

Flood risk assessment data

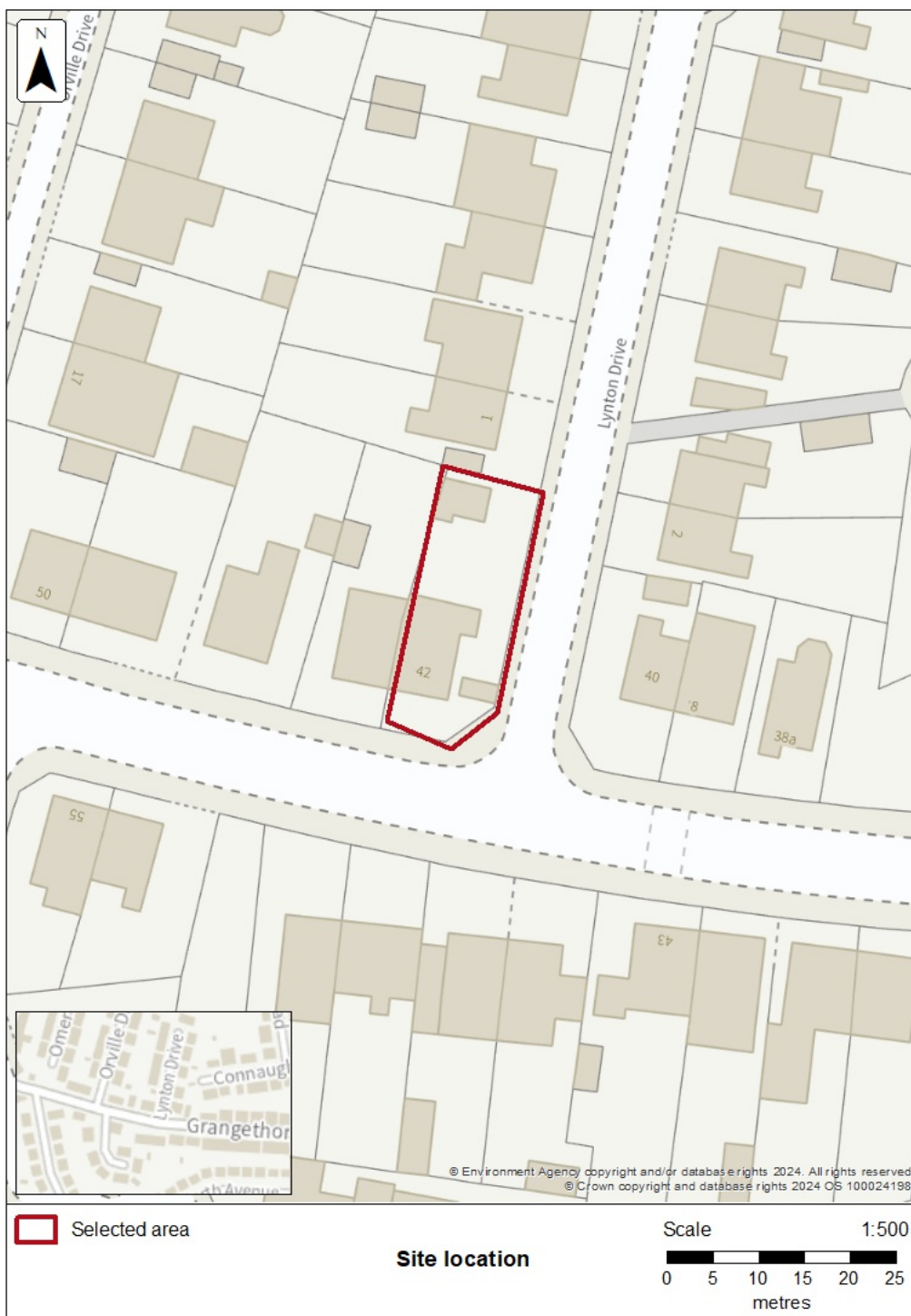
Location of site: 386560 / 393308 (shown as easting and northing coordinates)

Document created on: 5 June 2024

This information was previously known as a product 4.

Customer reference number: 6GW1E7V69XG9

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

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

These models contain 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 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

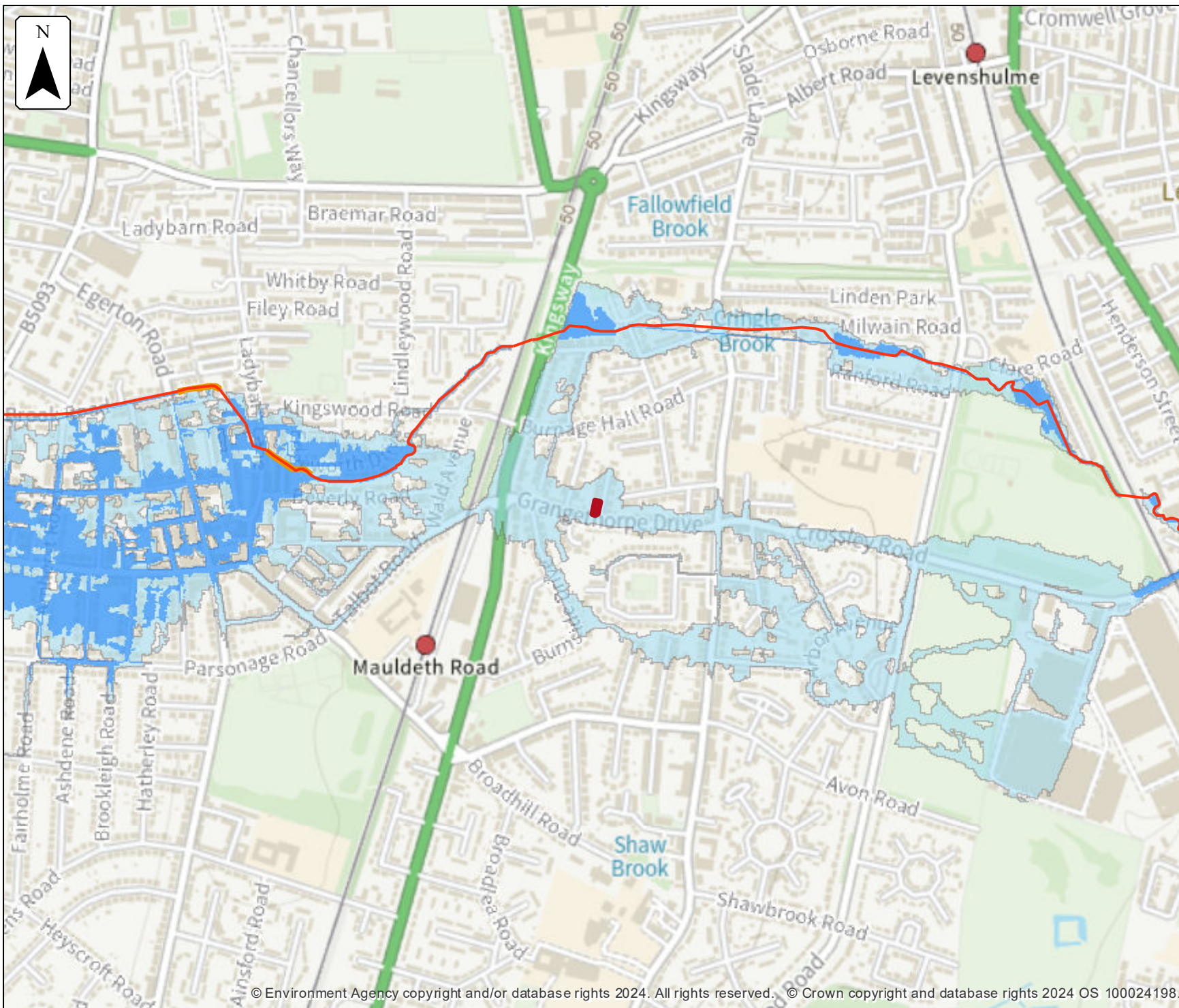
Flood zone 2 shows the area at risk of flooding for an undefended flood event with:

