

Flood risk assessment data



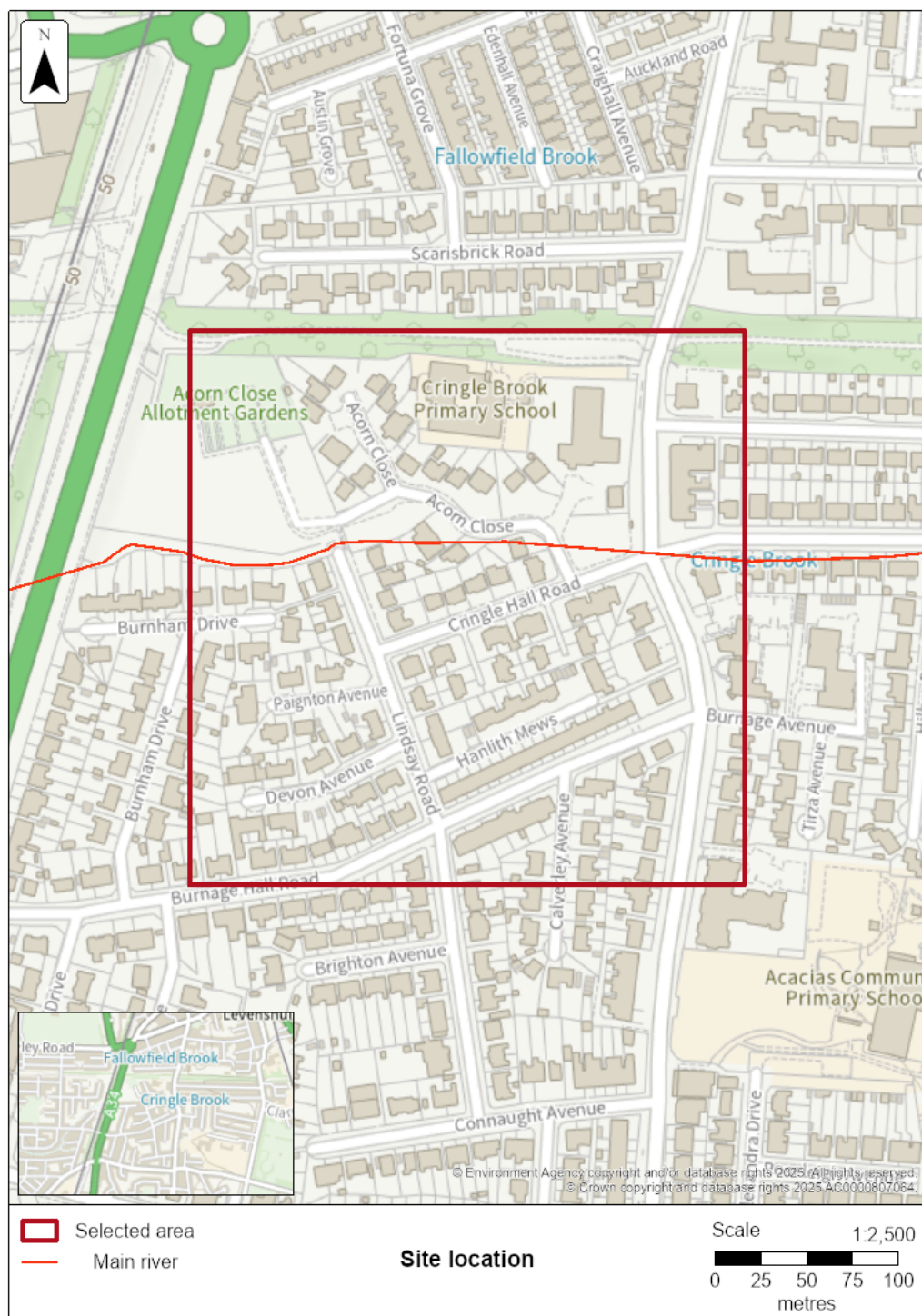
Location of site: 386696 / 393627 (shown as easting and northing coordinates)

Document created on: 16 June 2025

This information was previously known as a product 4.

Customer reference number: CY8ET8MR44GD

Map showing the location that flood risk assessment data has been requested for.



How to use this information

You can use this information as part of a flood risk assessment for a planning application. To do this, you should include it in the appendix of your flood risk assessment.

We recommend that you work with a flood risk consultant to get your flood risk assessment.

Included in this document

In this document you'll find:

- how to find information about surface water and other sources of flooding
- information on the models used
- definitions for the terminology used throughout
- flood map for planning (rivers and the sea)
- past floods
- flood defences and attributes
- information to help you assess if there is a reduced flood risk from rivers and the sea because of defences
- modelled data
- information about strategic flood risk assessments
- information about this data
- information about flood risk activity permits
- help and advice

Surface water and other sources of flooding

When using the surface water map on the [check your long term flood risk service](#) the following considerations apply:

- surface water extents are suitable for use in planning
- surface water climate change scenarios may help to inform risk assessments, but the available data fall short of what is required to assess planned development
- surface water depth information should not be used for planning purposes

To find out about other factors that might affect the flood risk of this location, you should also check:

- [reservoir flood risk](#)
- groundwater flood risk - you could use the [British Geological Survey groundwater flooding data](#), [groundwater: current status and flood risk](#) and the guide on [mining and groundwater constraints for development](#) - further information may be available from the lead local flood authority (LLFA)
- your local planning authority's SFRA, which includes future flood risk

Your Lead Local Flood Authority is Manchester District.

For information about sewer flooding, contact the relevant water company for the area.

About the models used

Model name: Cringle Black Brook 2017

Scenario(s): Defended fluvial, defences removed fluvial, defended climate change fluvial, defences removed climate change fluvial

Date: 1 April 2018

This model contains the most relevant data for your area of interest.

Terminology used

Annual exceedance probability (AEP)

This refers to the probability of a flood event occurring in any year. The probability is expressed as a percentage. For example, a large flood which is calculated to have a 1% chance of occurring in any one year, is described as 1% AEP.

Metres above ordnance datum (mAOD)

All flood levels are given in metres above ordnance datum which is defined as the mean sea level at Newlyn, Cornwall.

Flood map for planning (rivers and the sea)

Your selected location is in flood zone 3.

Flood zone 3 shows the area at risk of flooding for an undefended flood event with a:

- 0.5% or greater probability of occurring in any year for flooding from the sea
- 1% or greater probability of occurring in any year for fluvial (river) flooding

Flood zone 2 shows the area at risk of flooding for an undefended flood event with:

- between a 0.1% and 0.5% probability of occurring in any year for flooding from the sea
- between a 0.1% and 1% probability of occurring in any year for fluvial (river) flooding

It's important to remember that the flood zones on this map:

- refer to the land at risk of flooding and do not refer to individual properties
- refer to the probability of river and sea flooding, ignoring the presence of defences
- do not take into account potential impacts of climate change



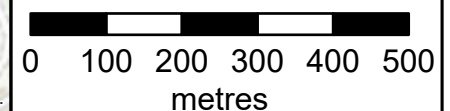
Flood map for planning

Location (easting/northing)
386696/393627

Scale
1:10,000

Created
16 Jun 2025

-  Selected area
-  Main river
-  Flood defence
-  Flood Zone 3
-  Flood Zone 2



Flood defences and attributes

The flood defences map shows the location of the flood defences present.

The flood defences data table shows the type of defences, their condition and the standard of protection. It shows the height above sea level of the top of the flood defence (crest level). The height is in mAOD which is the metres above the mean sea level at Newlyn, Cornwall.

It's important to remember that flood defence data may not be updated on a regular basis. The information here is based on the best available data.

