Flood risk assessment data

Location of site: 386222 / 393362 (shown as easting and northing coordinates)
Document created on: 13 August 2024
This information was previously known as a product 4.
Customer reference number: 4WXJVYYK3HP3

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)
- historic flooding
- 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
- climate change 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

Use the long term flood risk service to find out about the risk of flooding from:

- surface water
- ordinary watercourses
- reservoirs

Or you can contact your Lead Local Flood Authority for further information.

Your Lead Local Flood Authority is Manchester.

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 occuring 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 2.

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

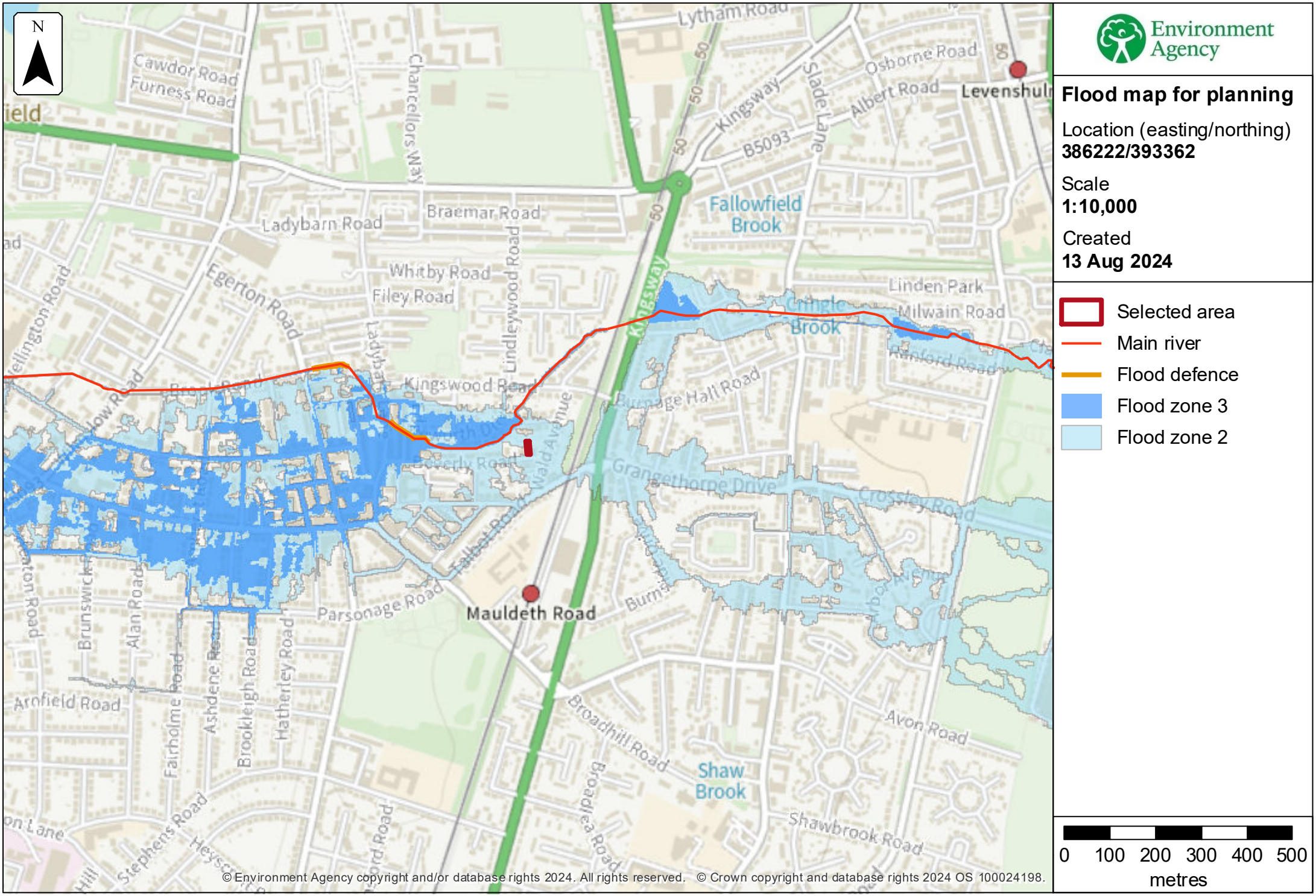
Flood zone 2 shows the area at risk of flooding for an undefended flood event with:

- 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

The flood zones are not currently being updated. The last update was in November 2023. Some of the flood zones may have changed, however all source data is included in the models below.



Environment Agency

Flood map for planning

Location (easting/northing)
386222/393362

Scale
1:10,000

Created
13 Aug 2024

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

0 100 200 300 400 500
metres

Historic flooding

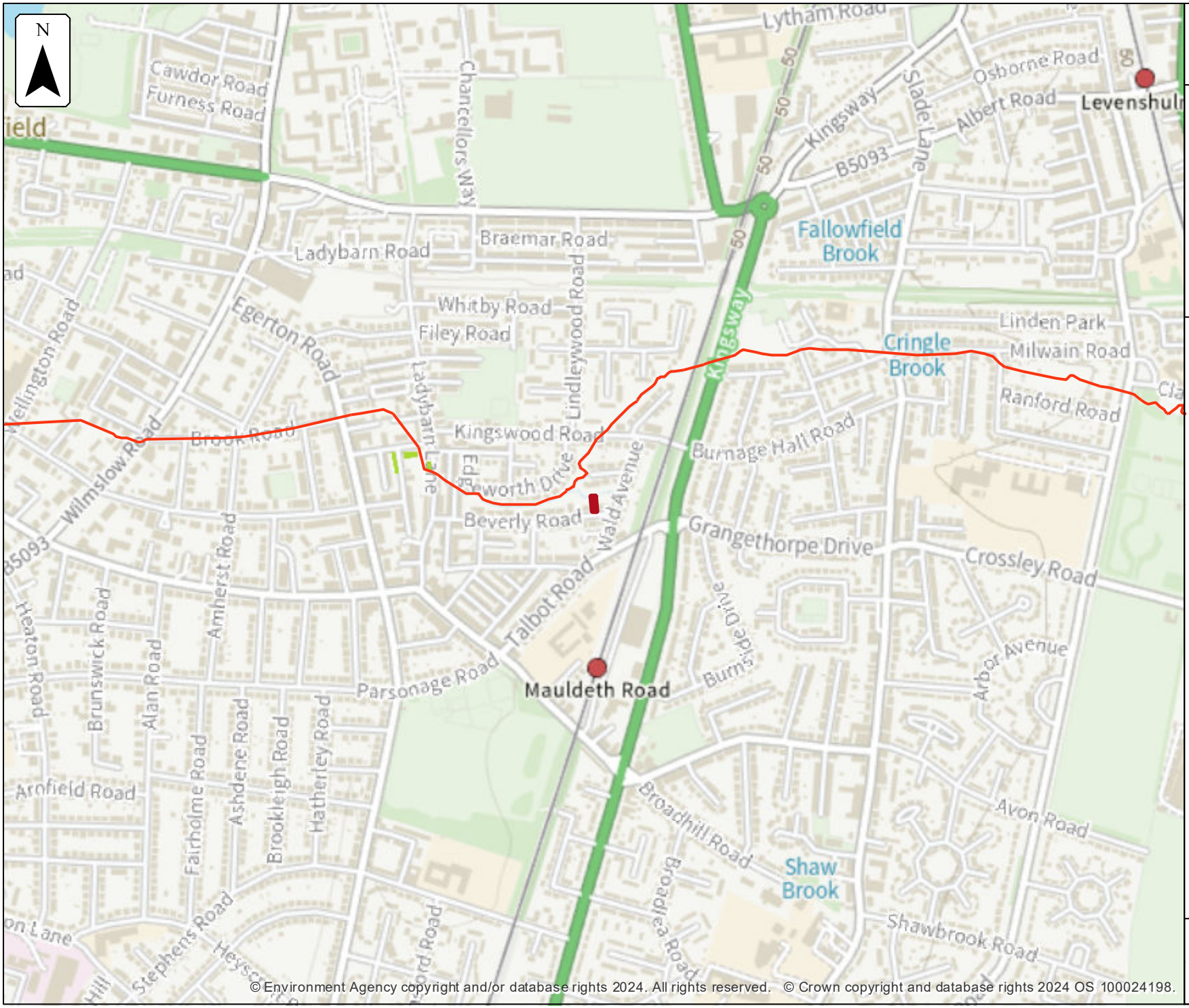
This map is an indicative outline of areas that have previously flooded. Remember that:

- our records are incomplete, so the information here is based on the best available data
- it is possible not all properties within this area will have flooded
- other flooding may have occurred that we do not have records for
- flooding can come from a range of different sources - we can only supply flood risk data relating to flooding from rivers or the sea

You can also contact your Lead Local Flood Authority or Internal Drainage Board to see if they have other relevant local flood information. Please note that some areas do not have an Internal Drainage Board.

Your Lead Local Flood Authority is Manchester.

Download recorded flood outlines in GIS format



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Environment Agency

Historic flood map

Location (easting/northing)
386222/393362

Scale
1:10,000

Created
13 Aug 2024

Selected area

Main river

Date of flood event

October, 2001

0 100 200 300 400 500
metres

Historic flood event data

Start date	End date	Source of flood	Cause of flood	Affects location
26 October 2001	27 October 2001	main river	obstruction/blockage - channel	No