- 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.



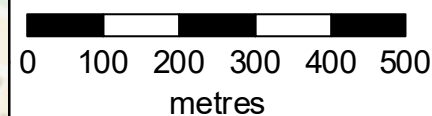
Flood map for planning

Location (easting/northing)
386560/393308

Scale
1:10,000

Created
5 Jun 2024

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



Flood defences and attributes

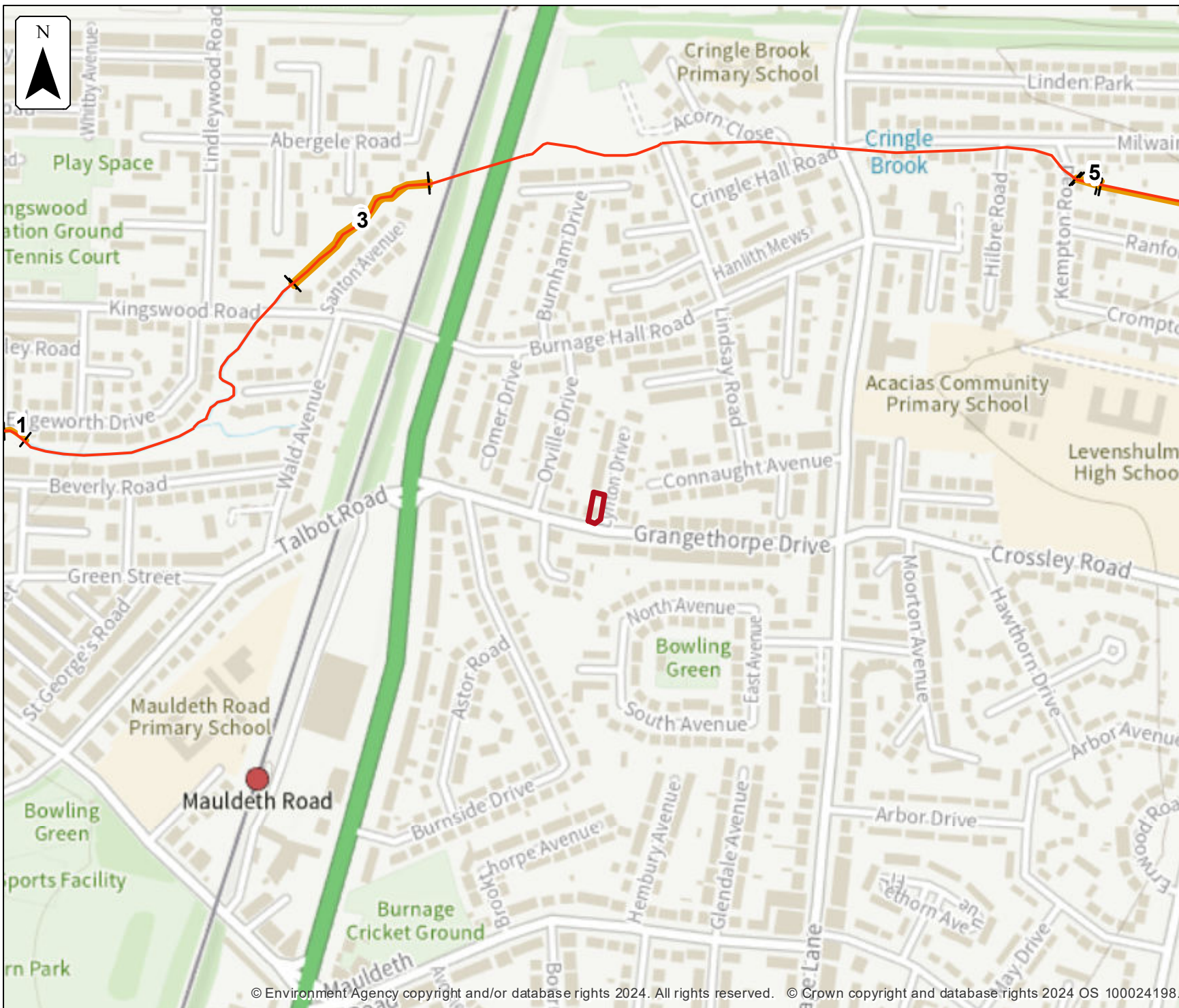
The flood defences map shows the location of the flood defences present.

