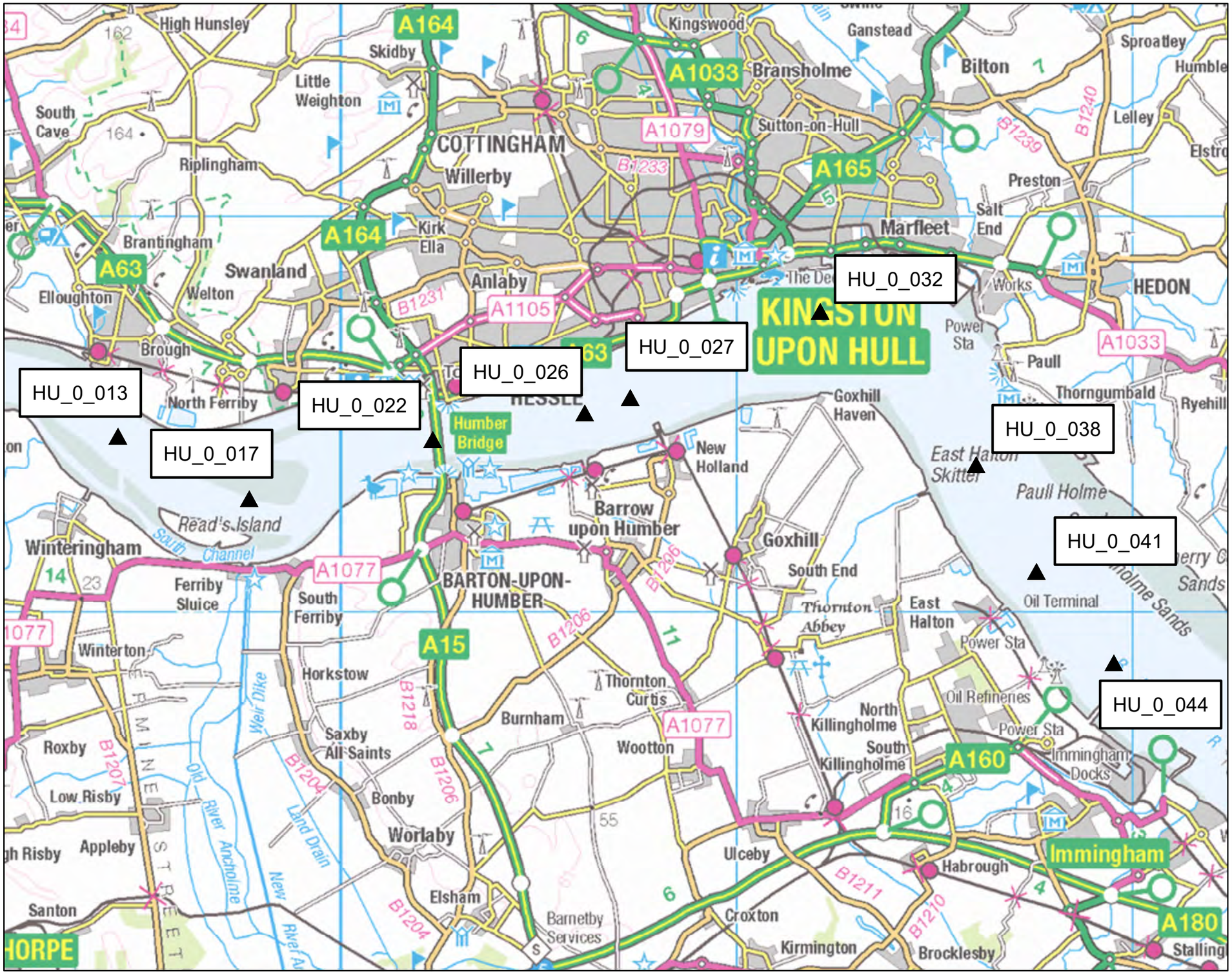
N W E S

Legend

- Main River
- Raised Defences
- 1% (1 in 100) inc 20% climate change fluvial event
- 0.1% (1 in 1000) inc 20% climate change fluvial event

Contact Us: National Customer Contact Centre, PO Box 544, Rotherham, S60 1BY. Tel: 03708 506 506 (Mon-Fri 8-6). Email: enquiries@environment-agency.gov.uk

Humber Estuary - 2021 Water Levels
Key Node Points



Environment Agency

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▲ 2021 Humber Water Levels

See seperate data sheet for predicted flood levels for epochs 2021, 2046, 2071 and 2121

Levels for Immingham and 'downstream' are available as part of the East Coast and Wash dataset

Created by the Partnerships and Strategic Overview Team, Lincoln

Contact Us: National Customer Contact Centre, PO Box 544, Rotherham, S60 1BY. Tel: 03708 506 506 (Mon-Fri 8-6). Email: enquiries@environment-agency.gov.uk