Use this information:

- to help you assess if there is a reduced flood risk for this location because of defences
- with any information in the modelled data section to find out the impact of defences on flood risk



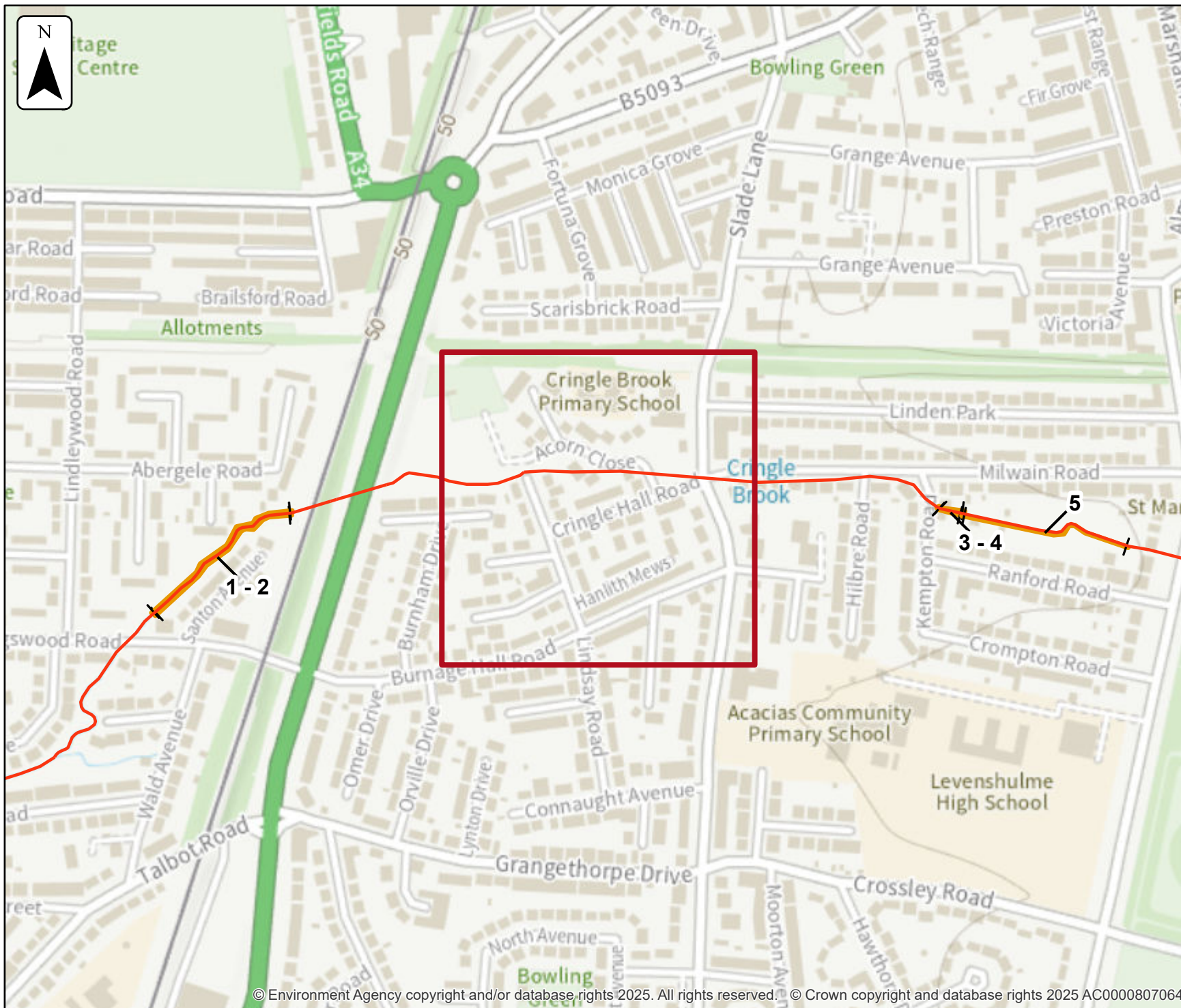
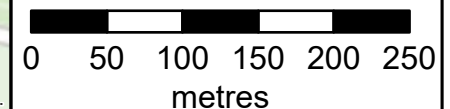
Flood defences

Location (easting/northing)
386696/393627

Scale
1:5,000

Created
16 Jun 2025

-  Selected area
-  Main river
-  Flood defence



Flood defences data

Label	Asset ID	Asset Type	Standard of protection (years)	Current condition	Downstream actual crest level (mAOD)	Upstream actual crest level (mAOD)	Effective crest level (mAOD)
1	7427	Engineered High Ground	100	Poor	40.24	44.26	
2	9636	Engineered High Ground	100	Poor	43.83	41.26	
3	71686	Engineered High Ground	100	Fair	47.89	48.71	
4	58923	Engineered High Ground	100	Fair	47.70	48.55	
5	7430	Engineered High Ground	100		50.40	47.83	

Any blank cells show where a particular value has not been recorded for an asset.

Modelled data

This section provides details of different scenarios we have modelled and includes the following (where available):

- outline maps showing the area at risk from flooding in different modelled scenarios
- modelled node point map(s) showing the points used to get the data to model the scenarios and table(s) providing details of the flood risk for different return periods
- map(s) showing the approximate water levels for the return period with the largest flood extent for a scenario and table(s) of sample points providing details of the flood risk for different return periods

Climate change

The climate change data included in the models may not include the latest [flood risk assessment climate change allowances](#). Where the new allowances are not available you will need to consider this data and factor in the new allowances to demonstrate the development will be safe from flooding.

The Environment Agency will incorporate the new allowances into future modelling studies. For now, it's your responsibility to demonstrate that new developments will be safe in flood risk terms for their lifetime.

Modelled scenarios

The following scenarios are included:

- Defended modelled fluvial: risk of flooding from rivers where there are flood defences
- Defences removed modelled fluvial: risk of flooding from rivers where flood defences have been removed
- Defended climate change modelled fluvial: risk of flooding from rivers where there are flood defences, including estimated impact of climate change
- Defences removed climate change modelled fluvial: risk of flooding from rivers where flood defences have been removed, including estimated impact of climate change



Defences removed climate change modelled fluvial extent

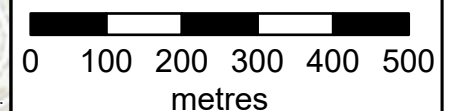
Location (easting/northing)
386696/393627

Scale Created
1:10,000 16 Jun 2025

Model name
**Cringle Black Brook
2017**

-  Selected area
-  Main river
- Modelled flood extent
 -  1% AEP (+30%)
 -  1% AEP (+35%)
 -  1% AEP (+70%)
 -  0.1% AEP (+30%)

Flood extents may not be
visible where they overlap
other return periods





Defences removed modelled fluvial extent

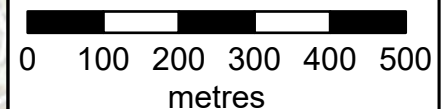
Location (easting/northing)
386696/393627

Scale Created
1:10,000 16 Jun 2025

Model name
Cringle Black Brook 2017

-  Selected area
-  Main river
- Modelled flood extent**
-  5% AEP
-  2% AEP
-  1.33% AEP
-  1% AEP
-  0.5% AEP
-  0.1% AEP

Flood extents may not be
visible where they overlap
other return periods





Defended climate change modelled fluvial extent

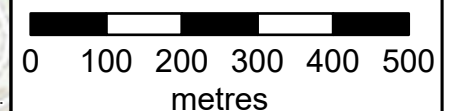
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386696/393627

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Model name
**Cringle Black Brook
2017**

-  Selected area
-  Main river
- Modelled flood extent
-  1% AEP (+30%)
 -  1% AEP (+35%)
 -  1% AEP (+70%)
 -  0.1% AEP (+30%)

Flood extents may not be
visible where they overlap
other return periods





Defended modelled fluvial extent

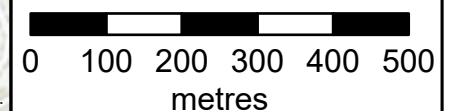
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Model name
Cringle Black Brook 2017

-  Selected area
-  Main river
- Modelled flood extent
-  5% AEP
 -  2% AEP
 -  1.33% AEP
 -  1% AEP
 -  0.5% AEP
 -  0.1% AEP