Flood defences and attributes

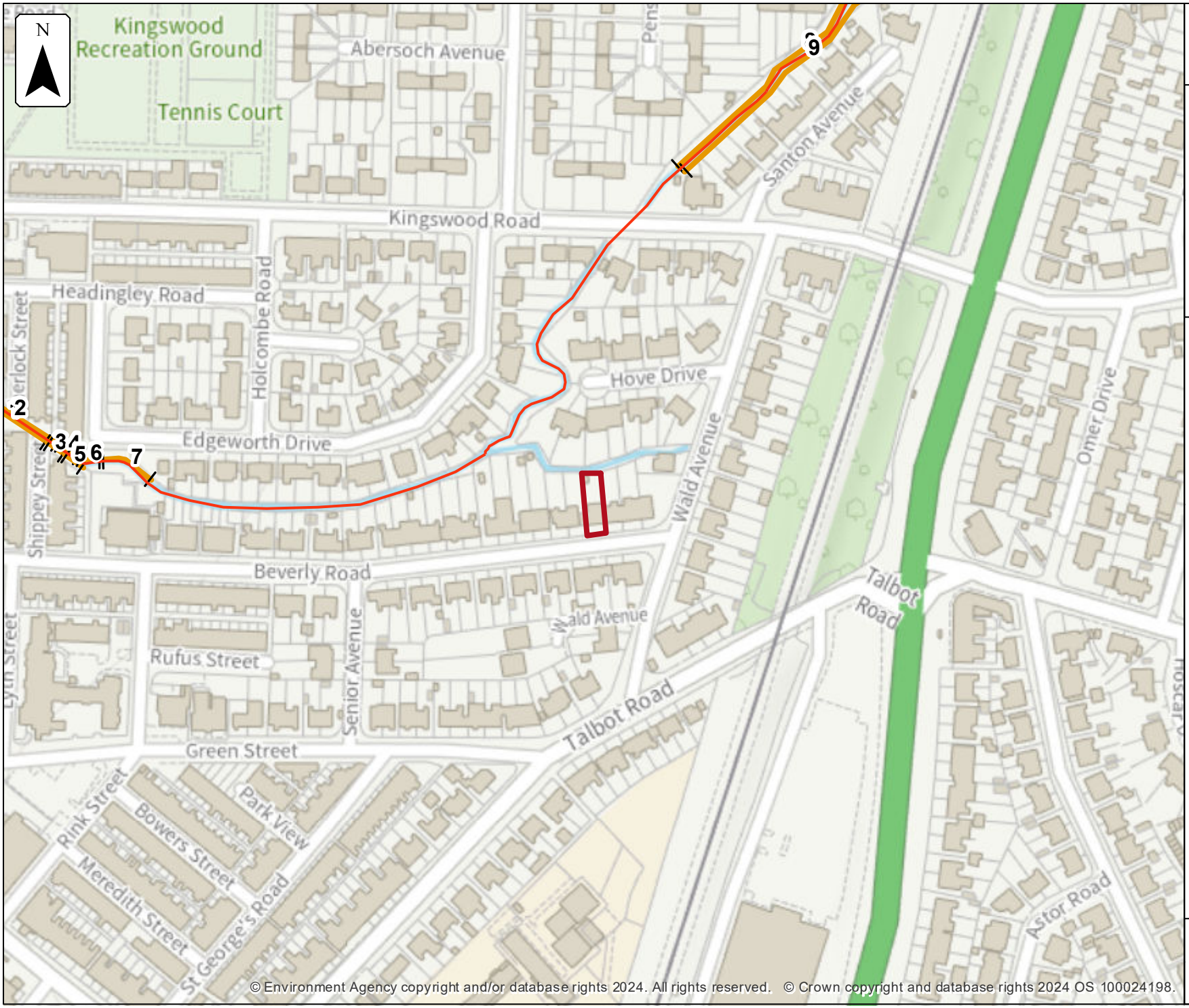
The flood defences map shows the location of the flood defences present.

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



Environment Agency

Flood defences

Location (easting/northing)
386222/393362

Scale
1:2,500

Created
13 Aug 2024

Selected area
Main river
Flood defence

0 25 50 75 100
metres

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	32357	Wall	100		40.67	40.97	
2	121698	Wall	100		40.70	40.96	
3	32358	Wall	100		40.72	40.71	
4	59161	Wall	100		40.13	40.13	
5	8870	Wall	100		39.84	39.83	
6	8872	Embankment	100		39.78	39.77	
7	9557	Engineered High Ground	100		39.86	39.89	
8	7427	Engineered High Ground	100		40.24	44.26	
9	9636	Engineered High Ground	100		43.83	41.26	

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

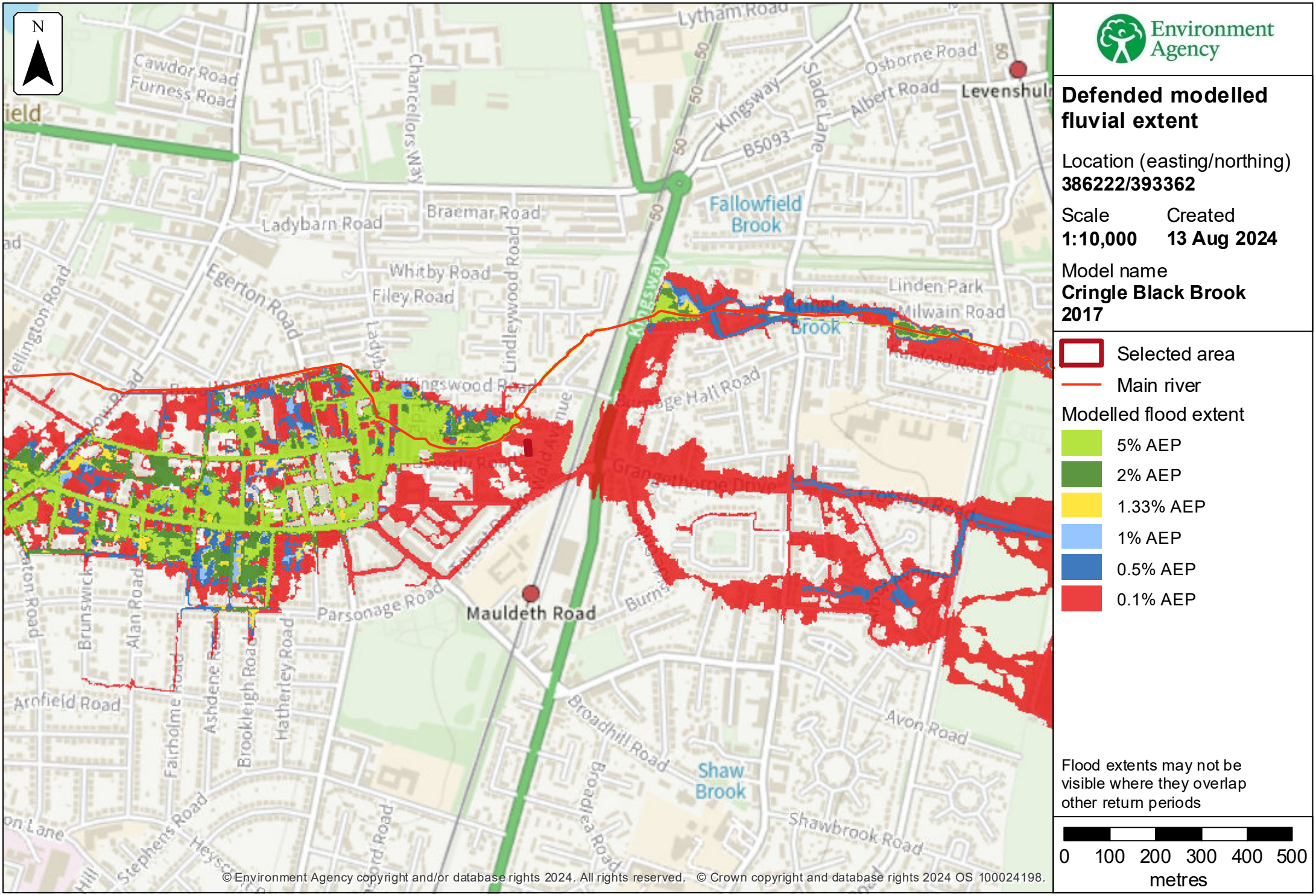
The climate change data included in the models may not include the latest flood risk assessment climate change allowances. Where the new allowances are not available you will need to consider this data and factor in the new allowances to demonstrate the development will be safe from flooding.

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



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Environment Agency

Defended modelled fluvial extent

Location (easting/northing)
386222/393362

Scale
1:10,000

Created
13 Aug 2024

Model name
Cringle Black Brook 2017

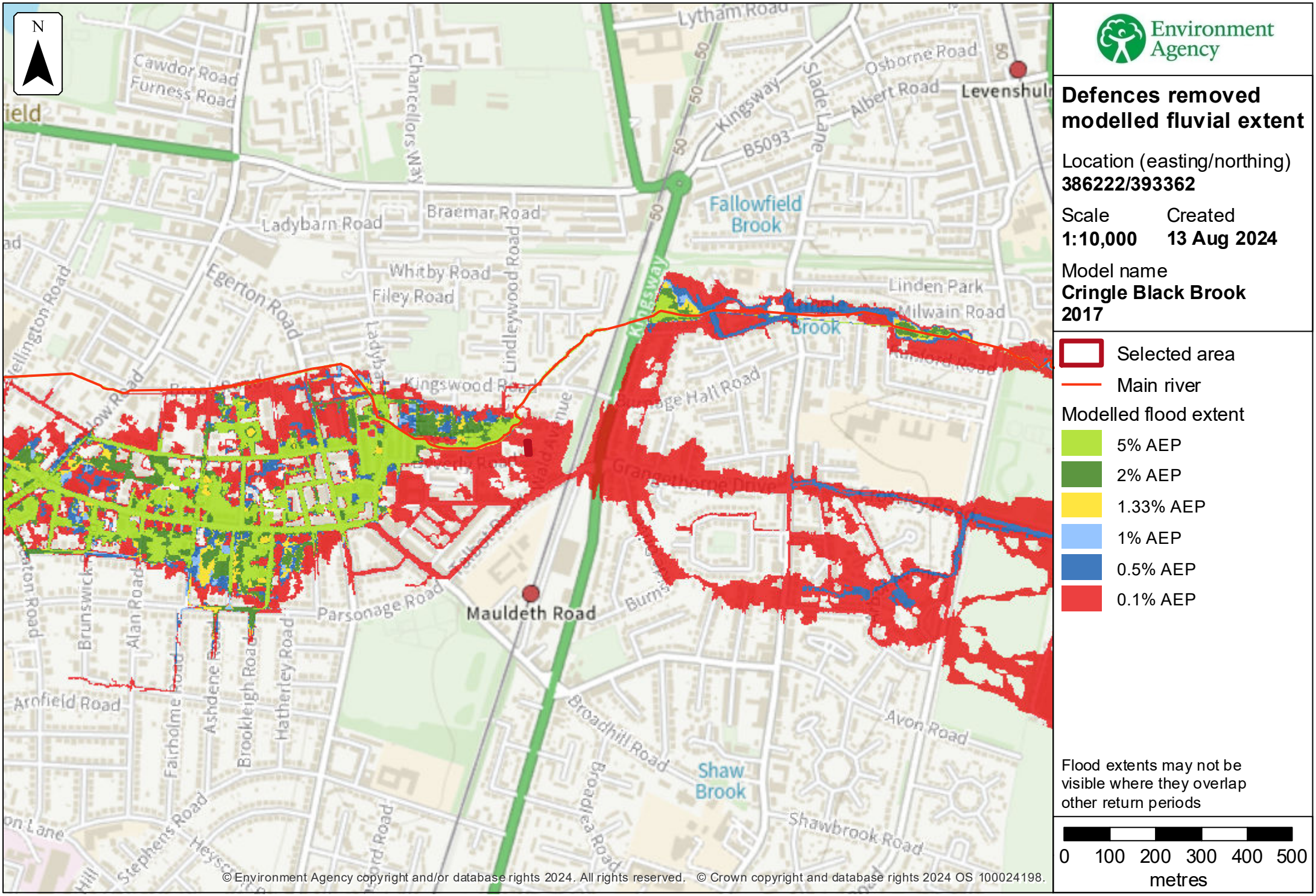
- Selected area
- Main river

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

0 100 200 300 400 500
metres



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Defences removed modelled fluvial extent