Humber Estuary

2021 Water Level Profile - Higher Central Allowance from UKCP18

Ref	Location	X	Y	Annual Chance (1 in x) of Tide Level (metres ODN)																							
				2021						2046						2071						2121					
				2	10	50	100	200	1000	2	10	50	100	200	1000	2	10	50	100	200	1000	2	10	50	100	200	1000
HU_0_013	**Winterton**	494381	424469	5.00	5.26	5.56	5.70	5.87	6.09	5.18	5.44	5.73	5.85	5.99	6.19	5.42	5.68	5.92	6.02	6.14	6.30	5.97	6.13	6.27	6.33	6.40	6.51
HU_0_017	**Ferriby**	497698	422893	4.95	5.21	5.50	5.64	5.81	6.06	5.12	5.39	5.67	5.80	5.94	6.16	5.37	5.62	5.88	5.98	6.10	6.29	5.93	6.10	6.27	6.34	6.41	6.54
HU_0_022	**Humber Bridge**	502336	424388	4.83	5.10	5.39	5.52	5.69	5.96	5.01	5.28	5.56	5.69	5.84	6.08	5.26	5.51	5.78	5.88	6.01	6.22	5.83	6.02	6.20	6.28	6.36	6.54
HU_0_026	**Barrow Haven**	506176	425059	4.72	4.98	5.28	5.41	5.58	5.86	4.90	5.16	5.45	5.58	5.73	5.99	5.14	5.40	5.68	5.79	5.92	6.14	5.73	5.94	6.13	6.21	6.30	6.48
HU_0_027	**New Holland**	507322	425442	4.69	4.96	5.25	5.39	5.56	5.84	4.87	5.14	5.43	5.56	5.71	5.97	5.12	5.38	5.65	5.77	5.90	6.13	5.71	5.92	6.12	6.20	6.29	6.47
HU_0_032	**Goxhill**	512120	427621	4.57	4.84	5.13	5.26	5.43	5.73	4.75	5.02	5.31	5.44	5.59	5.87	5.00	5.26	5.54	5.66	5.80	6.05	5.60	5.82	6.04	6.13	6.22	6.40
HU_0_038	**East Halton**	516057	423749	4.43	4.70	4.99	5.12	5.28	5.59	4.61	4.87	5.16	5.29	5.45	5.75	4.85	5.11	5.40	5.52	5.66	5.94	5.46	5.70	5.94	6.04	6.14	6.35
HU_0_041	**North Killingholme**	517581	421056	4.38	4.63	4.92	5.05	5.21	5.53	4.55	4.81	5.10	5.23	5.38	5.69	4.79	5.05	5.33	5.46	5.61	5.90	5.40	5.65	5.90	6.00	6.11	6.33
HU_0_044	**South Killingholme**	519538	418746	4.32	4.58	4.86	4.99	5.15	5.47	4.50	4.75	5.04	5.16	5.32	5.63	4.73	4.99	5.27	5.40	5.54	5.84	5.34	5.59	5.85	5.95	6.08	6.30
For **Immingham** and downstream refer to east coast levels page																											

NOTES FOR THE HUMBER LEVELS:

- The base date for the data is 2021.
- Models are based on current defence configuration (i.e. Location and heights)
- Levels included in the table for years 2046, 2071 and 2121 include projected climate change (sea level and fluvial flow uplifts) in line with the **Higher Central Allowance from UKCP18**.
- Levels for the Upper End and H++ scenarios are available on request.
- Intermediate locations are available.
- The levels are still water levels. Depending on the use of the data it may be necessary to consider wave heights and / or joint probability analysis of water level and other variables.
- Levels for other annual chance probabilities are available if required.
- *The levels for Immingham are taken from the 2018 Coastal Flood Boundary dataset.