Flood extents may not be visible where they overlap other return periods





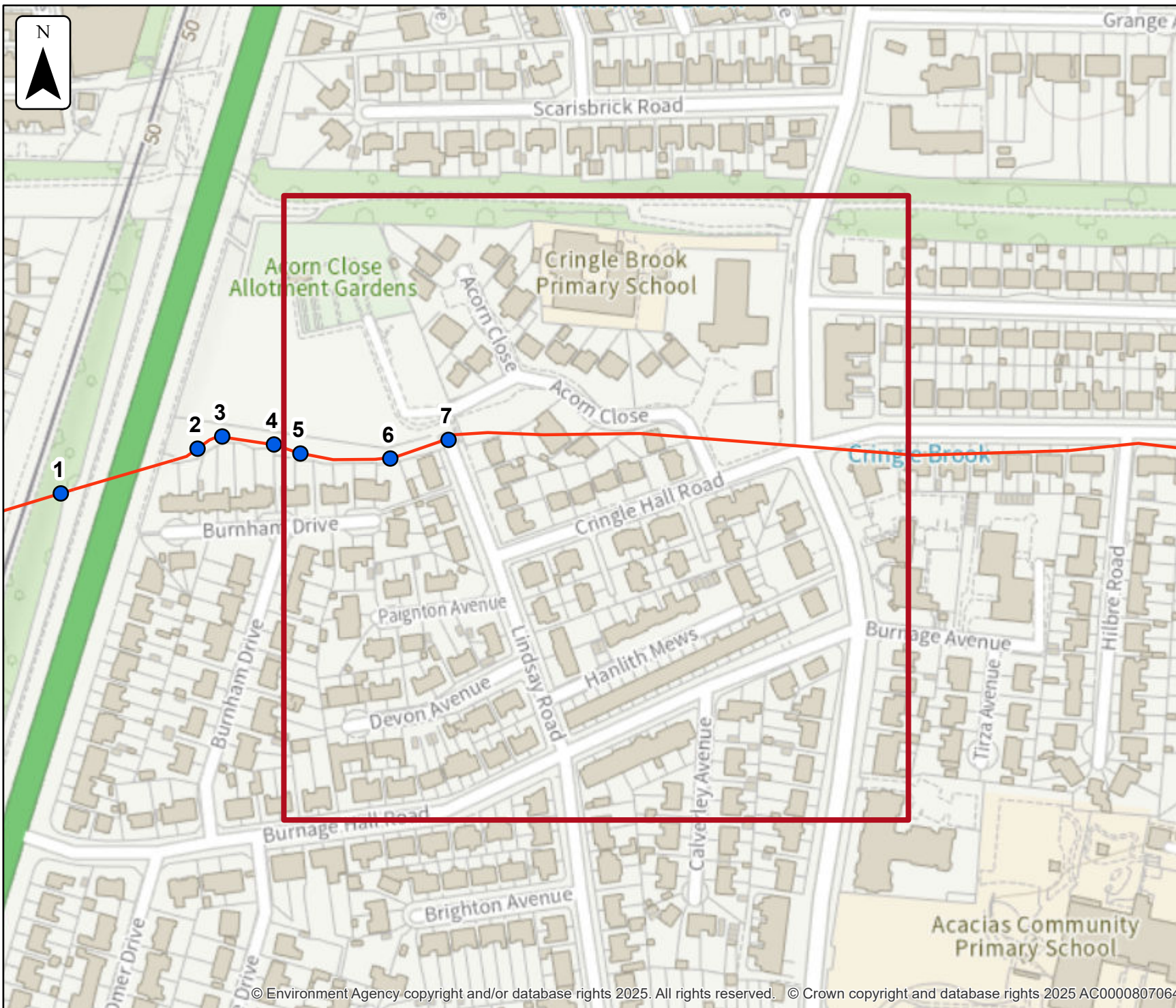
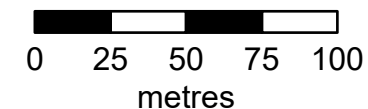
Defences removed climate change modelled fluvial node locations

Location (easting/northing)
386696/393627

Scale Created
1:2,500 16 Jun 2025

Model name
**Cringle Black Brook
2017**

-  Selected area
-  Modelled location
-  Main river



Modelled node locations data

Defences removed climate change

Label	Modelled location ID	Easting	Northing	1% AEP (+30%)	1% AEP (+35%)	1% AEP (+70%)	0.1% AEP (+30%)
				Level	Level	Level	Level
1	1440031	386436	393634	43.08	43.10	43.19	43.29
2	1440044	386502	393656	44.59	44.64	44.86	45.10
3	1440129	386514	393662	44.59	44.65	44.87	45.10
4	1440101	386539	393658	44.59	44.65	44.87	45.10
5	1440078	386552	393653	44.59	44.65	44.87	45.10
6	1440159	386596	393651	44.59	44.64	44.86	45.10
7	1440117	386624	393660	44.59	44.65	44.87	45.13

Data in this table comes from the Cringle Black Brook 2017 model.

Level values are shown in mAOD, and flow values are shown in cubic metres per second.

Any blank cells show where a particular scenario has not been modelled for this location.

Defences removed climate change

Label	Modelled location ID	Easting	Northing	1% AEP (+30%)	1% AEP (+35%)	1% AEP (+70%)	0.1% AEP (+30%)
				Flow	Flow	Flow	Flow
1	1440031	386436	393634	4.53	4.58	4.77	4.96
2	1440044	386502	393656	3.86	3.95	4.73	6.55
3	1440129	386514	393662	3.96	4.07	4.68	6.07
4	1440101	386539	393658	4.56	4.65	5.31	6.79
5	1440078	386552	393653	4.74	4.88	5.58	7.12
6	1440159	386596	393651	4.96	5.13	5.85	7.16
7	1440117	386624	393660	4.81	4.85	5.03	5.16

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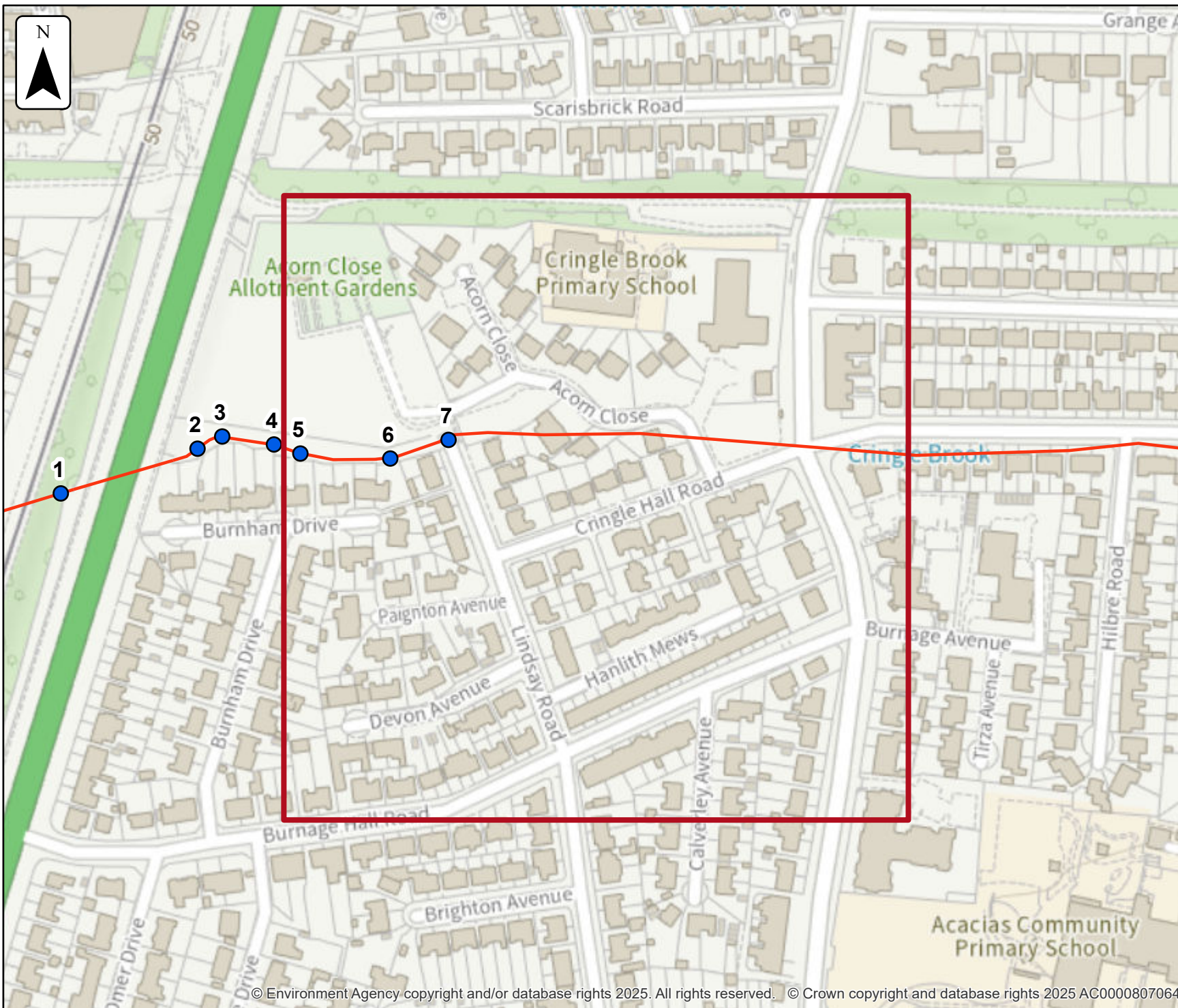
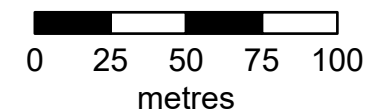
Defences removed modelled fluvial node locations