Location (easting/northing)
386222/393362

Scale
1:10,000

Created
13 Aug 2024

Model name
Cringle Black Brook 2017

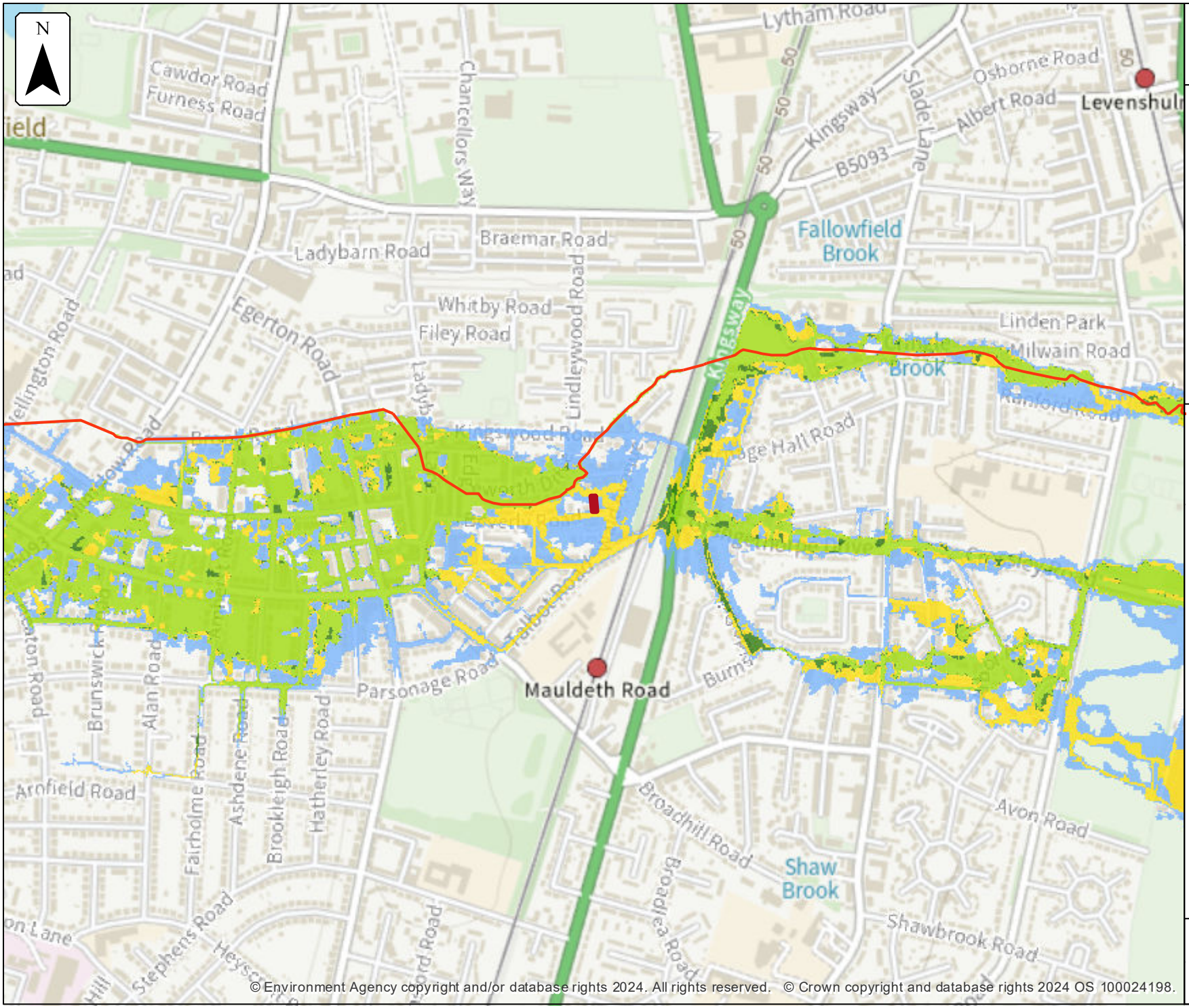
- Selected area
- Main river

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

0 100 200 300 400 500
metres



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Defended climate change modelled fluvial extent

Location (easting/northing)
386222/393362

Scale
1:10,000

Created
13 Aug 2024

Model name
Cringle Black Brook 2017

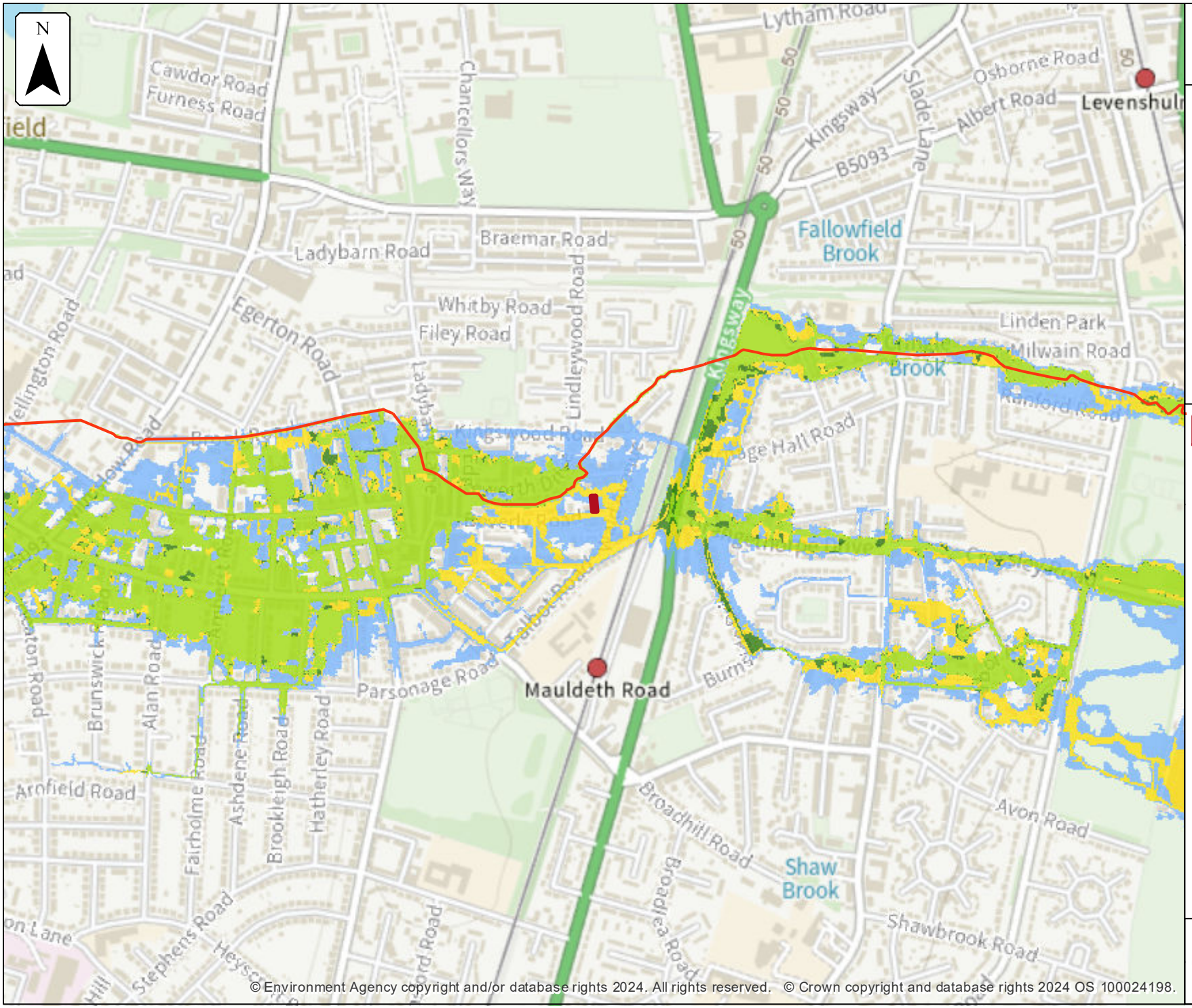
- Selected area
- Main river

Modelled flood extent

- 1.0% AEP (+30%)
- 1.0% AEP (+35%)
- 1.0% AEP (+70%)
- 0.1% AEP (+30%)