Humber Estuary

2021 Water Level Profile – Upper End Allowance from UKCP18

Ref	Location	X	Y	Annual Chance (1 in x) of Tide Level (metres ODN)																							
				2021						2046						2071						2121					
				2	10	50	100	200	1000	2	10	50	100	200	1000	2	10	50	100	200	1000	2	10	50	100	200	1000
HU_0_013	**Winterton**	494381	424469	5.01	5.28	5.57	5.71	5.88	6.10	5.22	5.49	5.77	5.88	6.02	6.21	5.55	5.79	6.01	6.10	6.20	6.34	6.19	6.31	6.41	6.46	6.52	6.66
HU_0_017	**Ferriby**	497698	422893	4.96	5.22	5.51	5.65	5.82	6.06	5.17	5.43	5.71	5.83	5.98	6.19	5.49	5.74	5.97	6.06	6.18	6.35	6.17	6.31	6.43	6.49	6.56	6.68
HU_0_022	**Humber Bridge**	502336	424388	4.84	5.11	5.40	5.53	5.70	5.97	5.05	5.32	5.60	5.73	5.87	6.11	5.38	5.63	5.88	5.98	6.10	6.29	6.10	6.25	6.41	6.48	6.55	6.71
HU_0_026	**Barrow Haven**	506176	425059	4.73	4.99	5.29	5.42	5.59	5.87	4.94	5.20	5.49	5.62	5.77	6.02	5.27	5.52	5.78	5.88	6.01	6.22	6.01	6.18	6.33	6.42	6.50	6.71
HU_0_027	**New Holland**	507322	425442	4.70	4.97	5.26	5.40	5.56	5.85	4.92	5.18	5.47	5.60	5.74	6.00	5.24	5.50	5.76	5.86	5.99	6.20	6.00	6.17	6.32	6.40	6.49	6.70
HU_0_032	**Goxhill**	512120	427621	4.58	4.85	5.14	5.28	5.44	5.74	4.80	5.06	5.35	5.48	5.63	5.90	5.12	5.38	5.65	5.76	5.89	6.13	5.91	6.10	6.27	6.34	6.43	6.67
HU_0_038	**East Halton**	516057	423749	4.44	4.71	5.00	5.13	5.29	5.60	4.66	4.92	5.20	5.33	5.49	5.78	4.98	5.24	5.51	5.63	5.77	6.03	5.80	6.00	6.20	6.28	6.37	6.59
HU_0_041	**North Killingholme**	517581	421056	4.39	4.64	4.93	5.07	5.22	5.54	4.59	4.85	5.14	5.27	5.42	5.73	4.92	5.17	5.45	5.57	5.72	6.00	5.75	5.96	6.17	6.26	6.35	6.59
HU_0_044	**South Killingholme**	519538	418746	4.33	4.59	4.87	5.00	5.16	5.48	4.54	4.79	5.08	5.21	5.36	5.67	4.86	5.11	5.39	5.51	5.66	5.95	5.69	5.92	6.14	6.23	6.33	6.56
For **Immingham** and downstream refer to east coast levels page																											

NOTES FOR THE HUMBER LEVELS:

- The base date for the data is 2021.
- Models are based on current defence configuration (i.e. Location and heights)
- Levels included in the table for years 2046, 2071 and 2121 include projected climate change (sea level and fluvial flow uplifts) in line with the **Upper End Allowance from UKCP18**.
- Levels for the Higher Central Allowance and H++ scenarios are available on request.
- Intermediate locations are available.
- The levels are still water levels. Depending on the use of the data it may be necessary to consider wave heights and / or joint probability analysis of water level and other variables.
- Levels for other annual chance probabilities are available if required.
- *The levels for Immingham are taken from the 2018 Coastal Flood Boundary dataset.

Humber Estuary

2021 Water Level Profile – H++ Allowance from UKCP18

Ref	Location	X	Y	Annual Chance (1 in x) of Tide Level (metres ODN)																							
				2021						2046						2071						2121					
				2	10	50	100	200	1000	2	10	50	100	200	1000	2	10	50	100	200	1000	2	10	50	100	200	1000
HU_0_013	**Winterton**	494381	424469	5.01	5.28	5.57	5.71	5.88	6.10	5.37	5.63	5.88	5.99	6.11	6.28	5.94	6.10	6.25	6.31	6.38	6.50	6.85	6.96	7.09	7.16	7.23	7.40
HU_0_017	**Ferriby**	497698	422893	4.96	5.22	5.51	5.65	5.82	6.06	5.31	5.57	5.84	5.94	6.07	6.26	5.89	6.07	6.24	6.31	6.39	6.52	6.88	7.00	7.15	7.22	7.30	7.47
HU_0_022	**Humber Bridge**	502336	424388	4.84	5.11	5.40	5.53	5.70	5.97	5.20	5.46	5.73	5.85	5.98	6.19	5.79	5.99	6.18	6.25	6.34	6.52	6.88	7.02	7.20	7.28	7.36	7.55
HU_0_026	**Barrow Haven**	506176	425059	4.73	4.99	5.29	5.42	5.59	5.87	5.09	5.35	5.63	5.74	5.88	6.11	5.69	5.90	6.10	6.18	6.27	6.46	6.88	7.03	7.23	7.32	7.41	7.61
HU_0_027	**New Holland**	507322	425442	4.70	4.97	5.26	5.40	5.56	5.85	5.06	5.33	5.61	5.72	5.86	6.09	5.67	5.88	6.08	6.17	6.26	6.45	6.88	7.03	7.24	7.33	7.42	7.63
HU_0_032	**Goxhill**	512120	427621	4.58	4.85	5.14	5.28	5.44	5.74	4.94	5.20	5.49	5.61	5.76	6.01	5.56	5.78	6.00	6.10	6.20	6.38	6.86	7.01	7.24	7.33	7.43	7.66
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HU_0_044	**South Killingholme**	519538	418746	4.33	4.59	4.87	5.00	5.16	5.48	4.68	4.94	5.22	5.35	5.50	5.80	5.29	5.54	5.80	5.91	6.04	6.27	6.75	6.95	7.21	7.30	7.41	7.67
For **Immingham** and downstream refer to east coast levels page																											

NOTES FOR THE HUMBER LEVELS:

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- *The levels for Immingham are taken from the 2018 Coastal Flood Boundary dataset.