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



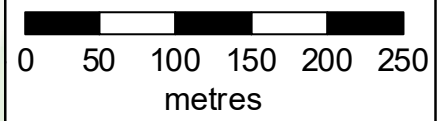
Flood defences

Location (easting/northing)
386560/393308

Scale
1:5,000

Created
5 Jun 2024

-  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	9557	Engineered High Ground	100		39.86	39.89	
2	7427	Engineered High Ground	100		40.24	44.26	
3	9636	Engineered High Ground	100		43.83	41.26	
4	71686	Engineered High Ground	100		47.89	48.71	
5	58923	Engineered High Ground	100		47.70	48.55	
6	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

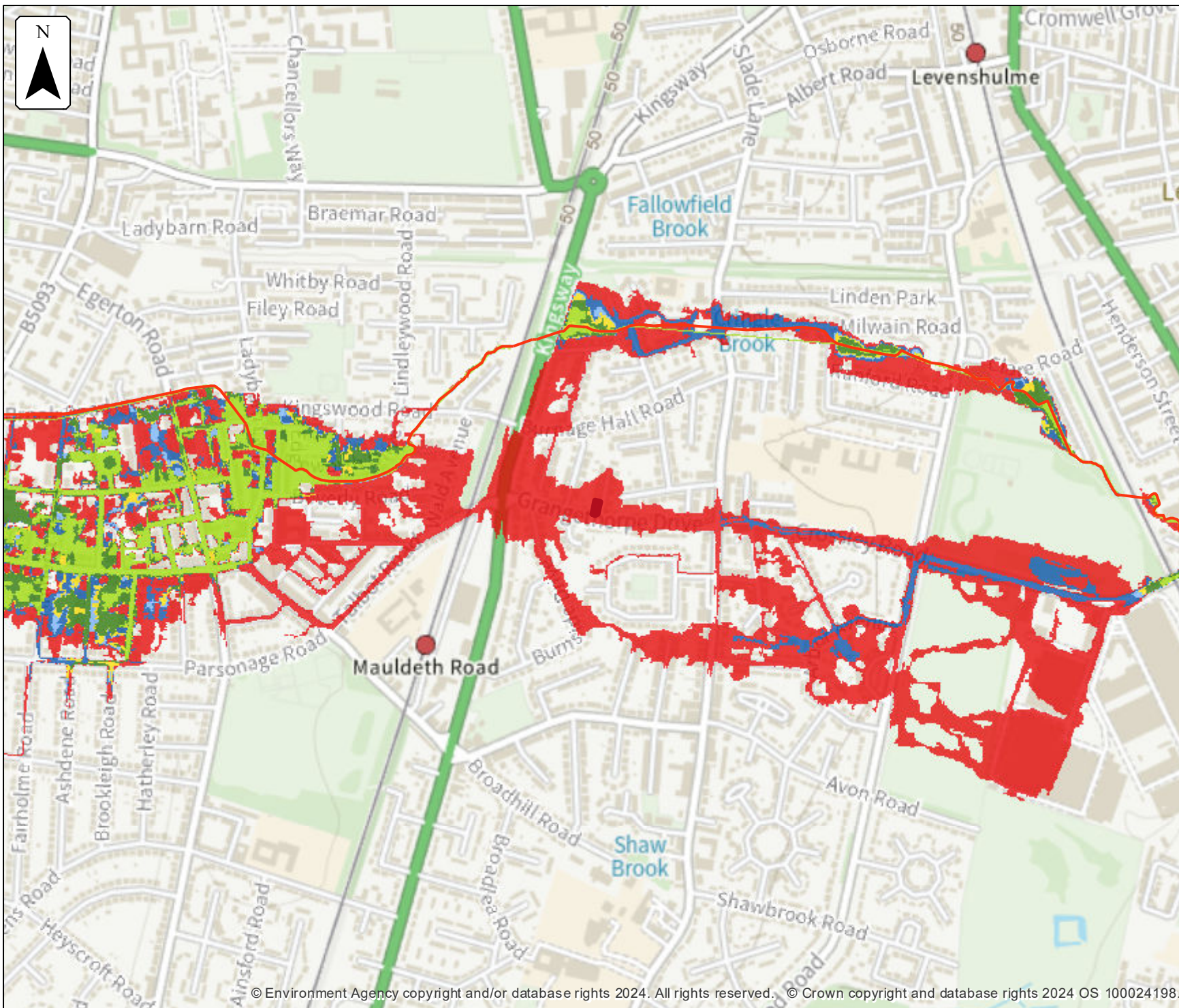
The climate change data included in the models may not include the latest [flood risk assessment climate change allowances](#). Where the new allowances are not available you will need to consider this data and factor in the new allowances to demonstrate the development will be safe from flooding.