Location (easting/northing)
386696/393627

Scale Created
1:2,500 16 Jun 2025

Model name
**Cringle Black Brook
2017**

-  Selected area
-  Modelled location
-  Main river



Modelled node locations data

Defences removed

Label	Modelled location ID	Easting	Northing	50% AEP	20% AEP	10% AEP	5% AEP	4% AEP	3.33% AEP	2% AEP	1.33% AEP	1% AEP	0.5% AEP	0.1% AEP
				Level	Level	Level	Level	Level	Level	Level	Level	Level	Level	Level
1	1440031	386436	393634	42.19	42.32	42.53	42.64	42.66	42.69	42.79	42.86	42.90	43.01	43.24
2	1440044	386502	393656	42.53	42.78	43.29	43.56	43.63	43.70	43.92	44.08	44.18	44.41	44.98
3	1440129	386514	393662	42.57	42.82	43.30	43.57	43.64	43.71	43.91	44.08	44.17	44.41	44.99
4	1440101	386539	393658	42.67	42.89	43.34	43.58	43.64	43.70	43.92	44.08	44.18	44.41	44.99
5	1440078	386552	393653	42.72	42.92	43.35	43.59	43.64	43.72	43.92	44.08	44.18	44.41	44.99
6	1440159	386596	393651	42.87	43.04	43.40	43.62	43.67	43.74	43.93	44.09	44.18	44.41	44.99
7	1440117	386624	393660	43.05	43.17	43.44	43.64	43.69	43.75	43.94	44.09	44.18	44.41	45.0

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Defences removed

Label	Modelled location ID	Easting	Northing	50% AEP	20% AEP	10% AEP	5% AEP	4% AEP	3.33% AEP	2% AEP	1.33% AEP	1% AEP	0.5% AEP	0.1% AEP
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2	1440044	386502	393656	2.01	2.56	3.17	3.20	3.20	3.18	3.21	3.20	3.19	3.74	5.56
3	1440129	386514	393662	2.01	2.56	3.14	3.23	3.30	3.30	3.30	3.34	4.0	3.89	5.33
4	1440101	386539	393658	2.01	2.57	3.24	3.62	3.74	3.73	3.83	4.0	4.0	4.48	5.99
5	1440078	386552	393653	2.01	2.57	3.25	3.68	3.74	3.87	4.05	4.15	4.17	4.66	6.27
6	1440159	386596	393651	1.87	2.41	3.0	3.40	3.49	3.60	3.91	4.18	4.33	4.67	6.39
7	1440117	386624	393660	1.87	2.41	3.01	3.40	3.49	3.60	3.91	4.18	4.34	4.68	5.12

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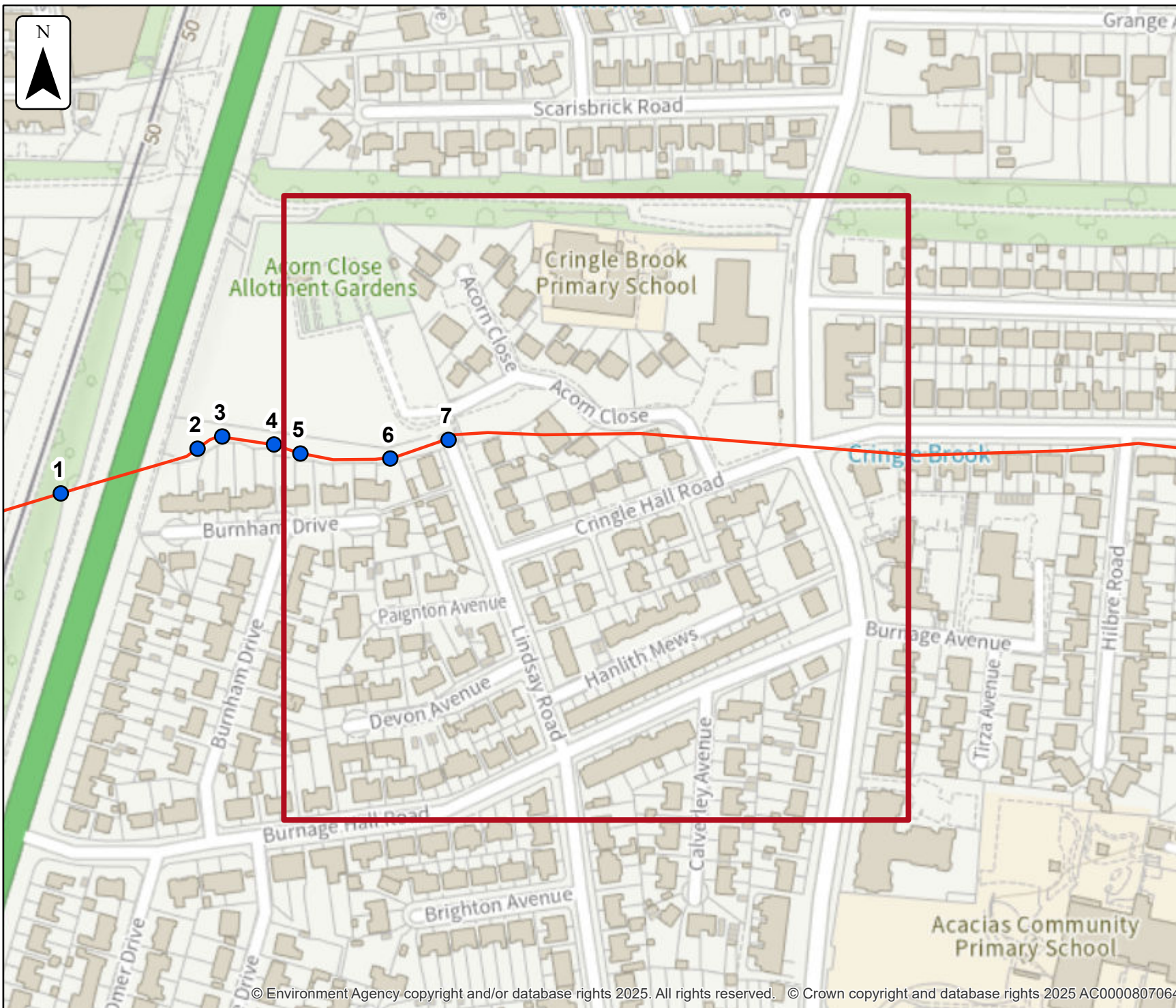
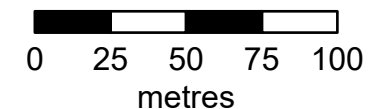
Defended climate change modelled fluvial node locations

Location (easting/northing)
386696/393627

Scale Created
1:2,500 16 Jun 2025

Model name
**Cringle Black Brook
2017**

-  Selected area
-  Modelled location
-  Main river



Modelled node locations data

Defended climate change

Label	Modelled location ID	Easting	Northing	1% AEP (+30%)	1% AEP (+35%)	1% AEP (+70%)	0.1% AEP (+30%)
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Defended climate change