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

0 100 200 300 400 500
metres



Environment Agency

Defences removed climate change modelled fluvial extent

Location (easting/northing)
386222/393362

Scale
1:10,000

Created
13 Aug 2024

Model name
Cringle Black Brook 2017

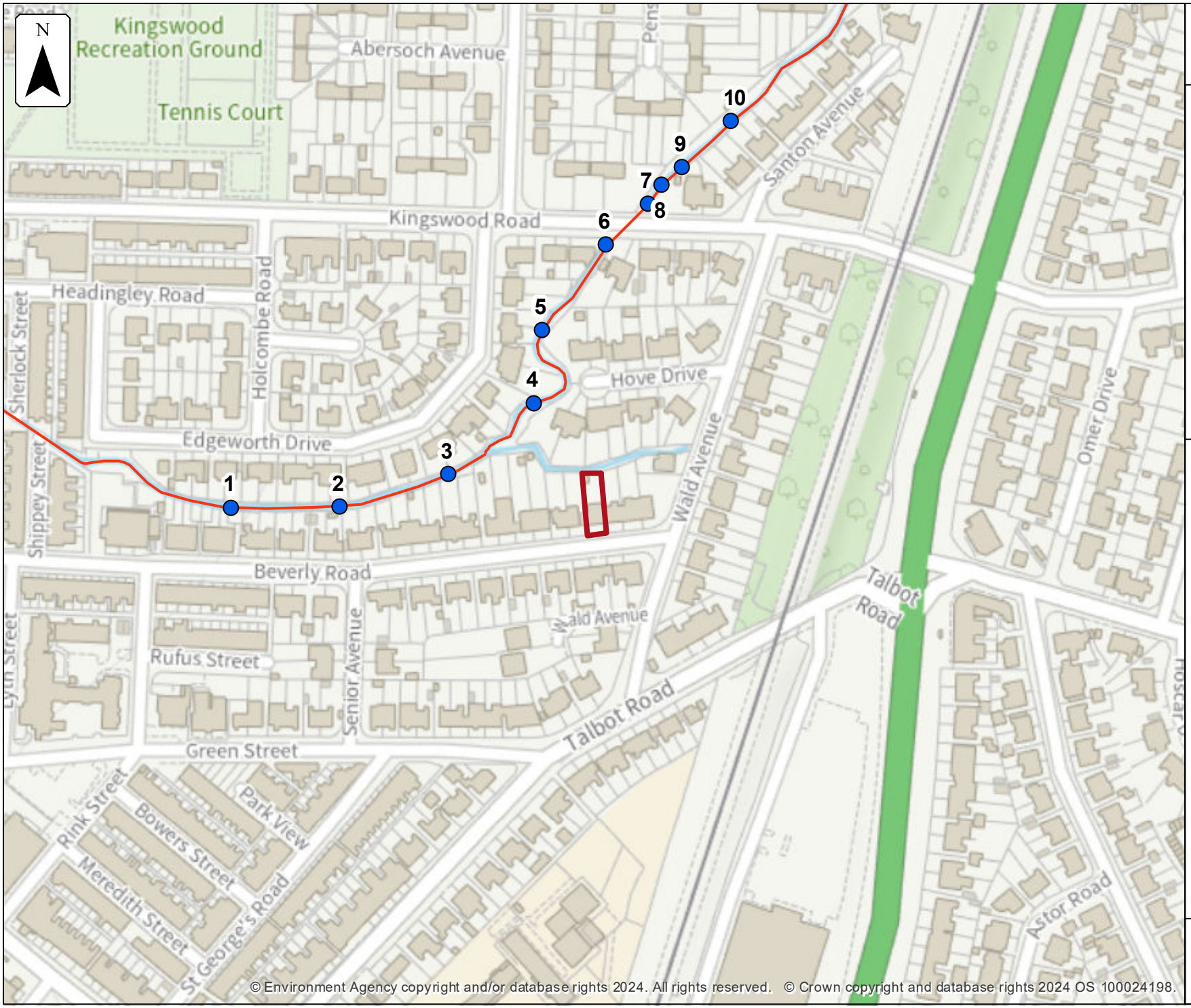
- Selected area
- Main river

Modelled flood extent

- 1.0% AEP (+30%)
- 1.0% AEP (+35%)
- 1.0% AEP (+70%)
- 0.1% AEP (+30%)

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

0 100 200 300 400 500
metres



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Defended modelled fluvial node locations

Location (easting/northing)
386222/393362

Scale
1:2,500

Created
13 Aug 2024

Model name
Cringle Black Brook 2017

Selected area

Modelled location

Main river

0 25 50 75 100
metres

Modelled node locations data

Defended

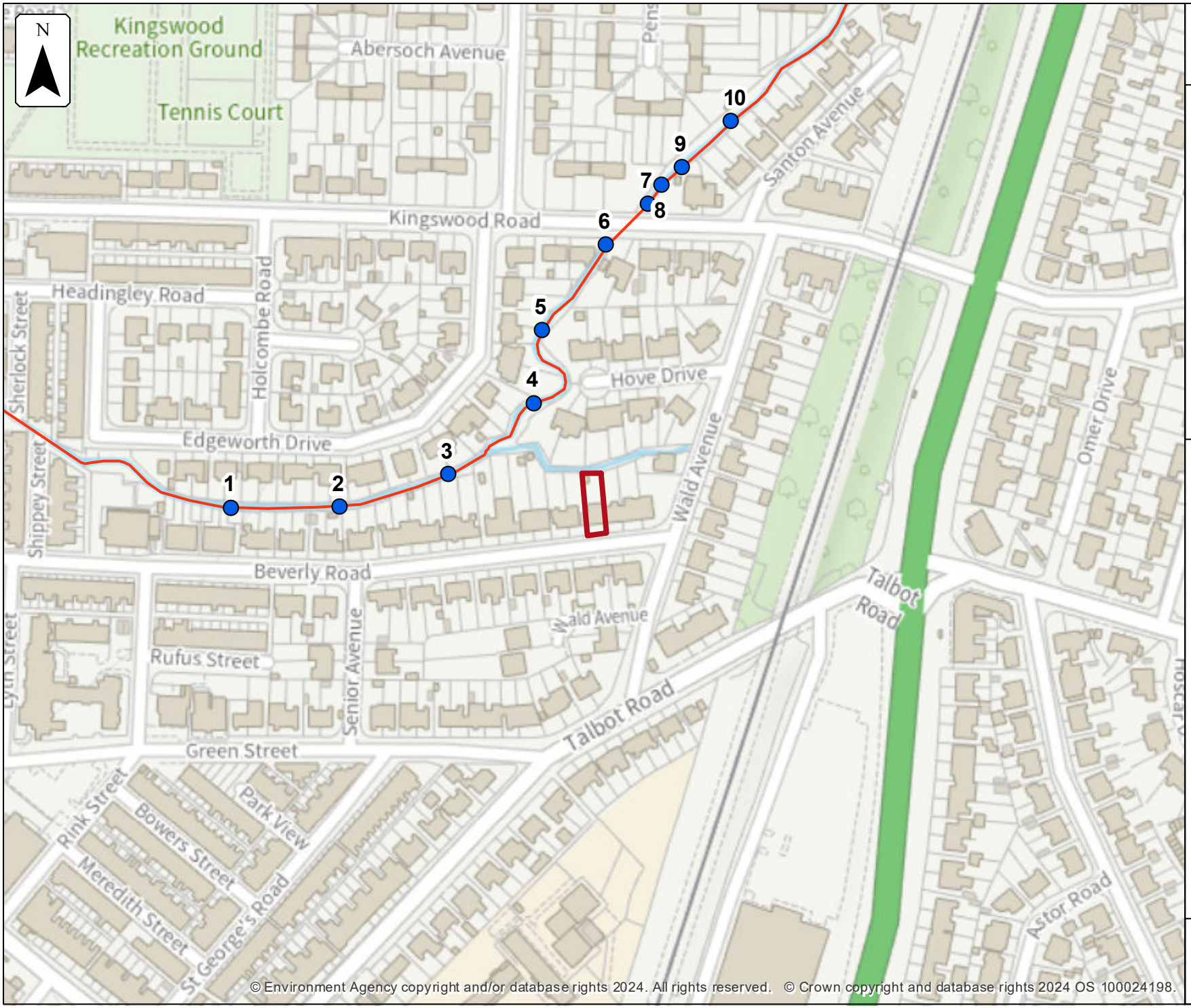
Label	Modelled location ID	Easting	Northing	5% AEP	2% AEP	1.33% AEP	1% AEP	0.5% AEP	0.1% AEP
				Level	Level	Level	Level	Level	Level
1	1440092	386046	393360	39.78	39.83	39.85	39.86	39.89	40.08
2	1440070	386099	393360	40.04	40.09	40.11	40.12	40.16	40.29
3	1440144	386152	393376	40.26	40.32	40.34	40.35	40.40	40.62
4	1440143	386194	393411	40.51	40.60	40.62	40.63	40.67	40.78
5	1440040	386197	393446	40.55	40.60	40.62	40.63	40.66	40.75
6	1440069	386229	393488	40.63	40.68	40.70	40.71	40.73	40.84
7	1440032	386249	393508	40.81	40.89	40.93	40.95	41.01	41.25
8	1440145	386255	393517	40.83	40.91	40.94	40.97	41.02	41.26
9	1440154	386265	393525	40.85	40.93	40.97	40.99	41.04	41.30
10	1440042	386289	393548	41.12	41.16	41.19	41.20	41.22	41.37

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.
If no level or flow data is available for a scenario, no table will be shown.

Defended

Label	Modelled location ID	Easting	Northing	5% AEP	2% AEP	1.33% AEP	1% AEP	0.5% AEP	0.1% AEP
				Flow	Flow	Flow	Flow	Flow	Flow
1	1440092	386046	393360	5.07	5.53	5.72	5.82	6.19	8.56
2	1440070	386099	393360	5.07	5.54	5.71	5.81	6.16	9.19
3	1440144	386152	393376	5.07	5.54	5.71	5.81	6.16	9.18
4	1440143	386194	393411	4.83	5.10	5.29	5.42	5.97	10.89
5	1440040	386197	393446	3.80	4.12	4.29	4.37	4.57	5.54
6	1440069	386229	393488	3.80	4.11	4.29	4.37	4.57	5.54
7	1440032	386249	393508	3.80	4.11	4.29	4.37	4.57	5.54
8	1440145	386255	393517	3.80	4.11	4.29	4.37	4.57	5.58
9	1440154	386265	393525	3.55	3.91	4.08	4.16	4.37	4.87
10	1440042	386289	393548	3.54	3.91	4.07	4.16	4.37	4.87

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.
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Defences removed modelled fluvial node locations