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



Defended modelled fluvial extent

Location (easting/northing)
386560/393308

Scale Created
1:10,000 5 Jun 2024

Model name
**Cringle Black Brook
2017**

 Selected area

 Main river

Modelled flood extent

 5% AEP

 2% AEP

 1.33% AEP

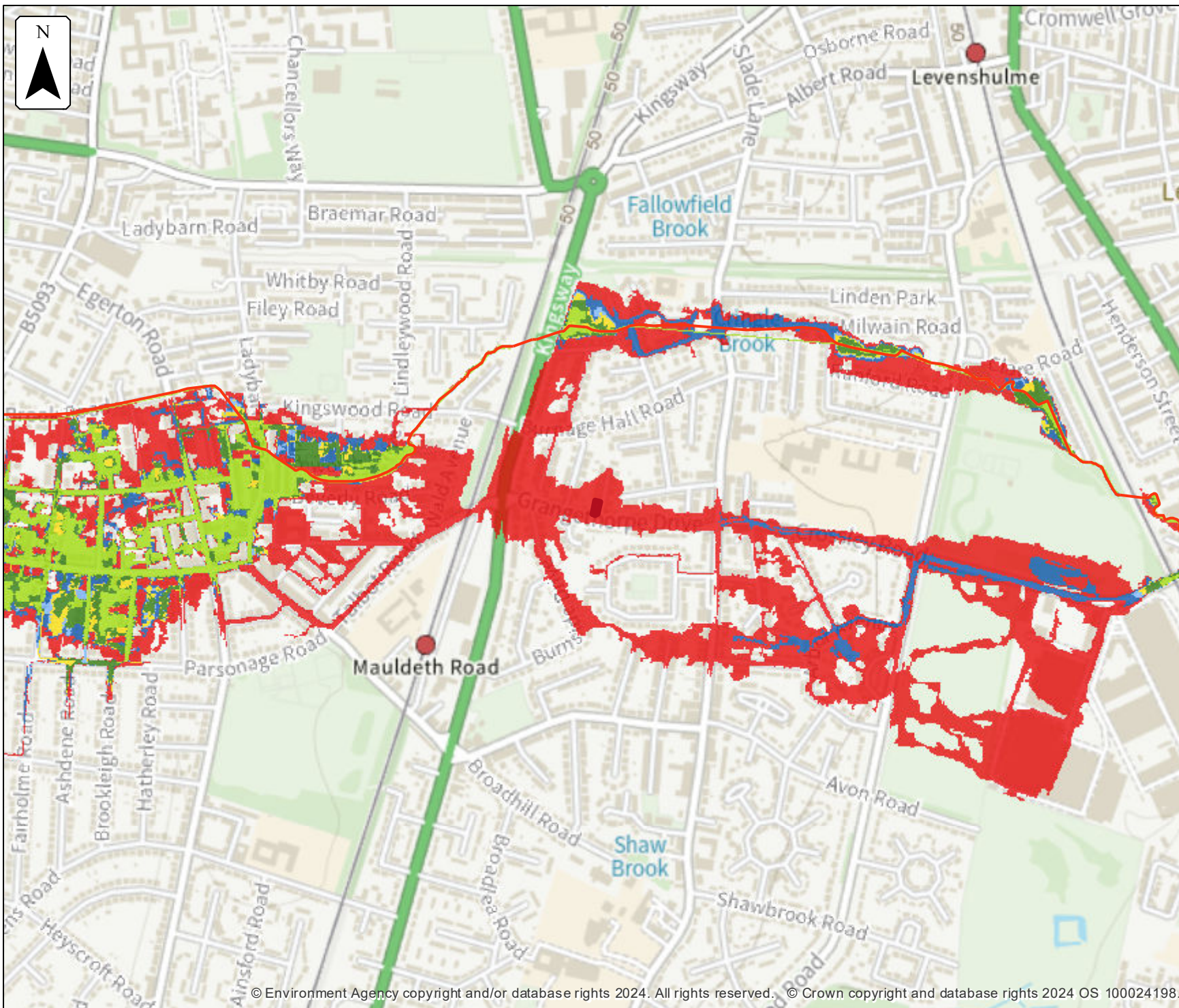
 1% AEP

 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



Defences removed modelled fluvial extent

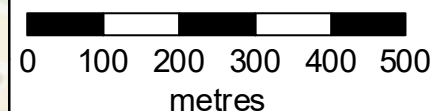
Location (easting/northing)
386560/393308

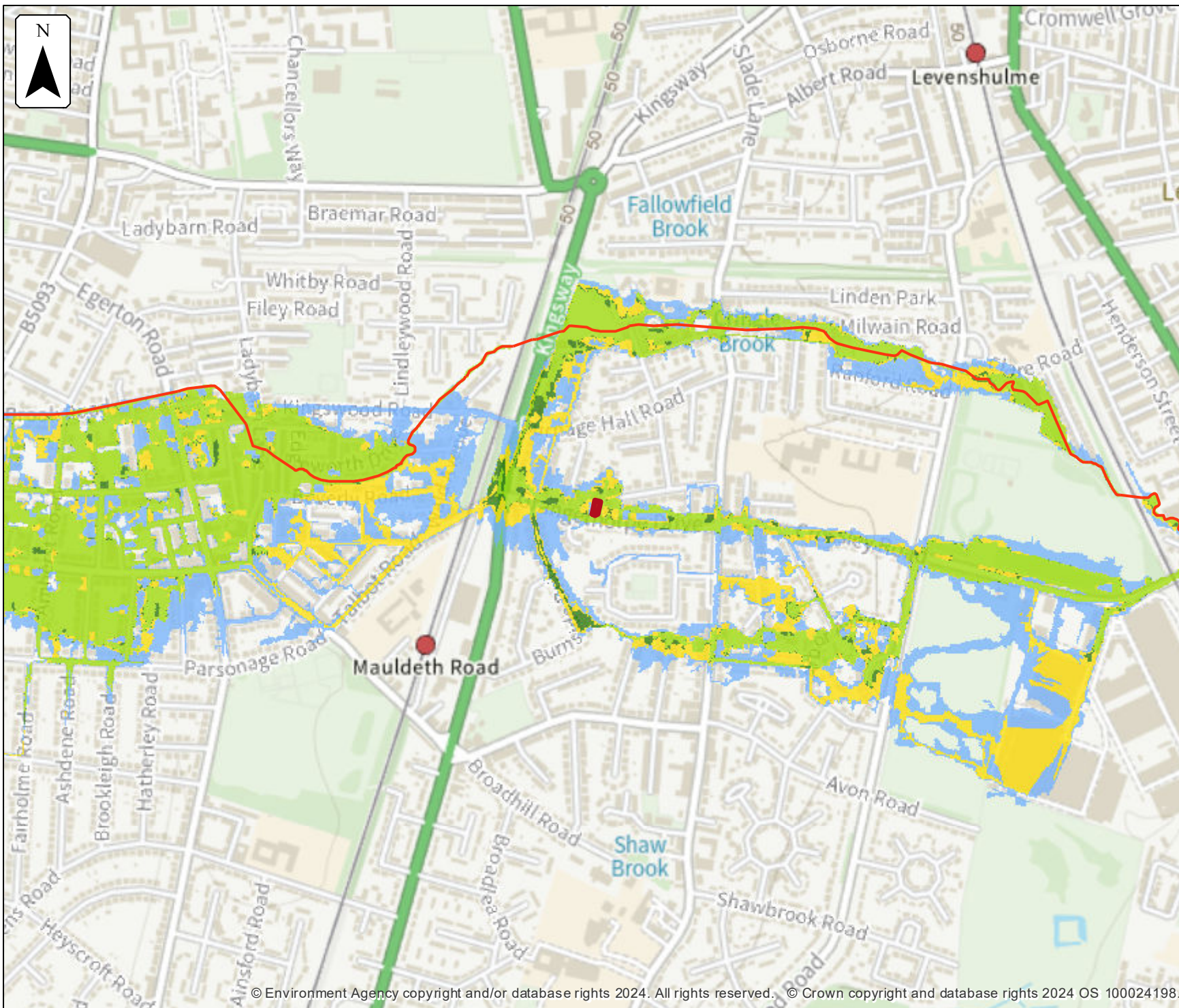
Scale Created
1:10,000 5 Jun 2024

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





**Defended
climate change
modelled fluvial extent**

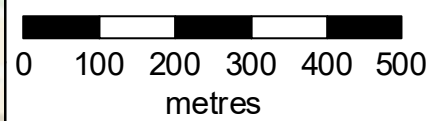
Location (easting/northing)
386560/393308