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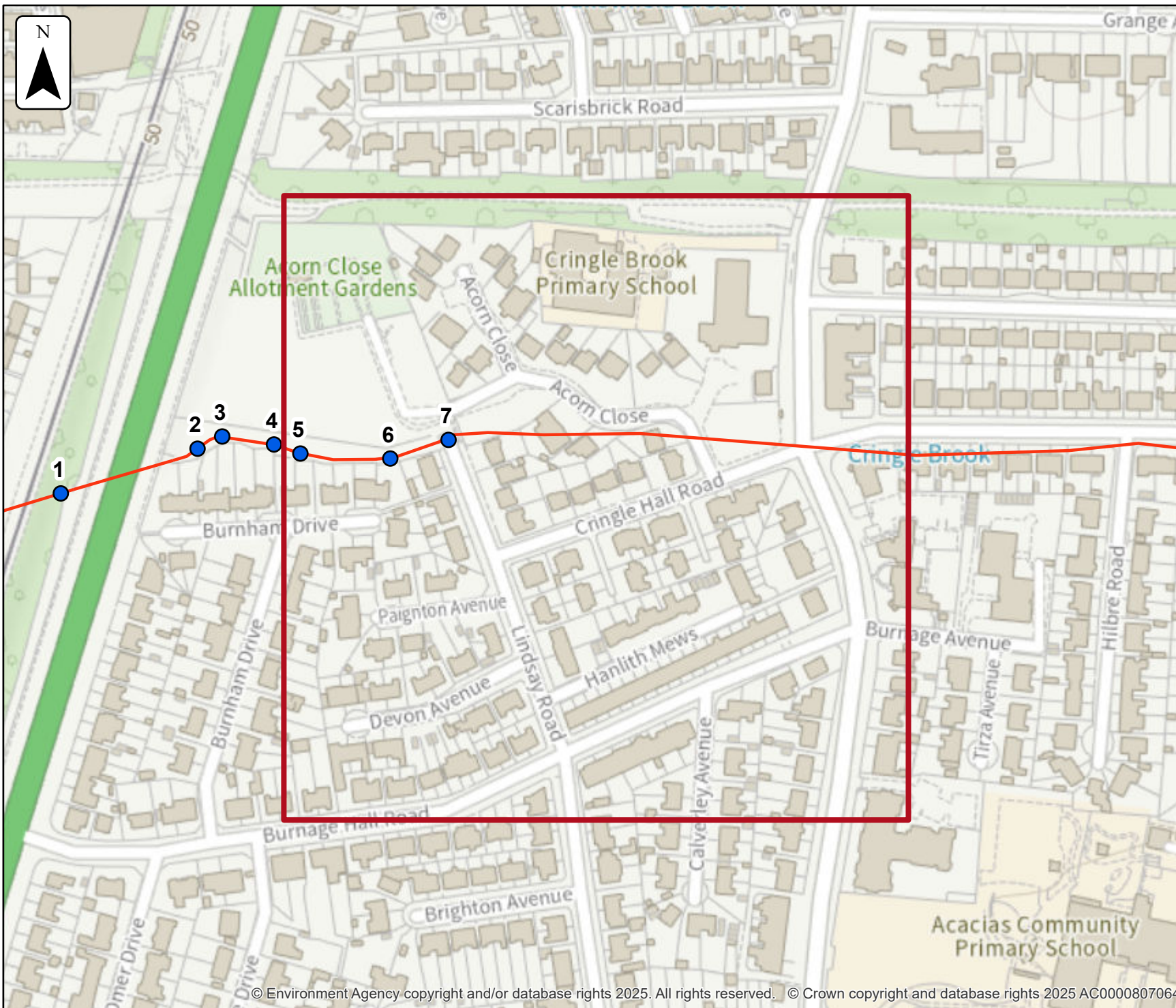
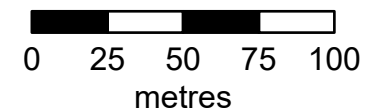
Defended modelled fluvial node locations

Location (easting/northing)
386696/393627

Scale Created
1:2,500 16 Jun 2025

Model name
**Cringle Black Brook
2017**

-  Selected area
-  Modelled location
-  Main river



Modelled node locations data

Defended

Label	Modelled location ID	Easting	Northing	50% AEP	20% AEP	10% AEP	5% AEP	4% AEP	3.33% AEP	2% AEP	1.33% AEP	1% AEP	0.5% AEP	0.1% AEP
				Level	Level	Level	Level	Level	Level	Level	Level	Level	Level	Level
1	1440031	386436	393634	42.19	42.32	42.53	42.64	42.66	42.69	42.79	42.86	42.90	43.01	43.24
2	1440044	386502	393656	42.53	42.78	43.29	43.56	43.63	43.70	43.92	44.08	44.18	44.41	44.98
3	1440129	386514	393662	42.57	42.82	43.30	43.57	43.64	43.71	43.91	44.08	44.17	44.41	44.99
4	1440101	386539	393658	42.67	42.89	43.34	43.58	43.64	43.70	43.92	44.08	44.18	44.41	44.99
5	1440078	386552	393653	42.72	42.92	43.35	43.59	43.64	43.72	43.92	44.08	44.18	44.41	44.99
6	1440159	386596	393651	42.87	43.04	43.40	43.62	43.67	43.74	43.93	44.09	44.18	44.41	44.99
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Level values are shown in mAOD, and flow values are shown in cubic metres per second.

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Defended

Label	Modelled location ID	Easting	Northing	50% AEP	20% AEP	10% AEP	5% AEP	4% AEP	3.33% AEP	2% AEP	1.33% AEP	1% AEP	0.5% AEP	0.1% AEP
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1	1440031	386436	393634	2.01	2.56	3.23	3.54	3.62	3.70	3.91	4.08	4.16	4.37	4.87
2	1440044	386502	393656	2.01	2.56	3.17	3.20	3.20	3.18	3.21	3.20	3.19	3.74	5.56
3	1440129	386514	393662	2.01	2.56	3.14	3.23	3.30	3.30	3.30	3.34	4.0	3.89	5.33
4	1440101	386539	393658	2.01	2.57	3.24	3.62	3.74	3.73	3.83	4.0	4.0	4.48	5.99
5	1440078	386552	393653	2.01	2.57	3.25	3.68	3.74	3.87	4.05	4.15	4.17	4.66	6.27
6	1440159	386596	393651	1.87	2.41	3.0	3.40	3.49	3.60	3.91	4.18	4.33	4.67	6.39
7	1440117	386624	393660	1.87	2.41	3.01	3.40	3.49	3.60	3.91	4.18	4.34	4.68	5.12

Data in this table comes from the Cringle Black Brook 2017 model.

Level values are shown in mAOD, and flow values are shown in cubic metres per second.

Any blank cells show where a particular scenario has not been modelled for this location.



Defended modelled fluvial extent and height

Location (easting/northing)
386696/393627

Scale Created
1:2,500 16 Jun 2025

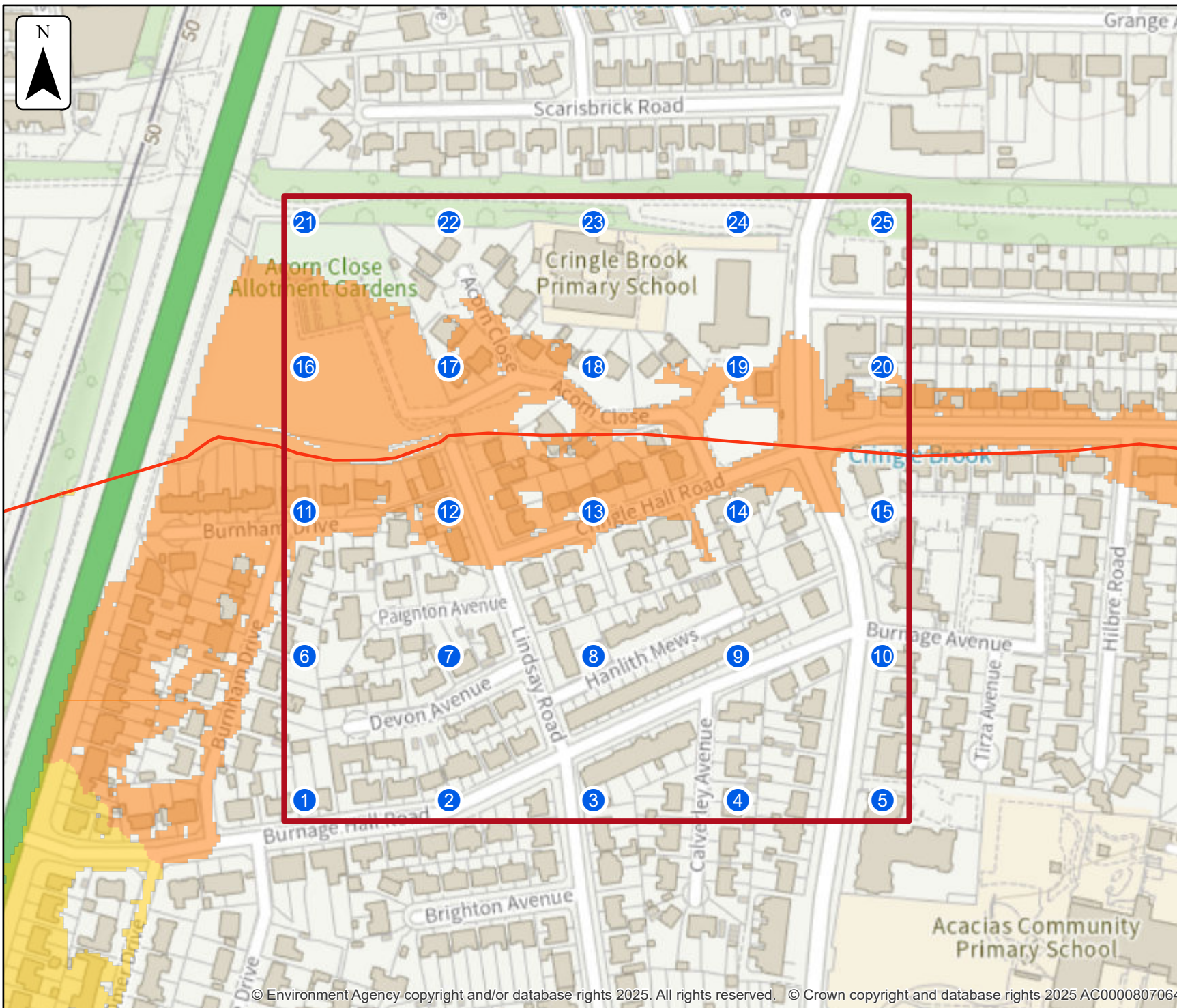
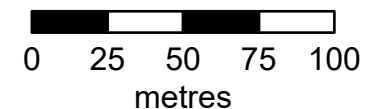
Model name
**Cringle Black Brook
2017**