Location (easting/northing)
386222/393362

Scale
1:2,500

Created
13 Aug 2024

Model name
Cringle Black Brook 2017

- Selected area
- Modelled location
- Main river

0 25 50 75 100
metres

Modelled node locations data

Defences removed

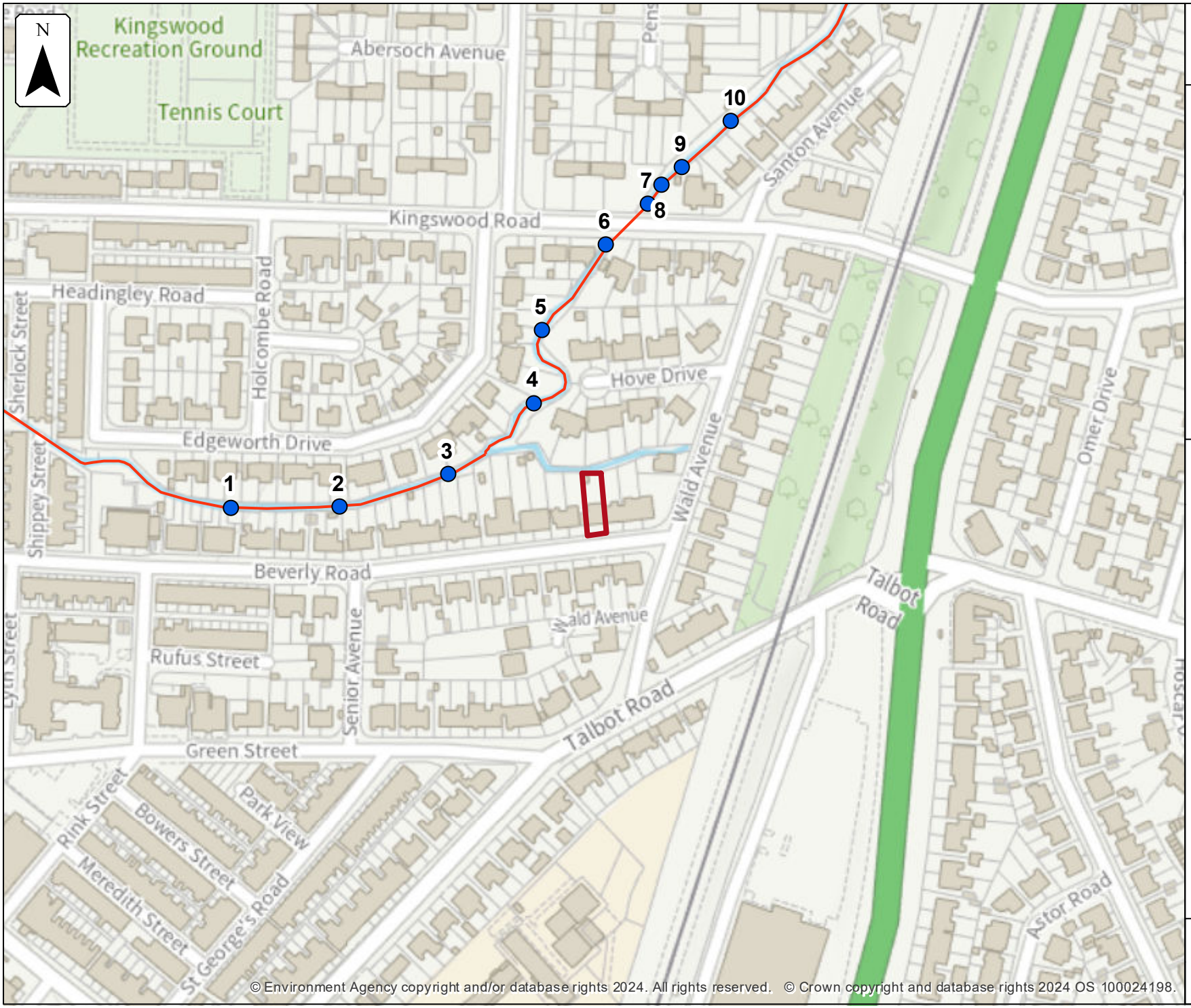
Label	Modelled location ID	Easting	Northing	5% AEP	2% AEP	1.33% AEP	1% AEP	0.5% AEP	0.1% AEP
				Level	Level	Level	Level	Level	Level
1	1440092	386046	393360	39.78	39.83	39.85	39.86	39.89	40.08
2	1440070	386099	393360	40.04	40.09	40.11	40.12	40.16	40.29
3	1440144	386152	393376	40.26	40.32	40.34	40.35	40.40	40.62
4	1440143	386194	393411	40.51	40.60	40.62	40.63	40.67	40.78
5	1440040	386197	393446	40.55	40.60	40.62	40.63	40.66	40.75
6	1440069	386229	393488	40.63	40.68	40.70	40.71	40.73	40.84
7	1440032	386249	393508	40.81	40.89	40.93	40.95	41.01	41.25
8	1440145	386255	393517	40.83	40.91	40.94	40.97	41.02	41.26
9	1440154	386265	393525	40.85	40.93	40.97	40.99	41.04	41.30
10	1440042	386289	393548	41.12	41.16	41.19	41.20	41.22	41.37

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.
If no level or flow data is available for a scenario, no table will be shown.

Defences removed

Label	Modelled location ID	Easting	Northing	5% AEP	2% AEP	1.33% AEP	1% AEP	0.5% AEP	0.1% AEP
				Flow	Flow	Flow	Flow	Flow	Flow
1	1440092	386046	393360	5.07	5.53	5.72	5.82	6.19	8.56
2	1440070	386099	393360	5.07	5.54	5.71	5.81	6.16	9.19
3	1440144	386152	393376	5.07	5.54	5.71	5.81	6.16	9.18
4	1440143	386194	393411	4.83	5.10	5.29	5.42	5.97	10.89
5	1440040	386197	393446	3.80	4.12	4.29	4.37	4.57	5.54
6	1440069	386229	393488	3.80	4.11	4.29	4.37	4.57	5.54
7	1440032	386249	393508	3.80	4.11	4.29	4.37	4.57	5.54
8	1440145	386255	393517	3.80	4.11	4.29	4.37	4.57	5.58
9	1440154	386265	393525	3.55	3.91	4.08	4.16	4.37	4.87
10	1440042	386289	393548	3.54	3.91	4.07	4.16	4.37	4.87

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.
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Environment Agency

Defended climate change modelled fluvial node locations

Location (easting/northing)
386222/393362

Scale
1:2,500

Created
13 Aug 2024

Model name
Cringle Black Brook 2017

- Selected area
- Modelled location
- Main river

0 25 50 75 100
metres

Modelled node locations data

Defended climate change

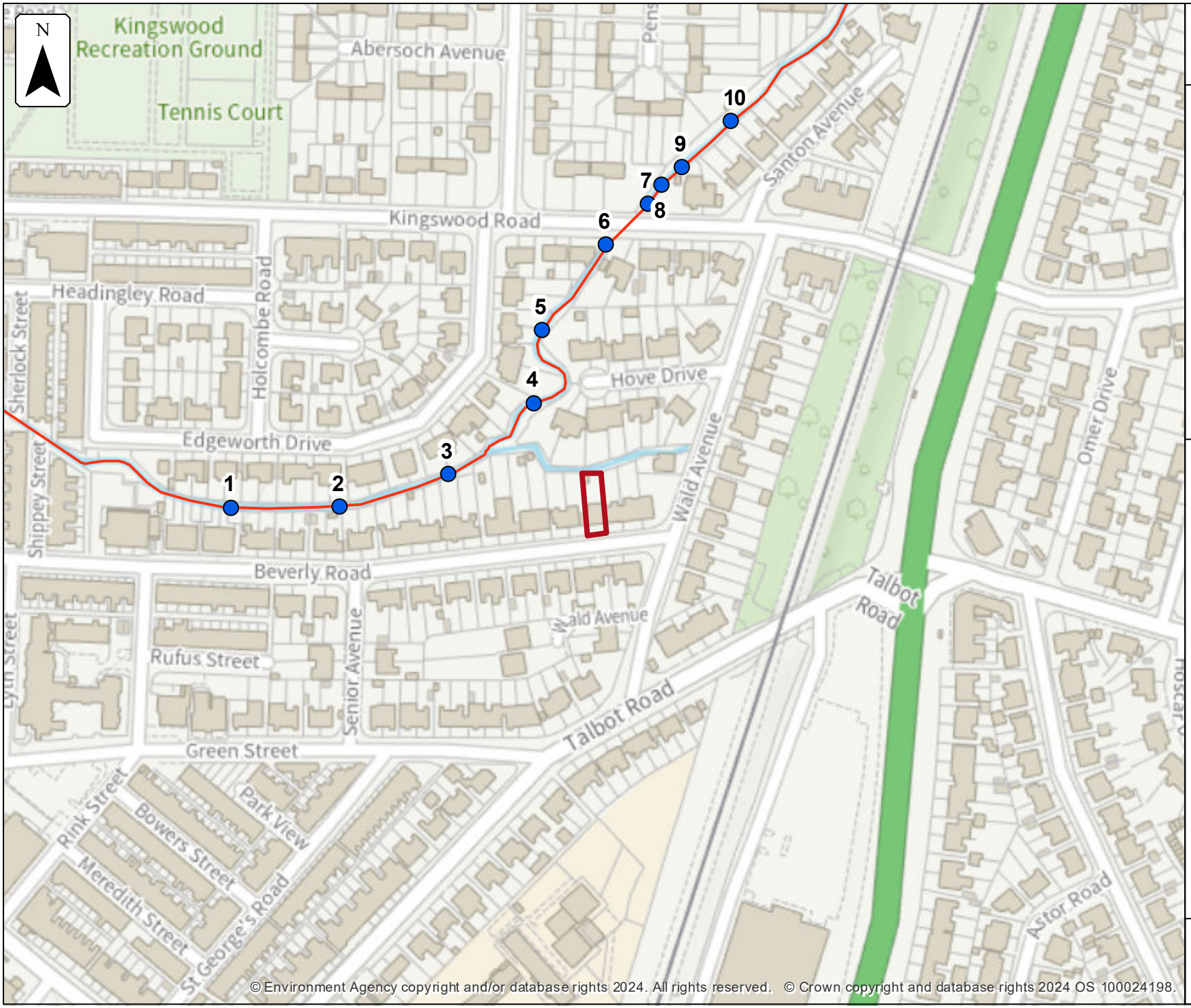
Label	Modelled location ID	Easting	Northing	1.0% AEP (+30%)	1.0% AEP (+35%)	1.0% AEP (+70%)	0.1% AEP (+30%)
				Level	Level	Level	Level
1	1440092	386046	393360	39.91	39.91	39.95	40.16
2	1440070	386099	393360	40.17	40.18	40.23	40.31
3	1440144	386152	393376	40.42	40.43	40.50	40.71
4	1440143	386194	393411	40.69	40.70	40.72	40.81
5	1440040	386197	393446	40.67	40.68	40.70	40.79
6	1440069	386229	393488	40.75	40.76	40.79	40.88
7	1440032	386249	393508	41.04	41.05	41.13	41.32
8	1440145	386255	393517	41.05	41.07	41.14	41.32
9	1440154	386265	393525	41.08	41.09	41.17	41.36
10	1440042	386289	393548	41.24	41.25	41.29	41.42

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.
If no level or flow data is available for a scenario, no table will be shown.

Defended climate change

Label	Modelled location ID	Easting	Northing	1.0% AEP (+30%)	1.0% AEP (+35%)	1.0% AEP (+70%)	0.1% AEP (+30%)
				Flow	Flow	Flow	Flow
1	1440092	386046	393360	6.42	6.52	7.26	9.24
2	1440070	386099	393360	6.37	6.46	7.27	10.57
3	1440144	386152	393376	6.38	6.46	7.27	10.45
4	1440143	386194	393411	6.33	6.49	7.76	13.25
5	1440040	386197	393446	4.73	4.79	5.06	5.79
6	1440069	386229	393488	4.73	4.79	5.06	5.78
7	1440032	386249	393508	4.73	4.79	5.06	5.78
8	1440145	386255	393517	4.73	4.79	5.06	6.09
9	1440154	386265	393525	4.53	4.58	4.77	4.97
10	1440042	386289	393548	4.53	4.58	4.77	4.96

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.
If no level or flow data is available for a scenario, no table will be shown.