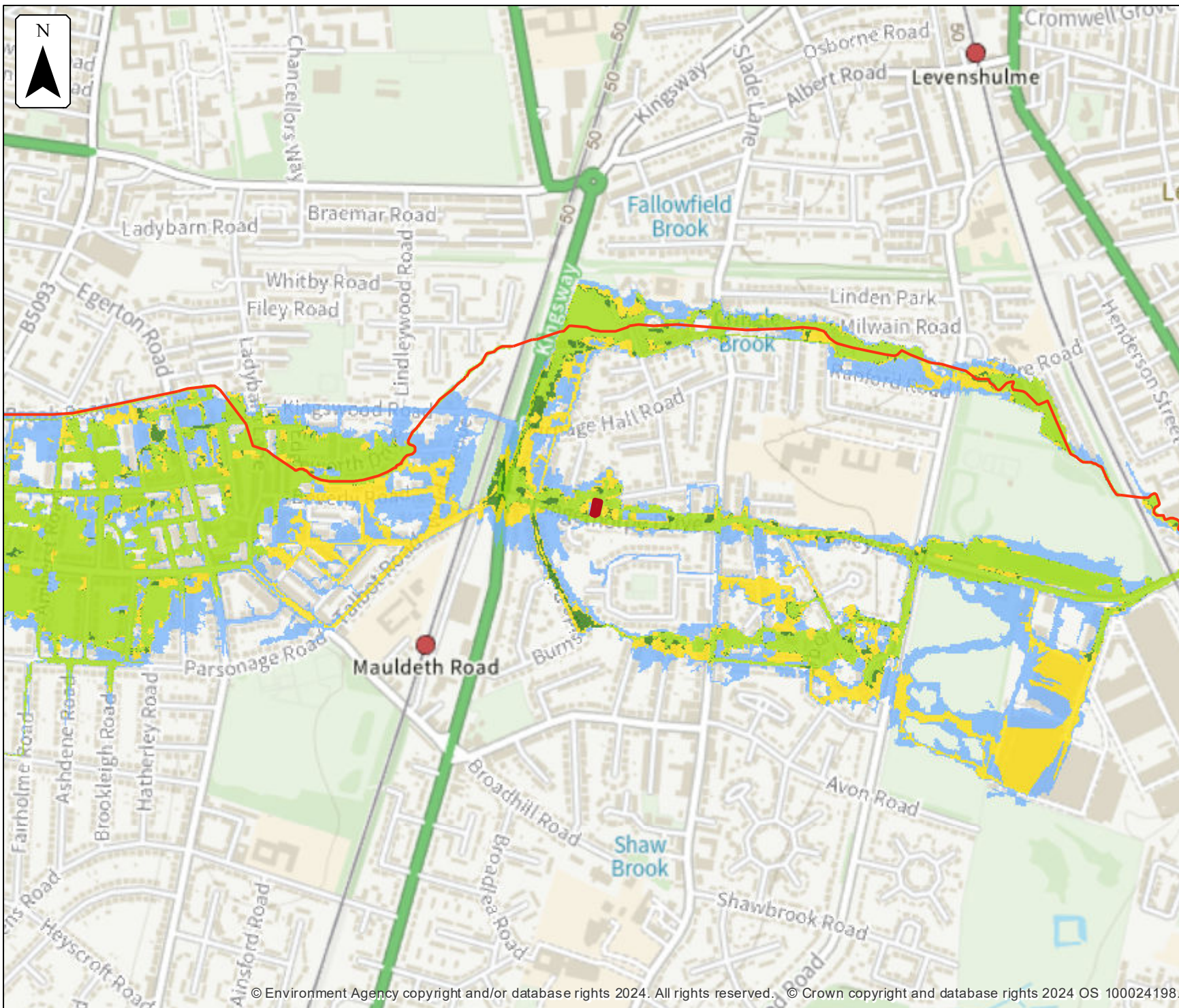
Scale Created
1:10,000 5 Jun 2024

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





**Defences removed
climate change
modelled fluvial extent**

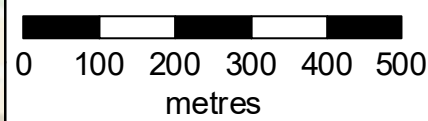
Location (easting/northing)
386560/393308