-  Selected area
-  Main river

Modelled 2D grid
Water level in mAOD

-  0 - 6.25
-  6.25 - 12.5
-  12.5 - 18.75
-  18.75 - 25.0
-  25.0 - 31.25
-  31.25 - 37.5
-  37.5 - 43.75
-  43.75 - 50.0
-  50.0 - 56.25

This map shows the
0.1% AEP height data



Defended

[illegible]

[illegible]

Label	Easting	Northing	50% AEP	20% AEP	10% AEP	5% AEP	4% AEP	3.33% AEP	2% AEP	1.33% AEP	1% AEP	0.5% AEP	0.1% AEP
			Height	Height	Height	Height	Height	Height	Height	Height	Height	Height	Height
25	386834	393766	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
Max value in selected area:			43.05	43.17	43.44	43.64	43.69	43.75	43.94	44.09	44.19	46.61	46.74

Data in this table comes from the Cringle Black Brook 2017 model. Height values are shown in mAOD, and depth values are shown in metres.

Any blank cells show where a particular scenario has not been modelled for this location.

Cells which contain text 'NoData' for a scenario show that return period has been modelled but there is no flood risk for that return period for that location.

'Max value in selected area' is the deepest depth or highest height at any location within your drawn boundary.

Defended

[illegible]

[illegible]

Label	Easting	Northing	50% AEP	20% AEP	10% AEP	5% AEP	4% AEP	3.33% AEP	2% AEP	1.33% AEP	1% AEP	0.5% AEP	0.1% AEP
			Depth	Depth	Depth	Depth	Depth	Depth	Depth	Depth	Depth	Depth	Depth
25	386834	393766	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
Max value in selected area:			1.91	2.12	2.55	2.79	2.85	2.92	3.12	3.29	3.38	3.61	4.19

Data in this table comes from the Cringle Black Brook 2017 model. Height values are shown in mAOD, and depth values are shown in metres.

Any blank cells show where a particular scenario has not been modelled for this location.

Cells which contain text 'NoData' for a scenario show that return period has been modelled but there is no flood risk for that return period for that location.

'Max value in selected area' is the deepest depth or highest height at any location within your drawn boundary.



Defences removed modelled fluvial extent and height

Location (easting/northing)
386696/393627

Scale Created
1:2,500 16 Jun 2025

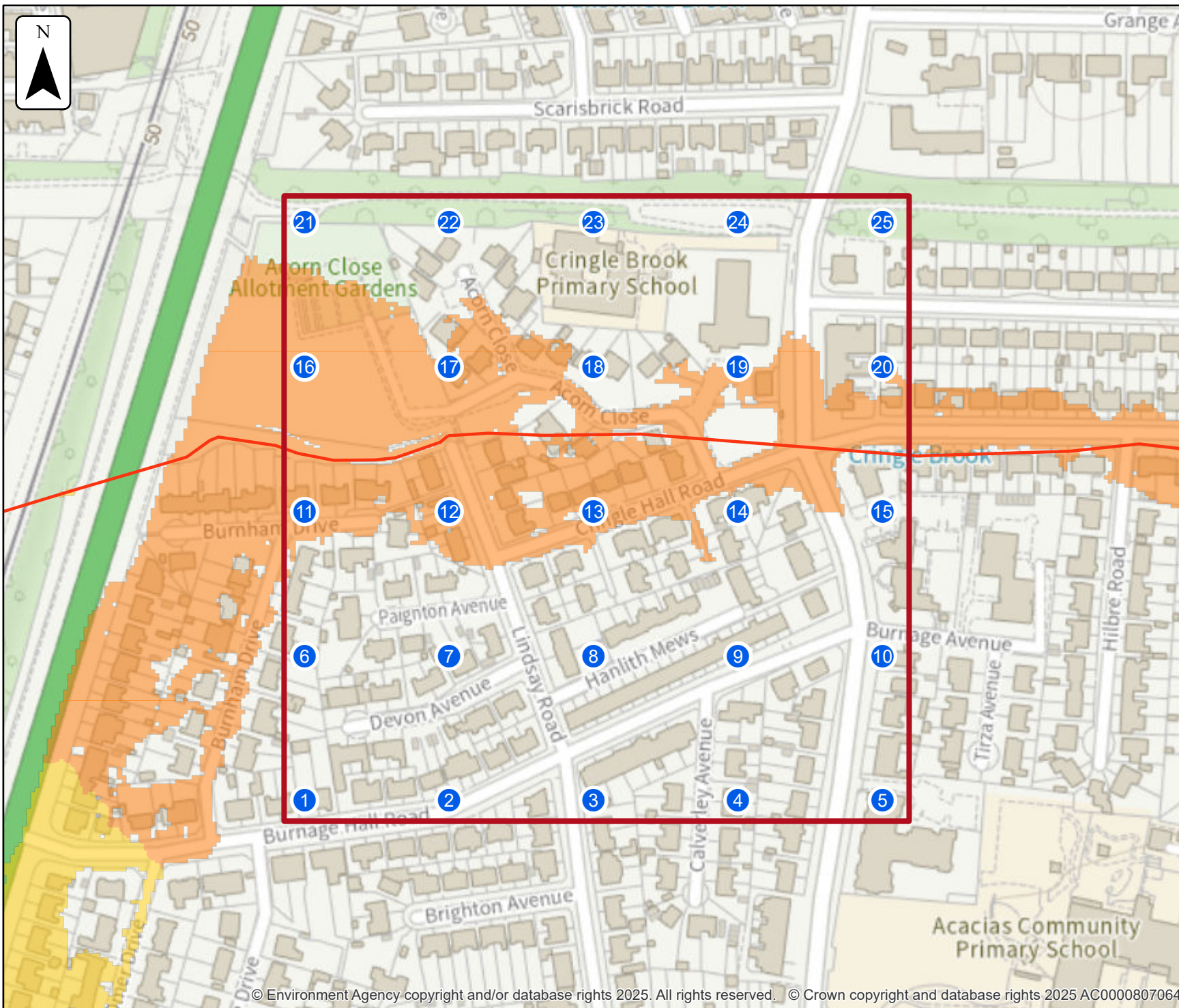
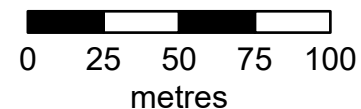
Model name
**Cringle Black Brook
2017**

-  Selected area
-  Main river

Modelled 2D grid
Water level in mAOD

-  0 - 6.25
-  6.25 - 12.5
-  12.5 - 18.75
-  18.75 - 25.0
-  25.0 - 31.25
-  31.25 - 37.5
-  37.5 - 43.75
-  43.75 - 50.0
-  50.0 - 56.25

This map shows the
0.1% AEP height data



Defences removed

Defences removed

[illegible]

Label	Easting	Northing	50% AEP	20% AEP	10% AEP	5% AEP	4% AEP	3.33% AEP	2% AEP	1.33% AEP	1% AEP	0.5% AEP	0.1% AEP
			Height	Height	Height	Height	Height	Height	Height	Height	Height	Height	Height
25	386834	393766	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
Max value in selected area:			43.05	43.17	43.44	43.64	43.69	43.75	43.94	44.09	44.18	46.61	46.74

Data in this table comes from the Cringle Black Brook 2017 model. Height values are shown in mAOD, and depth values are shown in metres.

Any blank cells show where a particular scenario has not been modelled for this location.