Customer services line: 03708 506 506
Calls to 03 numbers cost the same as calls to standard geographic numbers
(i.e. numbers beginning with 01 or 02)

Email: enquiries@environment-agency.gov.uk
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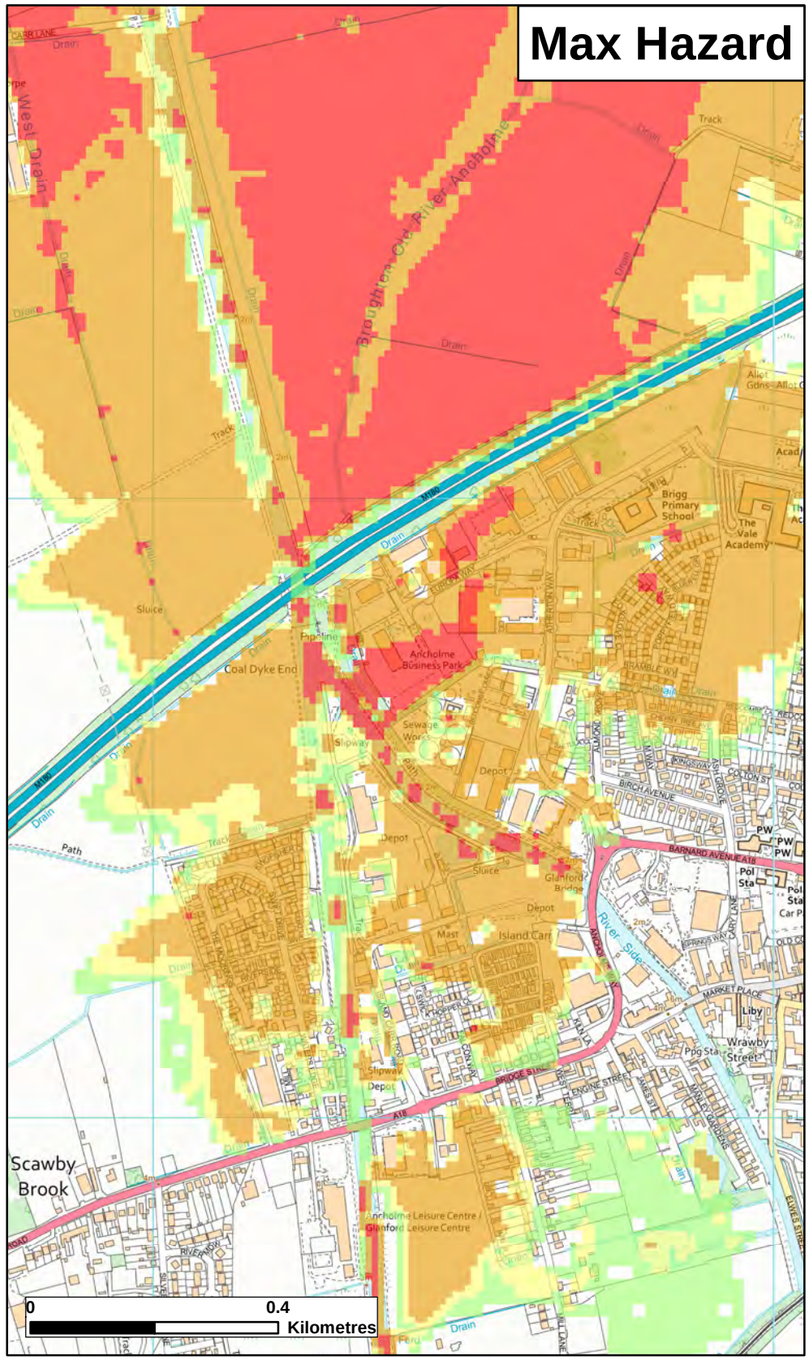
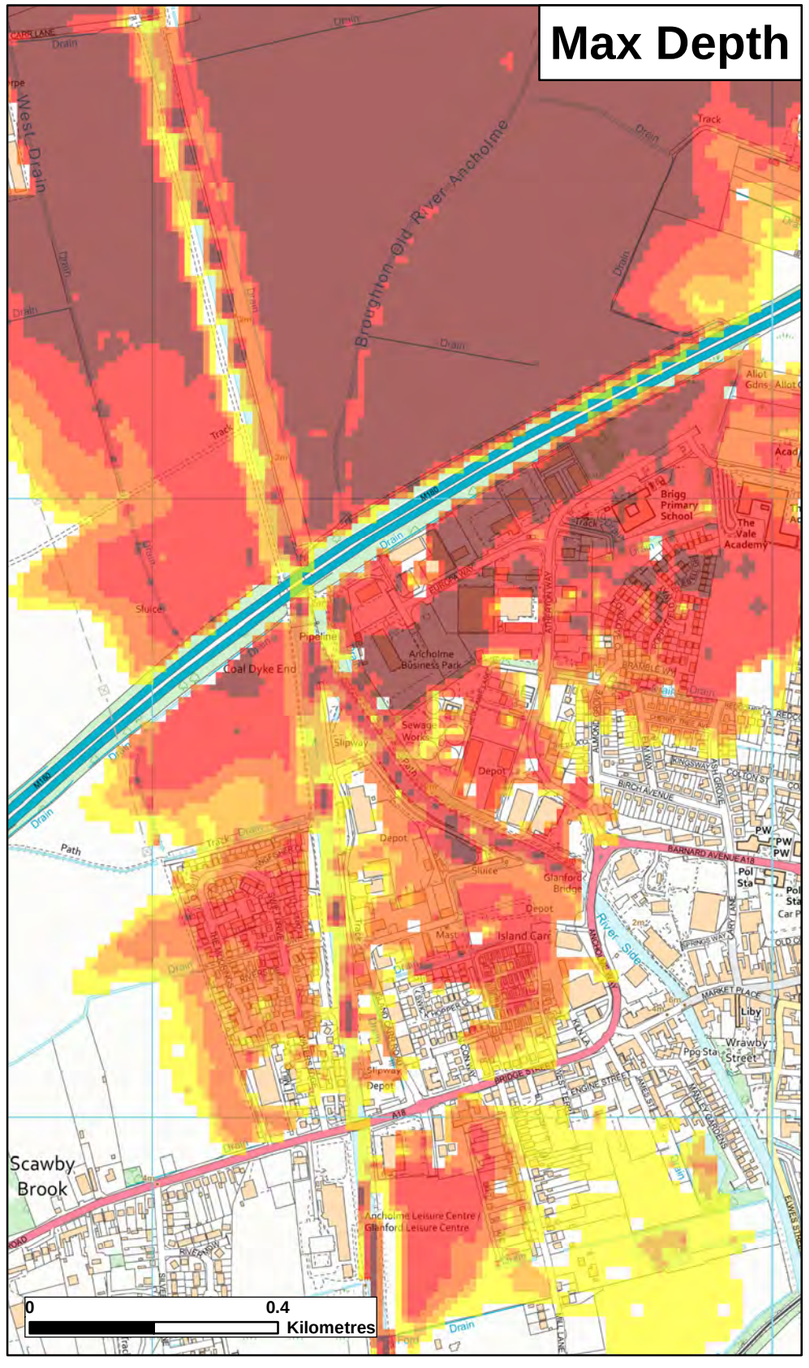
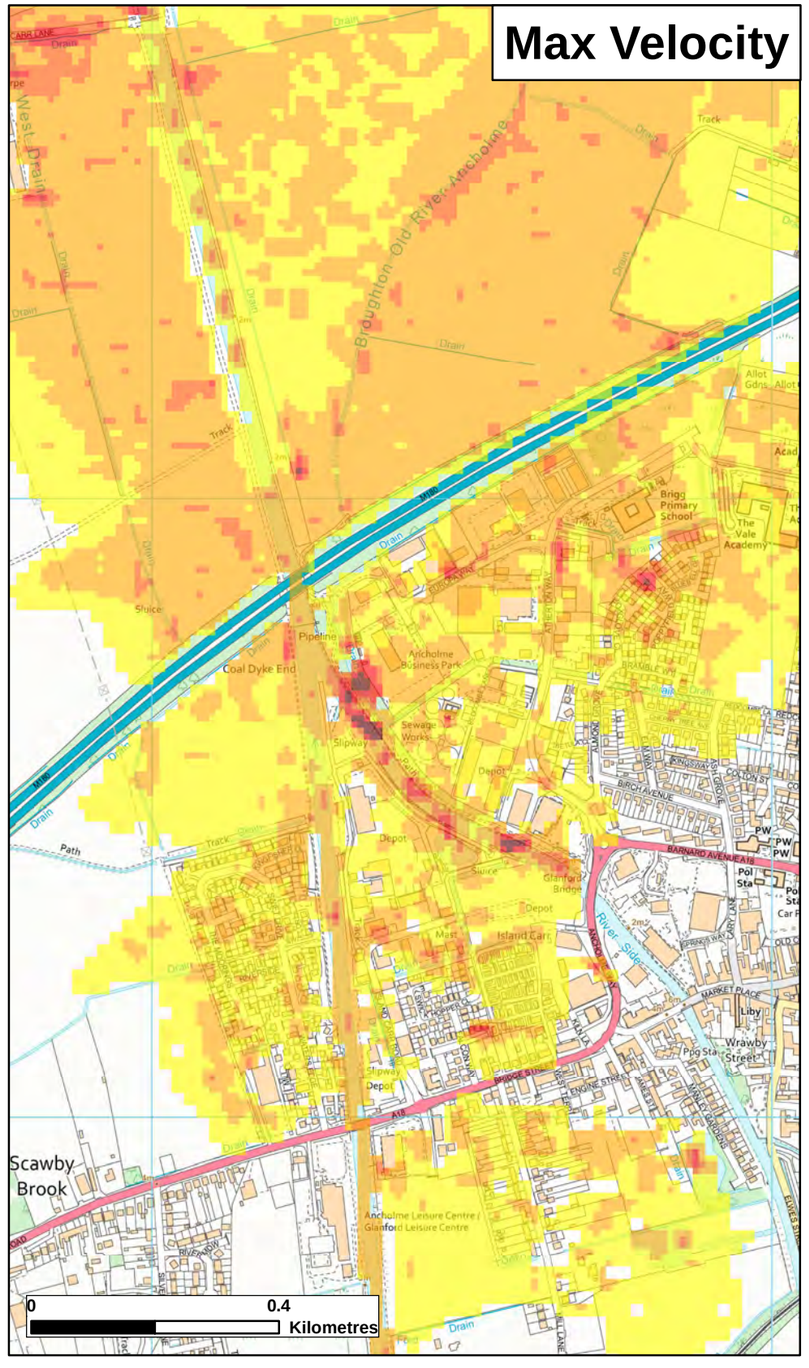