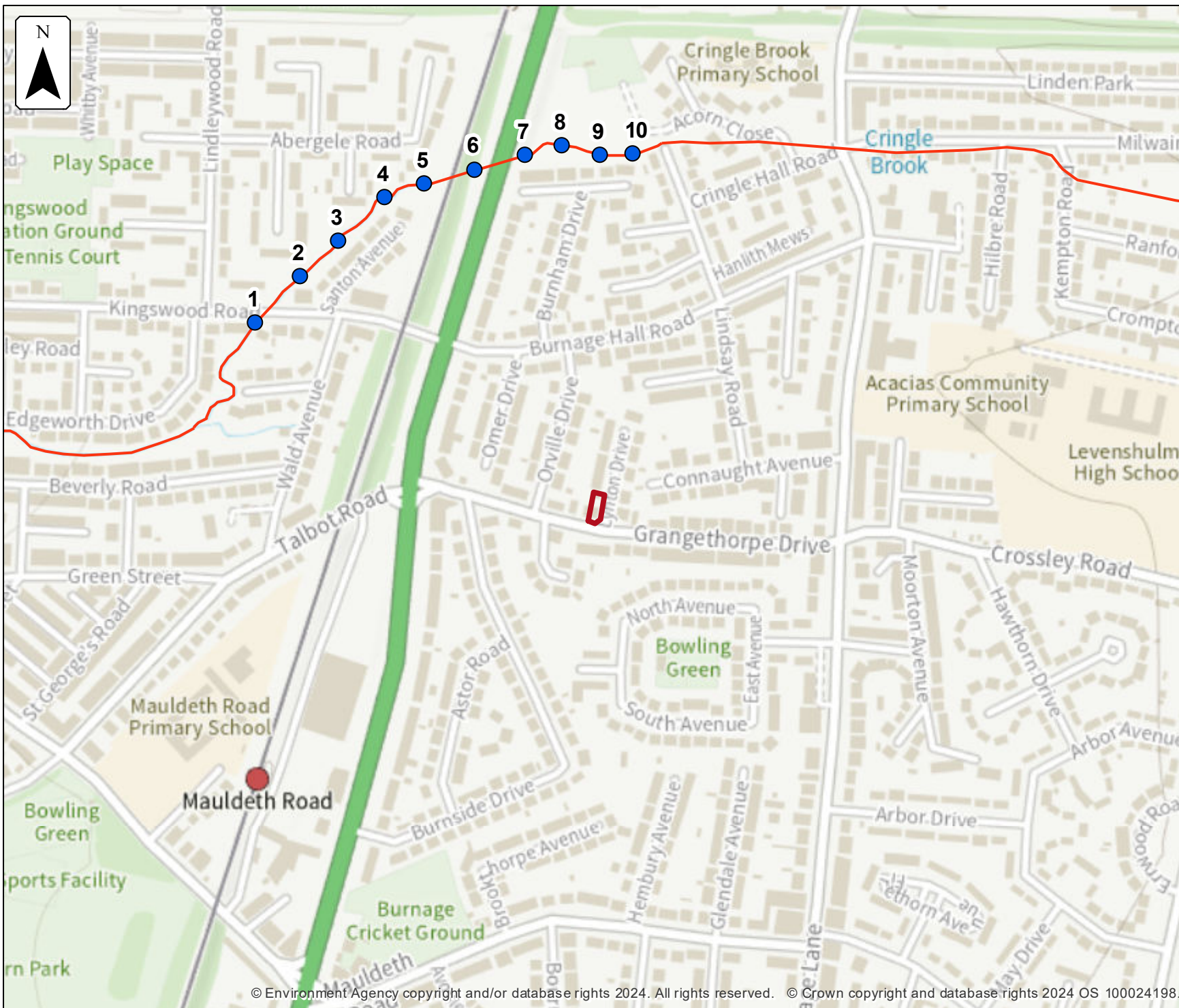
Scale Created
1:10,000 5 Jun 2024

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





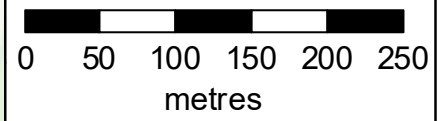
**Defended modelled
fluvial
node locations**

Location (easting/northing)
386560/393308

Scale Created
1:5,000 5 Jun 2024

Model name
**Cringle Black Brook
2017**

-  Selected area
-  Modelled location
-  Main river



Modelled node locations data

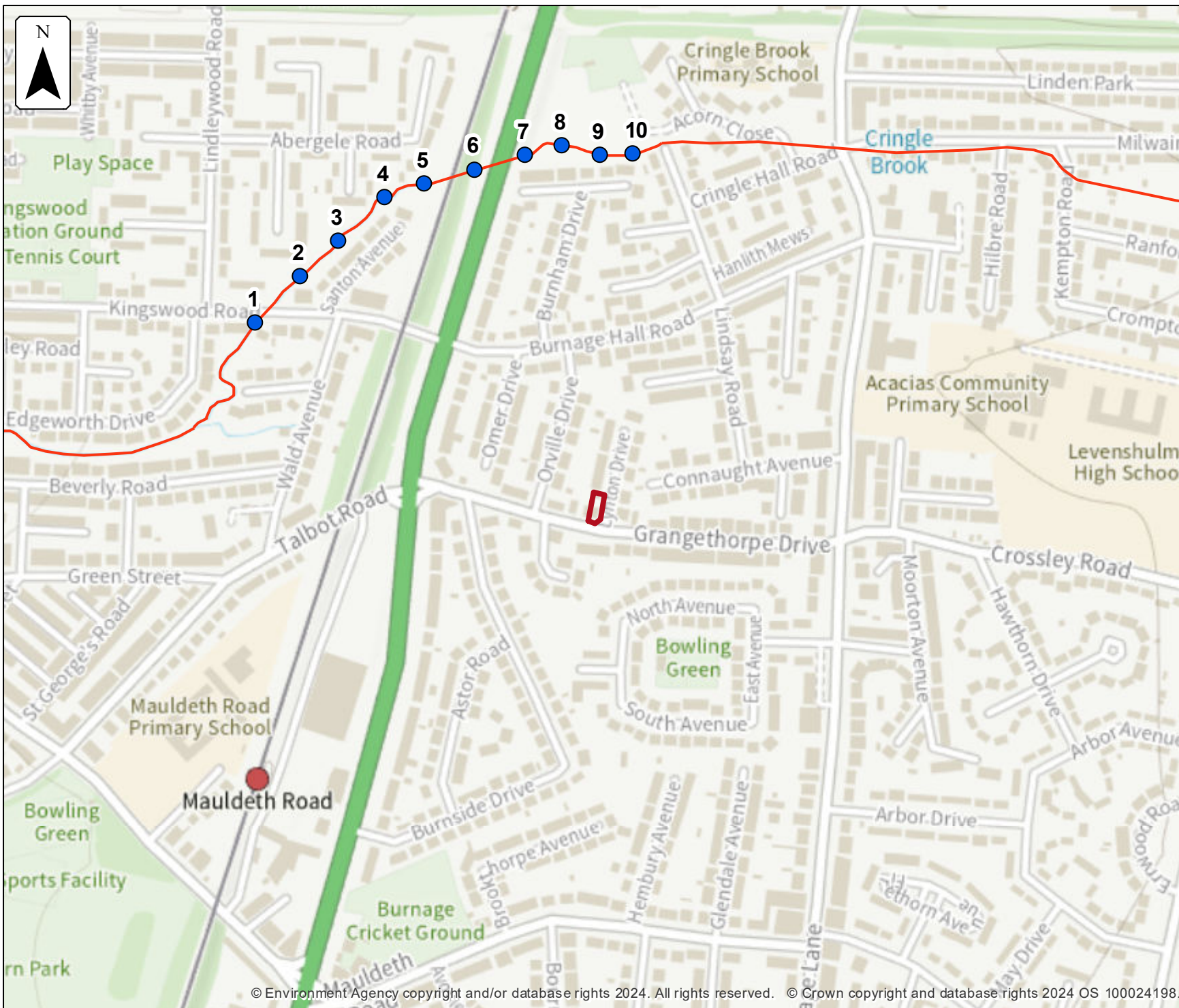
Defended

Label	Modelled location ID	Easting	Northing	5% AEP		2% AEP		1.33% AEP		1% AEP		0.5% AEP		0.1% AEP	
				Level	Flow	Level	Flow	Level	Flow	Level	Flow	Level	Flow	Level	Flow
1	1440069	386229	393488	40.63	3.80	40.68	4.11	40.70	4.29	40.71	4.37	40.73	4.57	40.84	5.54
2	1440135	386273	393533	40.88	3.54	40.95	3.91	40.99	4.08	41.01	4.16	41.06	4.37	41.31	4.87
3	1440156	386309	393567	41.42	3.54	41.47	3.91	41.50	4.07	41.51	4.16	41.54	4.37	41.62	4.87
4	1440095	386354	393609	41.73	3.54	41.79	3.91	41.81	4.07	41.82	4.16	41.85	4.37	41.91	4.87
5	1440111	386394	393622	42.13	3.54	42.17	3.91	42.20	4.08	42.21	4.16	42.23	4.37	42.28	4.87
6	1440048	386443	393636	42.65	3.54	42.80	3.91	42.87	4.08	42.91	4.16	43.02	4.37	43.25	4.87
7	1440039	386491	393650	43.53	3.54	43.89	3.91	44.06	4.08	44.16	4.16	44.40	4.37	44.99	4.87
8	1440102	386527	393659	43.56	3.62	43.91	3.81	44.08	3.80	44.18	3.98	44.41	4.27	44.99	5.73
9	1440091	386565	393650	43.60	3.39	43.93	3.78	44.09	3.94	44.18	4.04	44.42	4.40	44.99	6.28
10	1440159	386596	393651	43.62	3.40	43.93	3.91	44.09	4.18	44.18	4.33	44.41	4.67	44.99	6.39

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.