Environment Agency

Defences removed climate change modelled fluvial node locations

Location (easting/northing)
386222/393362

Scale
1:2,500

Created
13 Aug 2024

Model name
Cringle Black Brook 2017

Selected area
Modelled location
Main river

0 25 50 75 100
metres

Modelled node locations data

Defences removed climate change

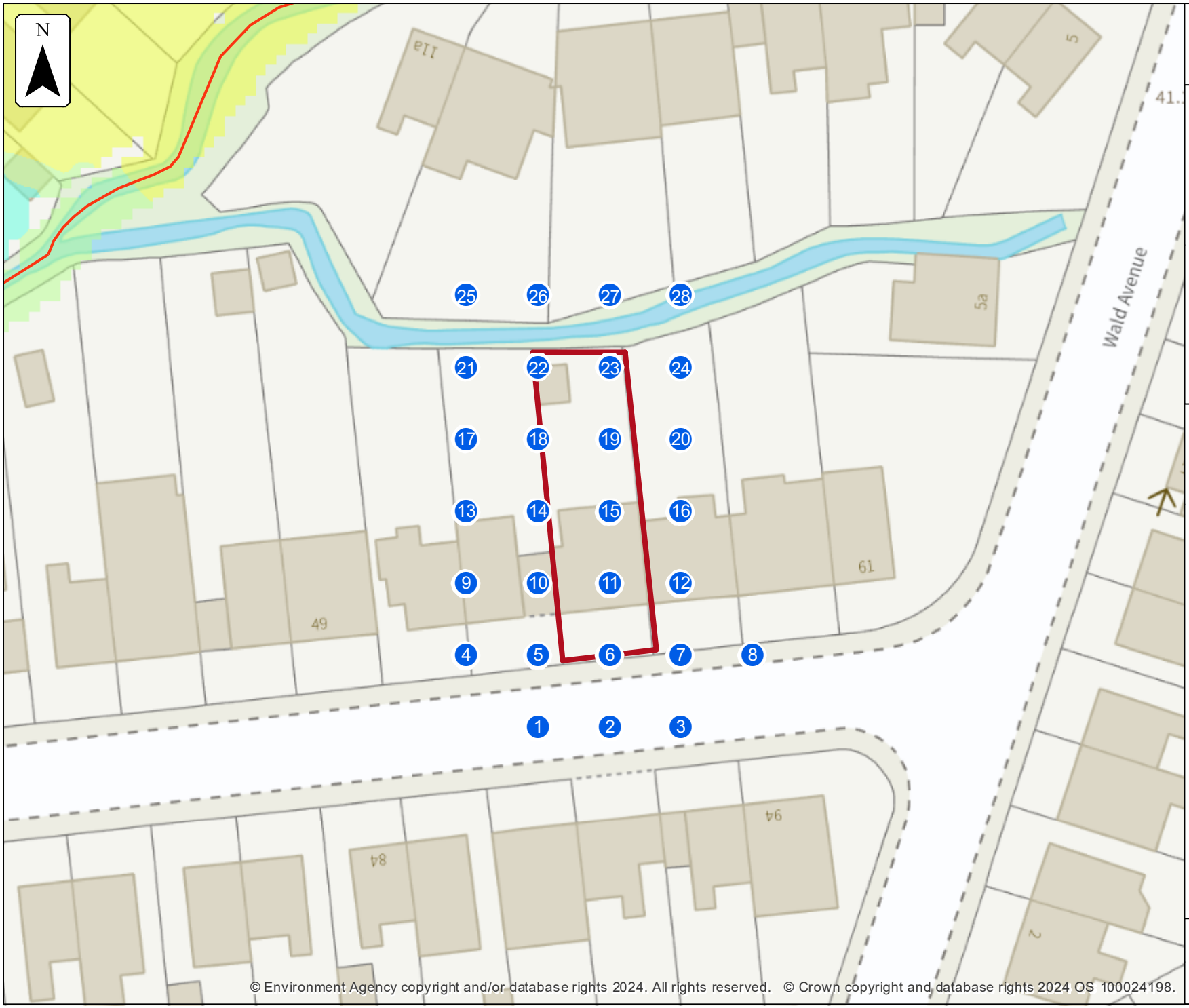
Label	Modelled location ID	Easting	Northing	1.0% AEP (+30%)	1.0% AEP (+35%)	1.0% AEP (+70%)	0.1% AEP (+30%)
				Level	Level	Level	Level
1	1440092	386046	393360	39.91	39.91	39.95	40.16
2	1440070	386099	393360	40.17	40.18	40.23	40.31
3	1440144	386152	393376	40.42	40.43	40.50	40.71
4	1440143	386194	393411	40.69	40.70	40.72	40.81
5	1440040	386197	393446	40.67	40.68	40.70	40.79
6	1440069	386229	393488	40.75	40.76	40.79	40.88
7	1440032	386249	393508	41.04	41.05	41.13	41.32
8	1440145	386255	393517	41.05	41.07	41.14	41.32
9	1440154	386265	393525	41.08	41.09	41.17	41.36
10	1440042	386289	393548	41.24	41.25	41.29	41.42

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.
If no level or flow data is available for a scenario, no table will be shown.

Defences removed climate change

Label	Modelled location ID	Easting	Northing	1.0% AEP (+30%)	1.0% AEP (+35%)	1.0% AEP (+70%)	0.1% AEP (+30%)
				Flow	Flow	Flow	Flow
1	1440092	386046	393360	6.42	6.52	7.26	9.24
2	1440070	386099	393360	6.37	6.46	7.27	10.57
3	1440144	386152	393376	6.38	6.46	7.27	10.45
4	1440143	386194	393411	6.33	6.49	7.76	13.25
5	1440040	386197	393446	4.73	4.79	5.06	5.79
6	1440069	386229	393488	4.73	4.79	5.06	5.78
7	1440032	386249	393508	4.73	4.79	5.06	5.78
8	1440145	386255	393517	4.73	4.79	5.06	6.09
9	1440154	386265	393525	4.53	4.58	4.77	4.97
10	1440042	386289	393548	4.53	4.58	4.77	4.96

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.
If no level or flow data is available for a scenario, no table will be shown.



Environment Agency

Defended modelled fluvial extent and height

Location (easting/northing)
386222/393362

Scale
1:500

Created
13 Aug 2024

Model name
Cringle Black Brook 2017

Selected area

Main river

Modelled 2D grid
Water level in mAOD

- 0 - 40.0
- 40.0 - 40.125
- 40.125 - 40.25
- 40.25 - 40.375
- 40.375 - 40.5
- 40.5 - 40.625
- 40.625 - 40.75
- 40.75 - 40.875
- 40.875 - 41.0

This map shows the 1.33% AEP height data

0 5 10 15 20
metres

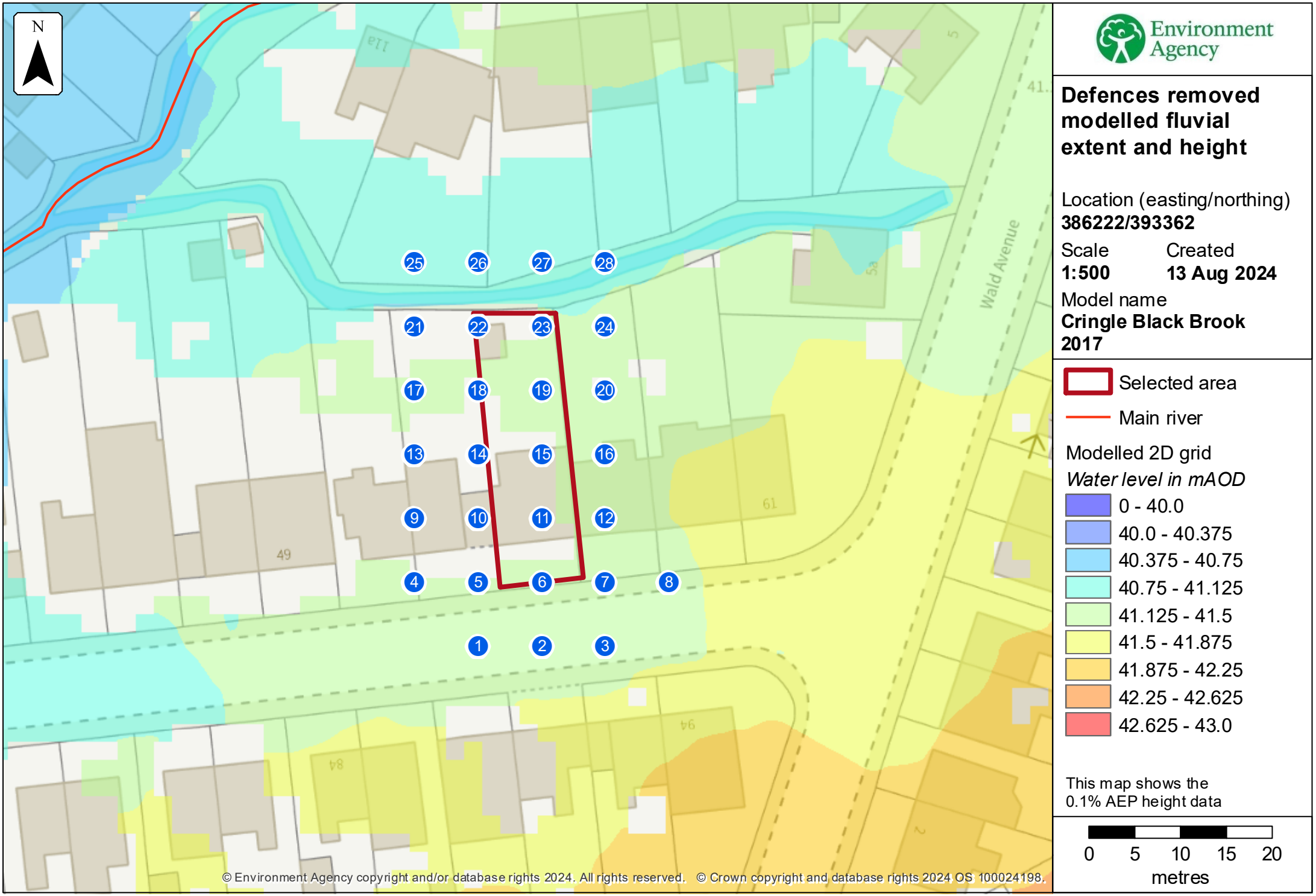
Sample point data

Defended

Label	Easting	Northing	2% AEP	1.33% AEP	0.5% AEP	5% AEP	2% AEP	1.33% AEP
			Depth	Depth	Depth	Height	Height	Height
1	386217	393340	NoData	NoData	NoData	NoData	NoData	NoData
2	386224	393340	NoData	NoData	NoData	NoData	NoData	NoData
3	386231	393340	NoData	NoData	NoData	NoData	NoData	NoData
4	386210	393347	NoData	NoData	NoData	NoData	NoData	NoData
5	386217	393347	NoData	NoData	NoData	NoData	NoData	NoData
6	386224	393347	NoData	NoData	NoData	NoData	NoData	NoData
7	386231	393347	NoData	NoData	NoData	NoData	NoData	NoData
8	386238	393347	NoData	NoData	NoData	NoData	NoData	NoData
9	386210	393354	NoData	NoData	NoData	NoData	NoData	NoData
10	386217	393354	NoData	NoData	NoData	NoData	NoData	NoData
11	386224	393354	NoData	NoData	NoData	NoData	NoData	NoData
12	386231	393354	NoData	NoData	NoData	NoData	NoData	NoData
13	386210	393361	NoData	NoData	NoData	NoData	NoData	NoData
14	386217	393361	NoData	NoData	NoData	NoData	NoData	NoData
15	386224	393361	NoData	NoData	NoData	NoData	NoData	NoData
16	386231	393361	NoData	NoData	NoData	NoData	NoData	NoData