Max Hazard
(Flood Risk to People : FD2320)

- Less than 0.75 (Low Hazard)
- Between 0.75 and 1.25 (Danger for Some)
- Between 1.25 and 2.0 (Danger for Most)
- Greater than 2.0 (Danger for All)

Max Depth (m)

- 0 - 0.25
- 0.25 - 0.50
- 0.50 - 1.0
- 1.0 - 1.6
- 1.6 +

Max Velocity (m/s)

- 0 - 0.3
- 0.3 - 1.0
- 1.0 - 1.5
- 1.5 - 2.5
- 2.5 +

Date Printed	December 2025	Scenario year	2115	Scenario Annual Chance	0.5% (1 in 200)	EIR Number	EIR2025-43381

The map is based on computer modelling of simulated overtopping of the main coastal defences for specific tidal scenarios. It does not include overtopping along the following tidal rivers which are currently being investigated: Witham Haven (upstream of Hobhole), and Welland (upstream of Fosdyke Bridge)

The map only considers the consequences of overtopping of the defences, and does not show the possible consequences of breaches of the tidal defences. Separate maps of the flood extent from just breaching of the defences are available.

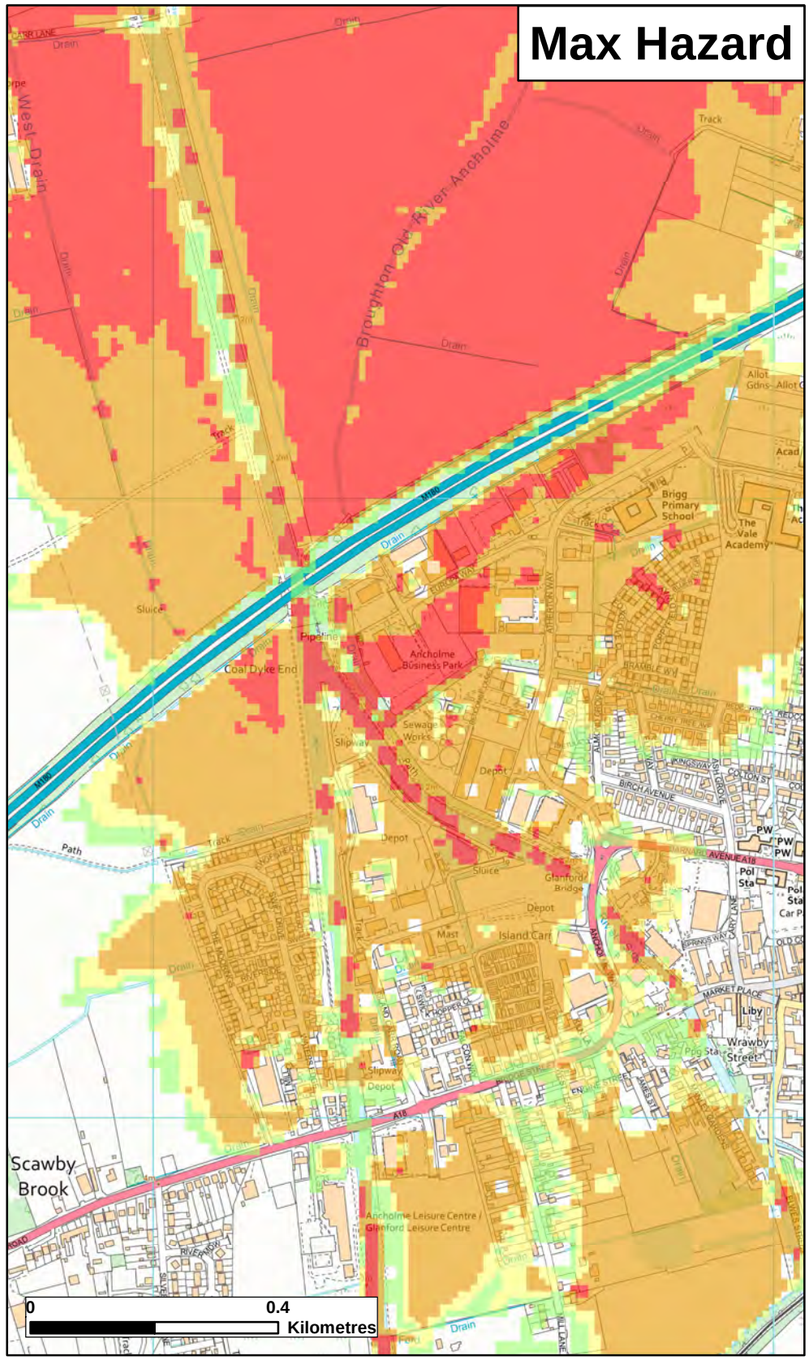
For future climate change scenarios it is assumed that defences remain at 2006 heights.