Cells which contain text 'NoData' for a scenario show that return period has been modelled but there is no flood risk for that return period for that location.

'Max value in selected area' is the deepest depth or highest height at any location within your drawn boundary.

Defences removed

[illegible]

[illegible]

Label	Easting	Northing	50% AEP	20% AEP	10% AEP	5% AEP	4% AEP	3.33% AEP	2% AEP	1.33% AEP	1% AEP	0.5% AEP	0.1% AEP
			Depth	Depth	Depth	Depth	Depth	Depth	Depth	Depth	Depth	Depth	Depth
25	386834	393766	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
Max value in selected area:			1.91	2.12	2.55	2.79	2.85	2.92	3.12	3.28	3.38	3.61	4.19

Data in this table comes from the Cringle Black Brook 2017 model. Height values are shown in mAOD, and depth values are shown in metres.

Any blank cells show where a particular scenario has not been modelled for this location.

Cells which contain text 'NoData' for a scenario show that return period has been modelled but there is no flood risk for that return period for that location.

'Max value in selected area' is the deepest depth or highest height at any location within your drawn boundary.



Defended climate change modelled fluvial extent and height

Location (easting/northing)
386696/393627

Scale Created
1:2,500 16 Jun 2025

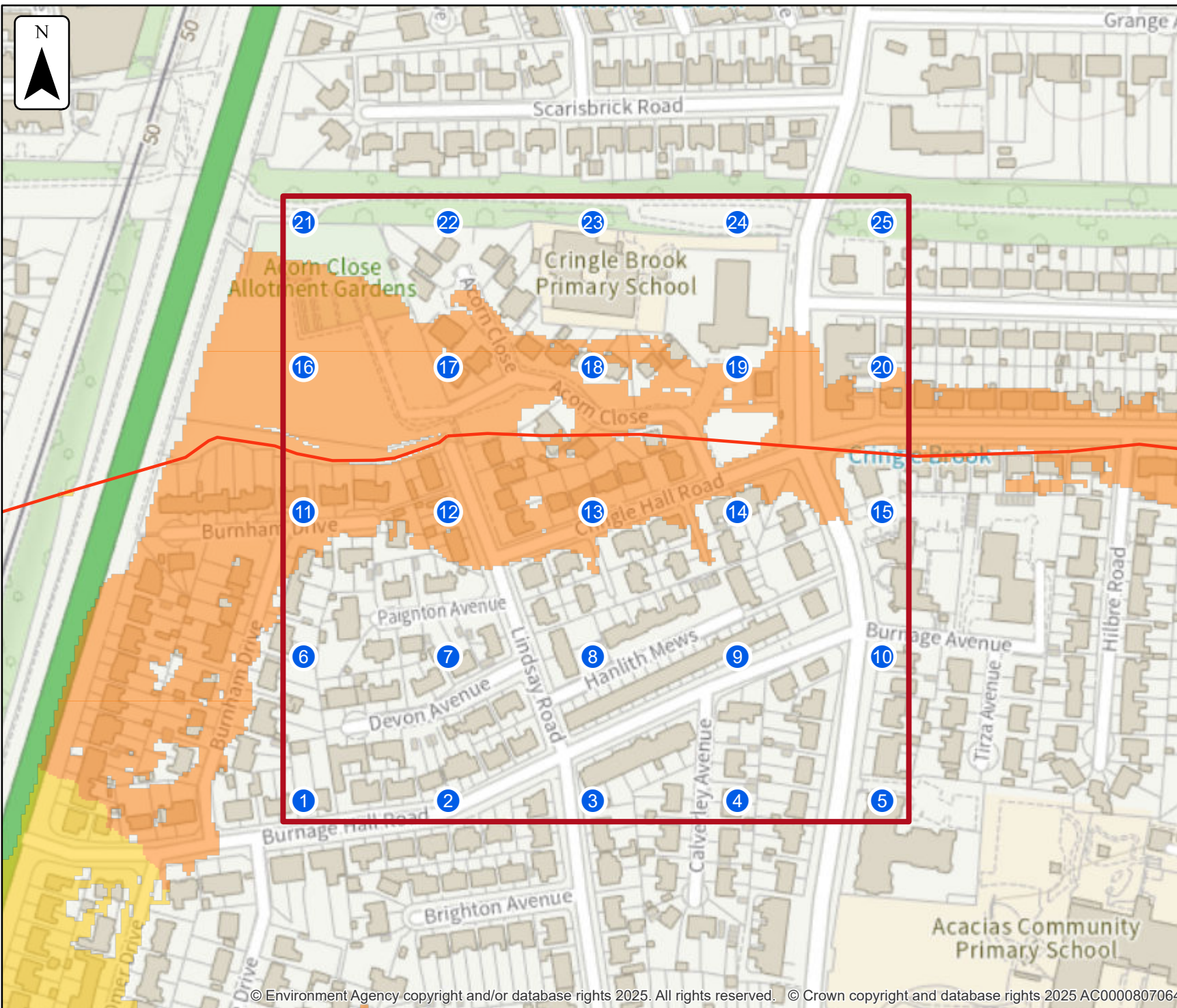
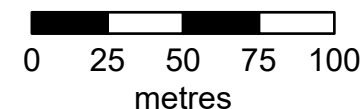
Model name
**Cringle Black Brook
2017**

-  Selected area
-  Main river

Modelled 2D grid
Water level in mAOD

-  0 - 6.25
-  6.25 - 12.5
-  12.5 - 18.75
-  18.75 - 25.0
-  25.0 - 31.25
-  31.25 - 37.5
-  37.5 - 43.75
-  43.75 - 50.0
-  50.0 - 56.25

This map shows the
0.1% AEP +30% height data



Sample point data

Defended climate change

Label	Easting	Northing	1% AEP (+30%)	1% AEP (+35%)	1% AEP (+70%)	0.1% AEP (+30%)
			Height	Height	Height	Height
1	386554	393486	NoData	NoData	NoData	NoData
2	386624	393486	NoData	NoData	NoData	NoData
3	386694	393486	NoData	NoData	NoData	NoData
4	386764	393486	NoData	NoData	NoData	NoData
5	386834	393486	NoData	NoData	NoData	NoData
6	386554	393556	NoData	NoData	NoData	NoData
7	386624	393556	NoData	NoData	NoData	NoData
8	386694	393556	NoData	NoData	NoData	NoData
9	386764	393556	NoData	NoData	NoData	NoData
10	386834	393556	NoData	NoData	NoData	NoData
11	386554	393626	NoData	NoData	44.79	45.00
12	386624	393626	NoData	NoData	NoData	45.44

Label	Easting	Northing	1% AEP (+30%)	1% AEP (+35%)	1% AEP (+70%)	0.1% AEP (+30%)
			Height	Height	Height	Height
13	386694	393626	NoData	NoData	46.15	46.22
14	386764	393626	NoData	NoData	NoData	NoData
15	386834	393626	NoData	NoData	NoData	NoData
16	386554	393696	44.59	44.65	44.87	45.10
17	386624	393696	NoData	NoData	45.17	45.25
18	386694	393696	NoData	NoData	NoData	NoData
19	386764	393696	NoData	NoData	NoData	NoData
20	386834	393696	NoData	NoData	NoData	NoData
21	386554	393766	NoData	NoData	NoData	NoData
22	386624	393766	NoData	NoData	NoData	NoData
23	386694	393766	NoData	NoData	NoData	NoData
24	386764	393766	NoData	NoData	NoData	NoData

Label	Easting	Northing	1% AEP (+30%)	1% AEP (+35%)	1% AEP (+70%)	0.1% AEP (+30%)
			Height	Height	Height	Height
25	386834	393766	NoData	NoData	NoData	NoData
Max value in selected area:			46.65	46.66	46.71	46.80

Data in this table comes from the Cringle Black Brook 2017 model. Height values are shown in mAOD, and depth values are shown in metres.

Any blank cells show where a particular scenario has not been modelled for this location.

Cells which contain text 'NoData' for a scenario show that return period has been modelled but there is no flood risk for that return period for that location.

'Max value in selected area' is the deepest depth or highest height at any location within your drawn boundary.