Label	Easting	Northing	2% AEP	1.33% AEP	0.5% AEP	5% AEP	2% AEP	1.33% AEP
			Depth	Depth	Depth	Height	Height	Height
17	386210	393368	NoData	NoData	NoData	NoData	NoData	NoData
18	386217	393368	NoData	NoData	NoData	NoData	NoData	NoData
19	386224	393368	NoData	NoData	NoData	NoData	NoData	NoData
20	386231	393368	NoData	NoData	NoData	NoData	NoData	NoData
21	386210	393375	NoData	NoData	NoData	NoData	NoData	NoData
22	386217	393375	NoData	NoData	NoData	NoData	NoData	NoData
23	386224	393375	NoData	NoData	NoData	NoData	NoData	NoData
24	386231	393375	NoData	NoData	NoData	NoData	NoData	NoData
25	386210	393382	NoData	NoData	NoData	NoData	NoData	NoData
26	386217	393382	NoData	NoData	NoData	NoData	NoData	NoData
27	386224	393382	NoData	NoData	NoData	NoData	NoData	NoData
28	386231	393382	NoData	NoData	NoData	NoData	NoData	NoData
Max value in selected area:			NoData	NoData	NoData	NoData	NoData	NoData

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.
If no height or depth data is available for a scenario, no table will be shown.
'Max value in selected area' is the deepest depth or highest height at any location within your drawn boundary.


N
Environment Agency
Defences removed modelled fluvial extent and height
Location (easting/northing)
386222/393362
Scale
1:500
Created
13 Aug 2024
Model name
Cringle Black Brook 2017
Selected area
Main river
Modelled 2D grid
Water level in mAOD
0 - 40.0
40.0 - 40.375
40.375 - 40.75
40.75 - 41.125
41.125 - 41.5
41.5 - 41.875
41.875 - 42.25
42.25 - 42.625
42.625 - 43.0
This map shows the 0.1% AEP height data
0 5 10 15 20
metres
Wald Avenue
25 26 27 28
21 22 23 24
17 18 19 20
13 14 15 16
9 10 11 12
4 5 6 7 8
1 2 3
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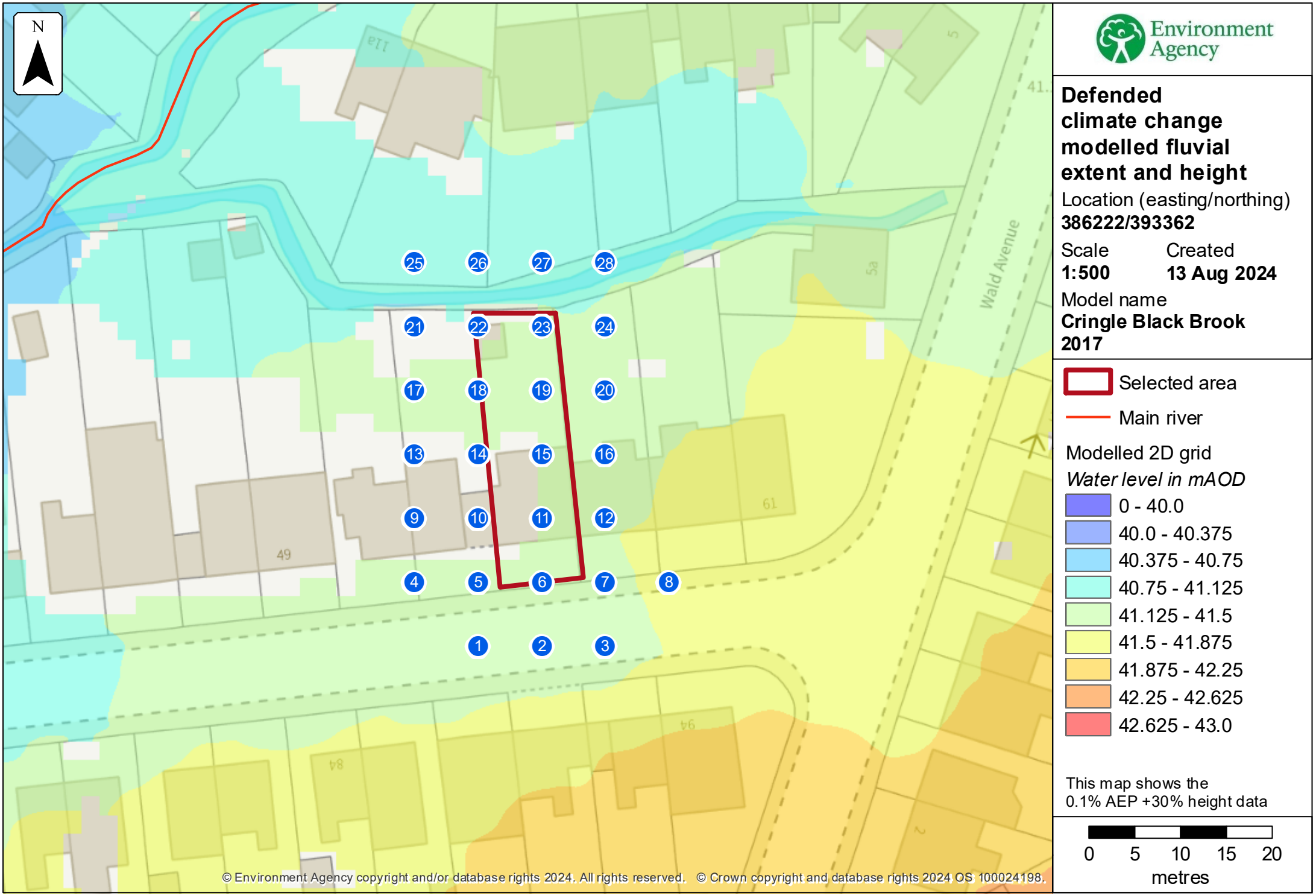
Sample point data

Defences removed

Label	Easting	Northing	0.5% AEP	2% AEP	1% AEP	0.5% AEP	0.1% AEP
			Depth	Height	Height	Height	Height
1	386217	393340	NoData	NoData	NoData	NoData	41.34
2	386224	393340	NoData	NoData	NoData	NoData	41.39
3	386231	393340	NoData	NoData	NoData	NoData	41.43
4	386210	393347	NoData	NoData	NoData	NoData	41.35
5	386217	393347	NoData	NoData	NoData	NoData	41.36
6	386224	393347	NoData	NoData	NoData	NoData	41.36
7	386231	393347	NoData	NoData	NoData	NoData	41.44
8	386238	393347	NoData	NoData	NoData	NoData	41.48
9	386210	393354	NoData	NoData	NoData	NoData	NoData
10	386217	393354	NoData	NoData	NoData	NoData	NoData
11	386224	393354	NoData	NoData	NoData	NoData	NoData
12	386231	393354	NoData	NoData	NoData	NoData	41.44
13	386210	393361	NoData	NoData	NoData	NoData	NoData
14	386217	393361	NoData	NoData	NoData	NoData	NoData
15	386224	393361	NoData	NoData	NoData	NoData	NoData
16	386231	393361	NoData	NoData	NoData	NoData	41.40

Label	Easting	Northing	0.5% AEP	2% AEP	1% AEP	0.5% AEP	0.1% AEP
			Depth	Height	Height	Height	Height
17	386210	393368	NoData	NoData	NoData	NoData	41.30
18	386217	393368	NoData	NoData	NoData	NoData	NoData
19	386224	393368	NoData	NoData	NoData	NoData	41.39
20	386231	393368	NoData	NoData	NoData	NoData	NoData
21	386210	393375	NoData	NoData	NoData	NoData	NoData
22	386217	393375	NoData	NoData	NoData	NoData	NoData
23	386224	393375	NoData	NoData	NoData	NoData	41.34
24	386231	393375	NoData	NoData	NoData	NoData	41.37
25	386210	393382	NoData	NoData	NoData	NoData	40.89
26	386217	393382	NoData	NoData	NoData	NoData	40.91
27	386224	393382	NoData	NoData	NoData	NoData	40.91
28	386231	393382	NoData	NoData	NoData	NoData	40.93
Max value in selected area:			NoData	NoData	NoData	NoData	41.45

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.
If no height or depth data is available for a scenario, no table will be shown.
'Max value in selected area' is the deepest depth or highest height at any location within your drawn boundary.