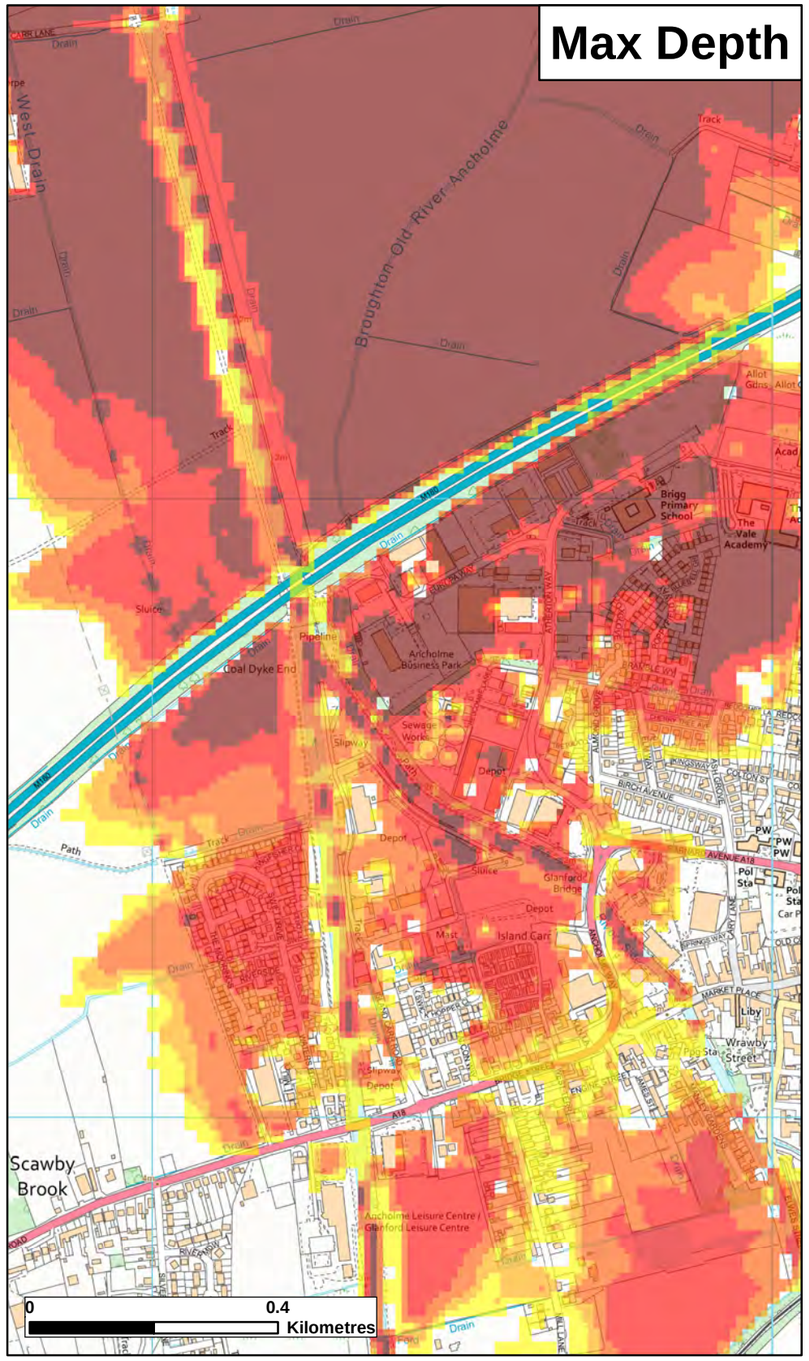
These maps do not replace the flood zone maps used in the National Planning Policy Framework (NPPF)