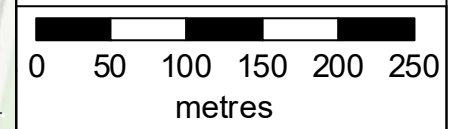
Defences removed modelled fluvial node locations

Location (easting/northing)
386560/393308

Scale Created
1:5,000 5 Jun 2024

Model name
Cringle Black Brook 2017

-  Selected area
-  Modelled location
-  Main river



Modelled node locations data

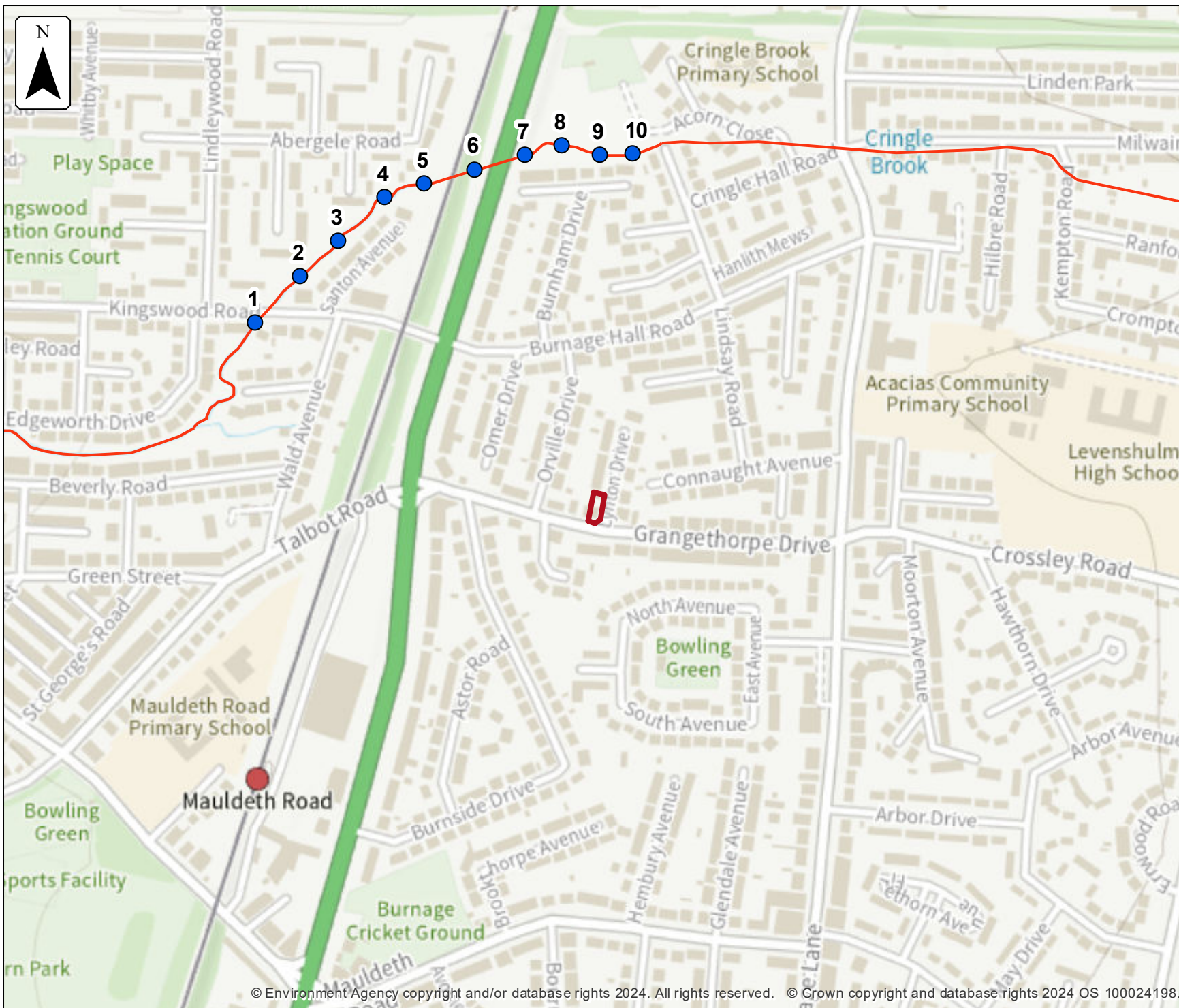
Defences removed

Label	Modelled location ID	Easting	Northing	5% AEP		2% AEP		1.33% AEP		1% AEP		0.5% AEP		0.1% AEP	
				Level	Flow	Level	Flow	Level	Flow	Level	Flow	Level	Flow	Level	Flow
1	1440069	386229	393488	40.63	3.80	40.68	4.11	40.70	4.29	40.71	4.37	40.73	4.57	40.84	5.54
2	1440135	386273	393533	40.88	3.54	40.95	3.91	40.99	4.08	41.01	4.16	41.06	4.37	41.31	4.87
3	1440156	386309	393567	41.42	3.54	41.47	3.91	41.50	4.07	41.51	4.16	41.54	4.37	41.62	4.87
4	1440095	386354	393609	41.73	3.54	41.79	3.91	41.81	4.07	41.82	4.16	41.85	4.37	41.91	4.87
5	1440111	386394	393622	42.13	3.54	42.17	3.91	42.20	4.08	42.21	4.16	42.23	4.37	42.28	4.87
6	1440048	386443	393636	42.65	3.54	42.80	3.91	42.87	4.08	42.91	4.16	43.02	4.37	43.25	4.87
7	1440039	386491	393650	43.53	3.54	43.89	3.91	44.06	4.08	44.16	4.16	44.40	4.37	44.99	4.87
8	1440102	386527	393659	43.56	3.62	43.91	3.81	44.08	3.80	44.18	3.98	44.41	4.27	44.99	5.73
9	1440091	386565	393650	43.60	3.39	43.93	3.78	44.09	3.94	44.18	4.04	44.42	4.40	44.99	6.28
10	1440159	386596	393651	43.62	3.40	43.93	3.91	44.09	4.18	44.18	4.33	44.41	4.67	44.99	6.39

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.