N
Environment Agency
Defended climate change modelled fluvial extent and height
Location (easting/northing)
386222/393362
Scale
1:500
Created
13 Aug 2024
Model name
Cringle Black Brook 2017
Selected area
Main river
Modelled 2D grid
Water level in mAOD
0 - 40.0
40.0 - 40.375
40.375 - 40.75
40.75 - 41.125
41.125 - 41.5
41.5 - 41.875
41.875 - 42.25
42.25 - 42.625
42.625 - 43.0
This map shows the 0.1% AEP +30% height data
0 5 10 15 20
metres
Wald Avenue
25 26 27 28
21 22 23 24
17 18 19 20
13 14 15 16
9 10 11 12
4 5 6 7 8
1 2 3
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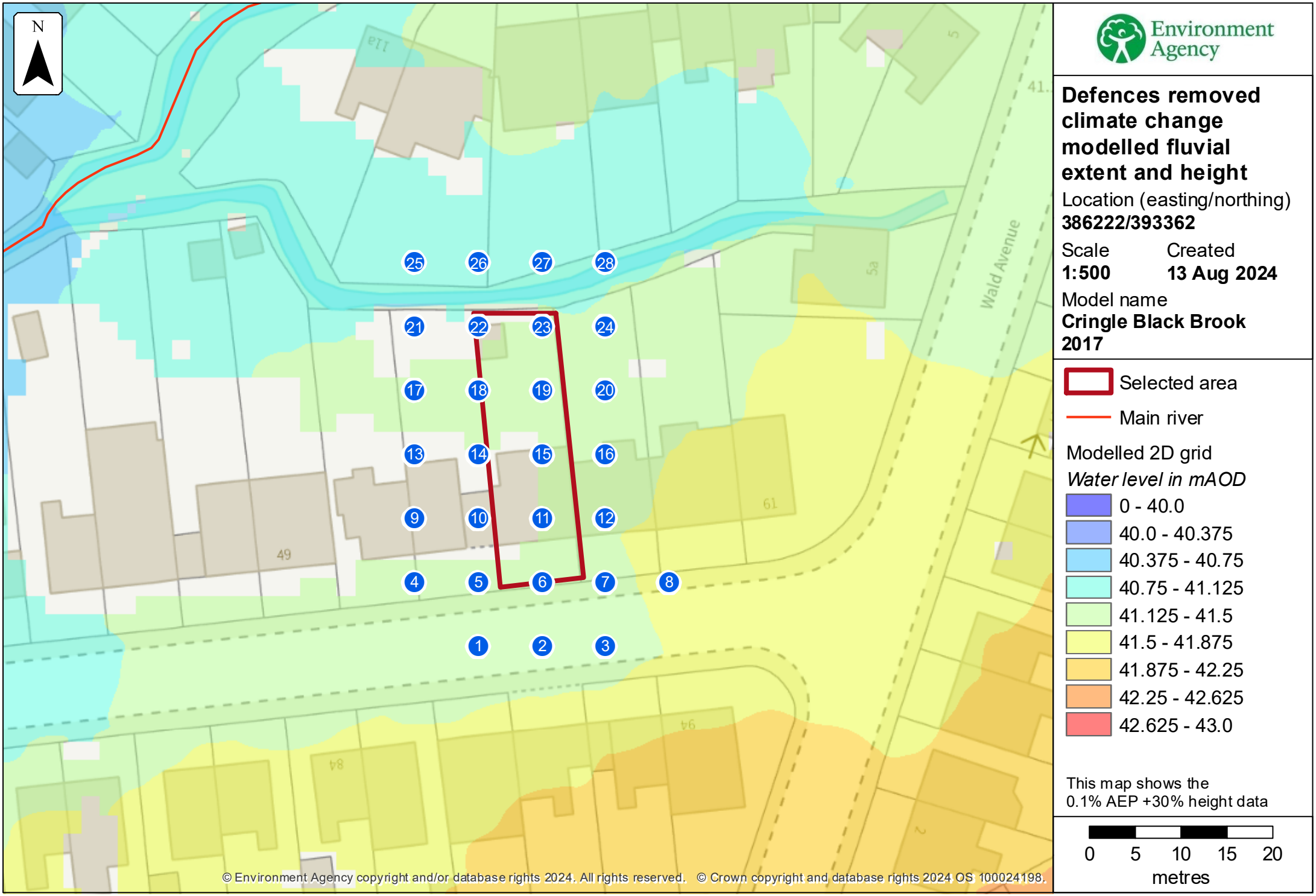
Sample point data

Defended climate change

Label	Easting	Northing	1% AEP (+35%)	1% AEP (+30%)	1% AEP (+70%)	0.1% AEP (+30%)
			Depth	Height	Height	Height
1	386217	393340	NoData	NoData	41.25	41.38
2	386224	393340	NoData	NoData	41.30	41.43
3	386231	393340	NoData	NoData	41.34	41.47
4	386210	393347	NoData	NoData	NoData	41.36
5	386217	393347	NoData	NoData	NoData	41.41
6	386224	393347	NoData	NoData	41.29	41.41
7	386231	393347	NoData	NoData	41.35	41.48
8	386238	393347	NoData	NoData	41.39	41.52
9	386210	393354	NoData	NoData	NoData	NoData
10	386217	393354	NoData	NoData	NoData	NoData
11	386224	393354	NoData	NoData	NoData	41.47
12	386231	393354	NoData	NoData	NoData	41.48
13	386210	393361	NoData	NoData	NoData	NoData
14	386217	393361	NoData	NoData	NoData	NoData
15	386224	393361	NoData	NoData	NoData	41.42
16	386231	393361	NoData	NoData	NoData	41.42

Label	Easting	Northing	1% AEP (+35%)	1% AEP (+30%)	1% AEP (+70%)	0.1% AEP (+30%)
			Depth	Height	Height	Height
17	386210	393368	NoData	NoData	NoData	41.31
18	386217	393368	NoData	NoData	NoData	41.39
19	386224	393368	NoData	NoData	NoData	41.41
20	386231	393368	NoData	NoData	NoData	41.42
21	386210	393375	NoData	NoData	NoData	NoData
22	386217	393375	NoData	NoData	NoData	NoData
23	386224	393375	NoData	NoData	NoData	41.37
24	386231	393375	NoData	NoData	NoData	41.39
25	386210	393382	NoData	NoData	40.79	40.96
26	386217	393382	NoData	NoData	40.79	40.99
27	386224	393382	NoData	NoData	40.79	41.00
28	386231	393382	NoData	NoData	40.79	41.01
Max value in selected area:			NoData	NoData	41.29	41.48

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.
If no height or depth data is available for a scenario, no table will be shown.
'Max value in selected area' is the deepest depth or highest height at any location within your drawn boundary.


N
Environment Agency
Defences removed climate change modelled fluvial extent and height
Location (easting/northing)
386222/393362
Scale
1:500
Created
13 Aug 2024
Model name
Cringle Black Brook 2017
Selected area
Main river
Modelled 2D grid
Water level in mAOD
0 - 40.0
40.0 - 40.375
40.375 - 40.75
40.75 - 41.125
41.125 - 41.5
41.5 - 41.875
41.875 - 42.25
42.25 - 42.625
42.625 - 43.0
This map shows the 0.1% AEP +30% height data
0 5 10 15 20
metres
Wald Avenue
25 26 27 28
21 22 23 24
17 18 19 20
13 14 15 16
9 10 11 12
4 5 6 7 8
1 2 3
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Sample point data

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	386217	393340	NoData	NoData	0.10	0.24
2	386224	393340	NoData	NoData	0.12	0.25
3	386231	393340	NoData	NoData	0.10	0.24
4	386210	393347	NoData	NoData	NoData	0.02
5	386217	393347	NoData	NoData	NoData	0.09
6	386224	393347	NoData	NoData	0.00	0.10
7	386231	393347	NoData	NoData	0.02	0.14
8	386238	393347	NoData	NoData	0.10	0.23
9	386210	393354	NoData	NoData	NoData	NoData
10	386217	393354	NoData	NoData	NoData	NoData
11	386224	393354	NoData	NoData	NoData	0.01
12	386231	393354	NoData	NoData	NoData	0.09
13	386210	393361	NoData	NoData	NoData	NoData
14	386217	393361	NoData	NoData	NoData	NoData
15	386224	393361	NoData	NoData	NoData	0.00
16	386231	393361	NoData	NoData	NoData	0.10

Label	Easting	Northing	1% AEP (+30%)	1% AEP (+35%)	1% AEP (+70%)	0.1% AEP (+30%)
			Depth	Depth	Depth	Depth
17	386210	393368	NoData	NoData	NoData	0.02
18	386217	393368	NoData	NoData	NoData	0.00
19	386224	393368	NoData	NoData	NoData	0.08
20	386231	393368	NoData	NoData	NoData	0.02
21	386210	393375	NoData	NoData	NoData	NoData
22	386217	393375	NoData	NoData	NoData	NoData
23	386224	393375	NoData	NoData	NoData	0.01
24	386231	393375	NoData	NoData	NoData	0.04
25	386210	393382	NoData	NoData	0.26	0.43
26	386217	393382	NoData	NoData	0.47	0.67
27	386224	393382	NoData	NoData	0.32	0.52
28	386231	393382	NoData	NoData	0.51	0.73
Max value in selected area:			NoData	NoData	0.03	0.16

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.
If no height or depth data is available for a scenario, no table will be shown.
'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%)
			Height	Height	Height	Height
1	386217	393340	NoData	NoData	41.25	41.38
2	386224	393340	NoData	NoData	41.30	41.43
3	386231	393340	NoData	NoData	41.34	41.47
4	386210	393347	NoData	NoData	NoData	41.36
5	386217	393347	NoData	NoData	NoData	41.41
6	386224	393347	NoData	NoData	41.29	41.41
7	386231	393347	NoData	NoData	41.35	41.48
8	386238	393347	NoData	NoData	41.39	41.52
9	386210	393354	NoData	NoData	NoData	NoData
10	386217	393354	NoData	NoData	NoData	NoData
11	386224	393354	NoData	NoData	NoData	41.47
12	386231	393354	NoData	NoData	NoData	41.48
13	386210	393361	NoData	NoData	NoData	NoData
14	386217	393361	NoData	NoData	NoData	NoData
15	386224	393361	NoData	NoData	NoData	41.42
16	386231	393361	NoData	NoData	NoData	41.42
17	386210	393368	NoData	NoData	NoData	41.31

Label	Easting	Northing	1% AEP (+30%)	1% AEP (+35%)	1% AEP (+70%)	0.1% AEP (+30%)
			Height	Height	Height	Height
18	386217	393368	NoData	NoData	NoData	41.39
19	386224	393368	NoData	NoData	NoData	41.41
20	386231	393368	NoData	NoData	NoData	41.42
21	386210	393375	NoData	NoData	NoData	NoData
22	386217	393375	NoData	NoData	NoData	NoData
23	386224	393375	NoData	NoData	NoData	41.37
24	386231	393375	NoData	NoData	NoData	41.39
25	386210	393382	NoData	NoData	40.79	40.96
26	386217	393382	NoData	NoData	40.79	40.99
27	386224	393382	NoData	NoData	40.79	41.00
28	386231	393382	NoData	NoData	40.79	41.01
Max value in selected area:			NoData	NoData	41.29	41.48

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.
If no height or depth data is available for a scenario, no table will be shown.
'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.

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