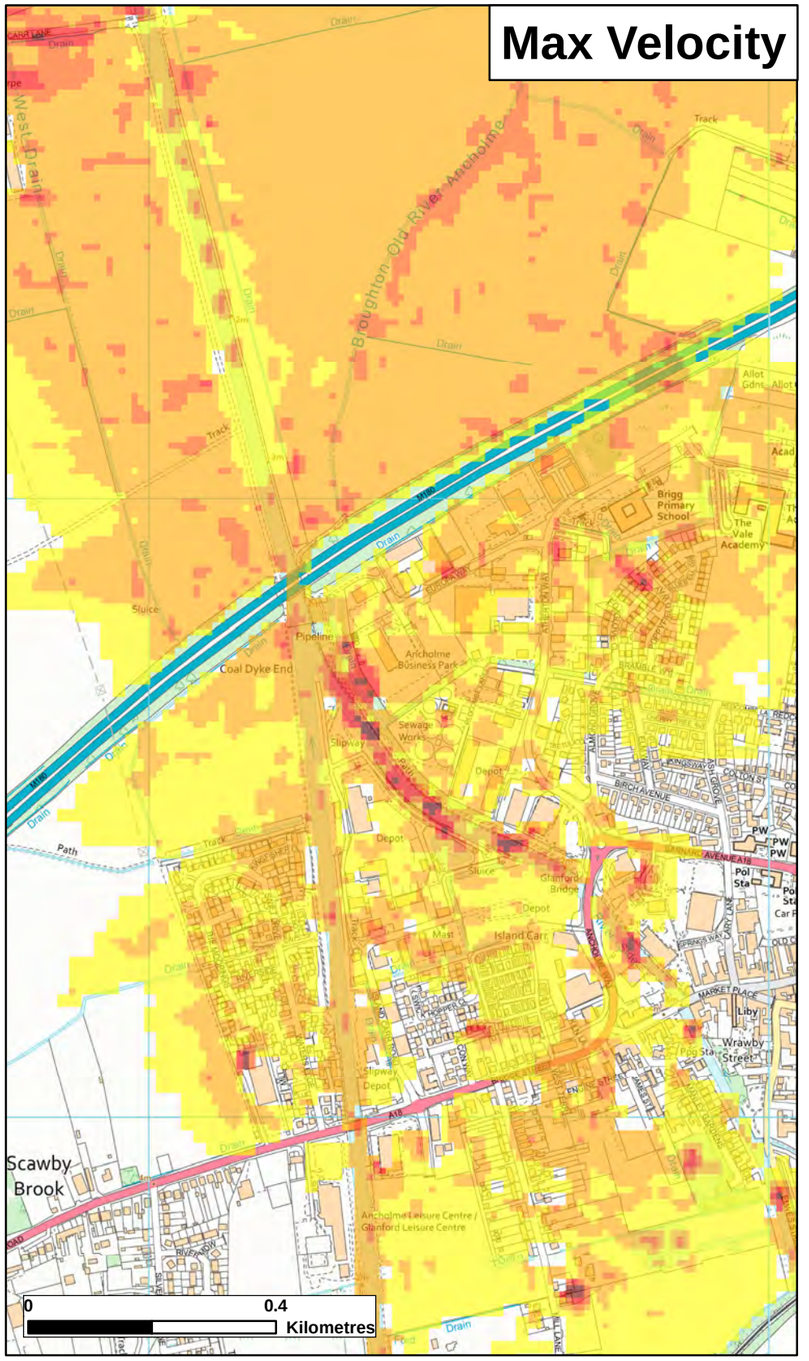
Environment Agency

Lincolnshire and Northamptonshire Overtopping Hazard Mapping

Map Centred on SE 99406 07707







Max Hazard
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- Less than 0.75 (Low Hazard)
- Between 0.75 and 1.25 (Danger for Some)
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- Greater than 2.0 (Danger for All)

Max Depth (m)

- 0 - 0.25
- 0.25 - 0.50
- 0.50 - 1.0
- 1.0 - 1.6
- 1.6 +

Max Velocity (m/s)

- 0 - 0.3
- 0.3 - 1.0
- 1.0 - 1.5
- 1.5 - 2.5
- 2.5 +

Date Printed	December 2025	Scenario year	2115	Scenario Annual Chance	0.1% (1 in 1000)	EIR Number	EIR2025-43381

The map is based on computer modelling of simulated overtopping of the main coastal defences for specific tidal scenarios. It does not include overtopping along the following tidal rivers which are currently being investigated: Witham Haven (upstream of Hobhole), and Welland (upstream of Fosdyke Bridge)

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