Defended climate change

Label	Easting	Northing	1% AEP (+30%)	1% AEP (+35%)	1% AEP (+70%)	0.1% AEP (+30%)
			Depth	Depth	Depth	Depth
1	386554	393486	NoData	NoData	NoData	NoData
2	386624	393486	NoData	NoData	NoData	NoData
3	386694	393486	NoData	NoData	NoData	NoData
4	386764	393486	NoData	NoData	NoData	NoData
5	386834	393486	NoData	NoData	NoData	NoData
6	386554	393556	NoData	NoData	NoData	NoData
7	386624	393556	NoData	NoData	NoData	NoData
8	386694	393556	NoData	NoData	NoData	NoData
9	386764	393556	NoData	NoData	NoData	NoData
10	386834	393556	NoData	NoData	NoData	NoData
11	386554	393626	NoData	NoData	0.00	0.21
12	386624	393626	NoData	NoData	NoData	0.13

Label	Easting	Northing	1% AEP (+30%)	1% AEP (+35%)	1% AEP (+70%)	0.1% AEP (+30%)
			Depth	Depth	Depth	Depth
13	386694	393626	NoData	NoData	0.00	0.05
14	386764	393626	NoData	NoData	NoData	NoData
15	386834	393626	NoData	NoData	NoData	NoData
16	386554	393696	0.37	0.43	0.65	0.88
17	386624	393696	NoData	NoData	0.04	0.12
18	386694	393696	NoData	NoData	NoData	NoData
19	386764	393696	NoData	NoData	NoData	NoData
20	386834	393696	NoData	NoData	NoData	NoData
21	386554	393766	NoData	NoData	NoData	NoData
22	386624	393766	NoData	NoData	NoData	NoData
23	386694	393766	NoData	NoData	NoData	NoData
24	386764	393766	NoData	NoData	NoData	NoData

Label	Easting	Northing	1% AEP (+30%)	1% AEP (+35%)	1% AEP (+70%)	0.1% AEP (+30%)
			Depth	Depth	Depth	Depth
25	386834	393766	NoData	NoData	NoData	NoData
Max value in selected area:			3.79	3.85	4.07	4.30

Data in this table comes from the Cringle Black Brook 2017 model. Height values are shown in mAOD, and depth values are shown in metres.

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'Max value in selected area' is the deepest depth or highest height at any location within your drawn boundary.



Defences removed climate change modelled fluvial extent and height

Location (easting/northing)
386696/393627

Scale Created
1:2,500 16 Jun 2025

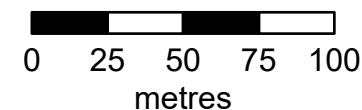
Model name
**Cringle Black Brook
2017**

-  Selected area
-  Main river

Modelled 2D grid
Water level in mAOD

-  0 - 6.25
-  6.25 - 12.5
-  12.5 - 18.75
-  18.75 - 25.0
-  25.0 - 31.25
-  31.25 - 37.5
-  37.5 - 43.75
-  43.75 - 50.0
-  50.0 - 56.25

This map shows the
0.1% AEP +30% height data



Sample point data

Defences removed climate change

Label	Easting	Northing	1% AEP (+30%)	1% AEP (+35%)	1% AEP (+70%)	0.1% AEP (+30%)
			Height	Height	Height	Height
1	386554	393486	NoData	NoData	NoData	NoData
2	386624	393486	NoData	NoData	NoData	NoData
3	386694	393486	NoData	NoData	NoData	NoData
4	386764	393486	NoData	NoData	NoData	NoData
5	386834	393486	NoData	NoData	NoData	NoData
6	386554	393556	NoData	NoData	NoData	NoData
7	386624	393556	NoData	NoData	NoData	NoData
8	386694	393556	NoData	NoData	NoData	NoData
9	386764	393556	NoData	NoData	NoData	NoData
10	386834	393556	NoData	NoData	NoData	NoData
11	386554	393626	NoData	NoData	44.79	45
12	386624	393626	NoData	NoData	NoData	45.44

Label	Easting	Northing	1% AEP (+30%)	1% AEP (+35%)	1% AEP (+70%)	0.1% AEP (+30%)
			Height	Height	Height	Height
13	386694	393626	NoData	NoData	46.15	46.22
14	386764	393626	NoData	NoData	NoData	NoData
15	386834	393626	NoData	NoData	NoData	NoData
16	386554	393696	44.59	44.65	44.87	45.10
17	386624	393696	NoData	NoData	45.17	45.25
18	386694	393696	NoData	NoData	NoData	NoData
19	386764	393696	NoData	NoData	NoData	NoData
20	386834	393696	NoData	NoData	NoData	NoData
21	386554	393766	NoData	NoData	NoData	NoData
22	386624	393766	NoData	NoData	NoData	NoData
23	386694	393766	NoData	NoData	NoData	NoData
24	386764	393766	NoData	NoData	NoData	NoData

Label	Easting	Northing	1% AEP (+30%)	1% AEP (+35%)	1% AEP (+70%)	0.1% AEP (+30%)
			Height	Height	Height	Height
25	386834	393766	NoData	NoData	NoData	NoData
Max value in selected area:			46.65	46.66	46.71	46.80

Data in this table comes from the Cringle Black Brook 2017 model. Height values are shown in mAOD, and depth values are shown in metres.

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'Max value in selected area' is the deepest depth or highest height at any location within your drawn boundary.

Defences removed climate change

Label	Easting	Northing	1% AEP (+30%)	1% AEP (+35%)	1% AEP (+70%)	0.1% AEP (+30%)
			Depth	Depth	Depth	Depth
1	386554	393486	NoData	NoData	NoData	NoData
2	386624	393486	NoData	NoData	NoData	NoData
3	386694	393486	NoData	NoData	NoData	NoData
4	386764	393486	NoData	NoData	NoData	NoData
5	386834	393486	NoData	NoData	NoData	NoData
6	386554	393556	NoData	NoData	NoData	NoData
7	386624	393556	NoData	NoData	NoData	NoData
8	386694	393556	NoData	NoData	NoData	NoData
9	386764	393556	NoData	NoData	NoData	NoData
10	386834	393556	NoData	NoData	NoData	NoData
11	386554	393626	NoData	NoData	0.00	0.21
12	386624	393626	NoData	NoData	NoData	0.13

Label	Easting	Northing	1% AEP (+30%)	1% AEP (+35%)	1% AEP (+70%)	0.1% AEP (+30%)
			Depth	Depth	Depth	Depth
13	386694	393626	NoData	NoData	0.00	0.05
14	386764	393626	NoData	NoData	NoData	NoData
15	386834	393626	NoData	NoData	NoData	NoData
16	386554	393696	0.37	0.43	0.65	0.88
17	386624	393696	NoData	NoData	0.04	0.12
18	386694	393696	NoData	NoData	NoData	NoData
19	386764	393696	NoData	NoData	NoData	NoData
20	386834	393696	NoData	NoData	NoData	NoData
21	386554	393766	NoData	NoData	NoData	NoData
22	386624	393766	NoData	NoData	NoData	NoData
23	386694	393766	NoData	NoData	NoData	NoData
24	386764	393766	NoData	NoData	NoData	NoData

Label	Easting	Northing	1% AEP (+30%)	1% AEP (+35%)	1% AEP (+70%)	0.1% AEP (+30%)
			Depth	Depth	Depth	Depth
25	386834	393766	NoData	NoData	NoData	NoData
Max value in selected area:			3.79	3.85	4.07	4.30

Data in this table comes from the Cringle Black Brook 2017 model. Height values are shown in mAOD, and depth values are shown in metres.

Any blank cells show where a particular scenario has not been modelled for this location.

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'Max value in selected area' is the deepest depth or highest height at any location within your drawn boundary.

Strategic flood risk assessments

We recommend that you check the relevant local authority's strategic flood risk assessment (SFRA) as part of your work to prepare a site specific flood risk assessment.

This should give you information about:

- the potential impacts of climate change in this catchment
- areas defined as functional floodplain
- flooding from other sources, such as surface water, ground water and reservoirs

Your Lead Local Flood Authority is Manchester District.

About this data

This data has been generated by strategic scale flood models and is not intended for use at the individual property scale. If you're intending to use this data as part of a flood risk assessment, please include an appropriate modelling tolerance as part of your assessment. The Environment Agency regularly updates its modelling. We recommend that you check the data provided is the most recent, before submitting your flood risk assessment.

Flood risk activity permits

Under the Environmental Permitting (England and Wales) Regulations 2016 some developments may require an environmental permit for flood risk activities from the Environment Agency. This includes any permanent or temporary works that are in, over, under, or nearby a designated main river or flood defence structure.

[Find out more about flood risk activity permits](#)

Help and advice

Contact the Greater Manchester Merseyside and Cheshire Environment Agency team at inforequests.gmmc@environment-agency.gov.uk for:

- [more information about getting a product 5, 6, 7 or 8](#)
- general help and advice about the site you're requesting data for