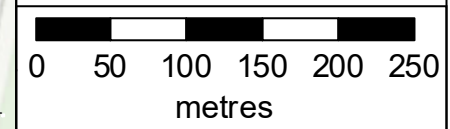
Defended climate change modelled fluvial node locations

Location (easting/northing)
386560/393308

Scale Created
1:5,000 5 Jun 2024

Model name
Cringle Black Brook 2017

- Selected area
- Modelled location
- Main river



Modelled node locations data

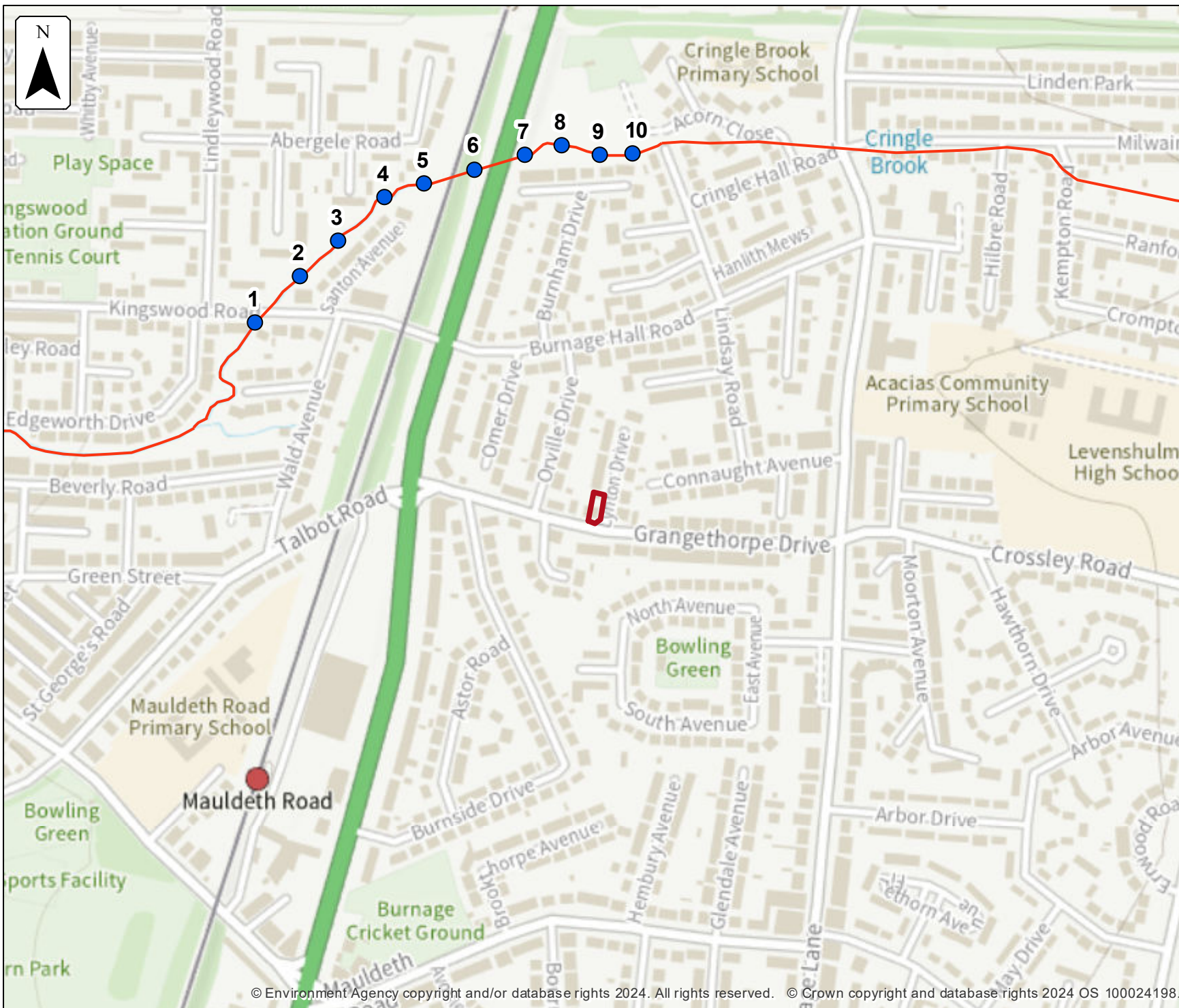
Defended climate change

Label	Modelled location ID	Easting	Northing	1.0% AEP (+30%)		1.0% AEP (+35%)		1.0% AEP (+70%)		0.1% AEP (+30%)	
				Level	Flow	Level	Flow	Level	Flow	Level	Flow
1	1440069	386229	393488	40.75	4.73	40.76	4.79	40.79	5.06	40.88	5.78
2	1440135	386273	393533	41.09	4.53	41.11	4.58	41.18	4.77	41.37	4.96
3	1440156	386309	393567	41.56	4.53	41.57	4.58	41.60	4.77	41.64	4.96
4	1440095	386354	393609	41.87	4.53	41.87	4.58	41.90	4.77	41.92	4.96
5	1440111	386394	393622	42.25	4.53	42.25	4.58	42.27	4.77	42.29	4.96
6	1440048	386443	393636	43.09	4.53	43.11	4.58	43.20	4.77	43.30	4.96
7	1440039	386491	393650	44.58	4.53	44.64	4.58	44.86	4.77	45.10	4.96
8	1440102	386527	393659	44.59	4.34	44.65	4.42	44.87	5.06	45.10	6.54
9	1440091	386565	393650	44.59	4.69	44.65	4.85	44.87	5.70	45.10	7.05
10	1440159	386596	393651	44.59	4.96	44.64	5.13	44.86	5.85	45.10	7.16

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.



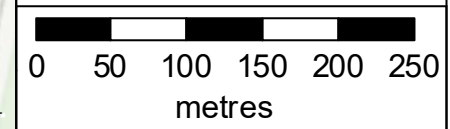
Defences removed climate change modelled fluvial node locations

Location (easting/northing)
386560/393308

Scale Created
1:5,000 5 Jun 2024

Model name
**Cringle Black Brook
2017**

-  Selected area
-  Modelled location
-  Main river



Modelled node locations data

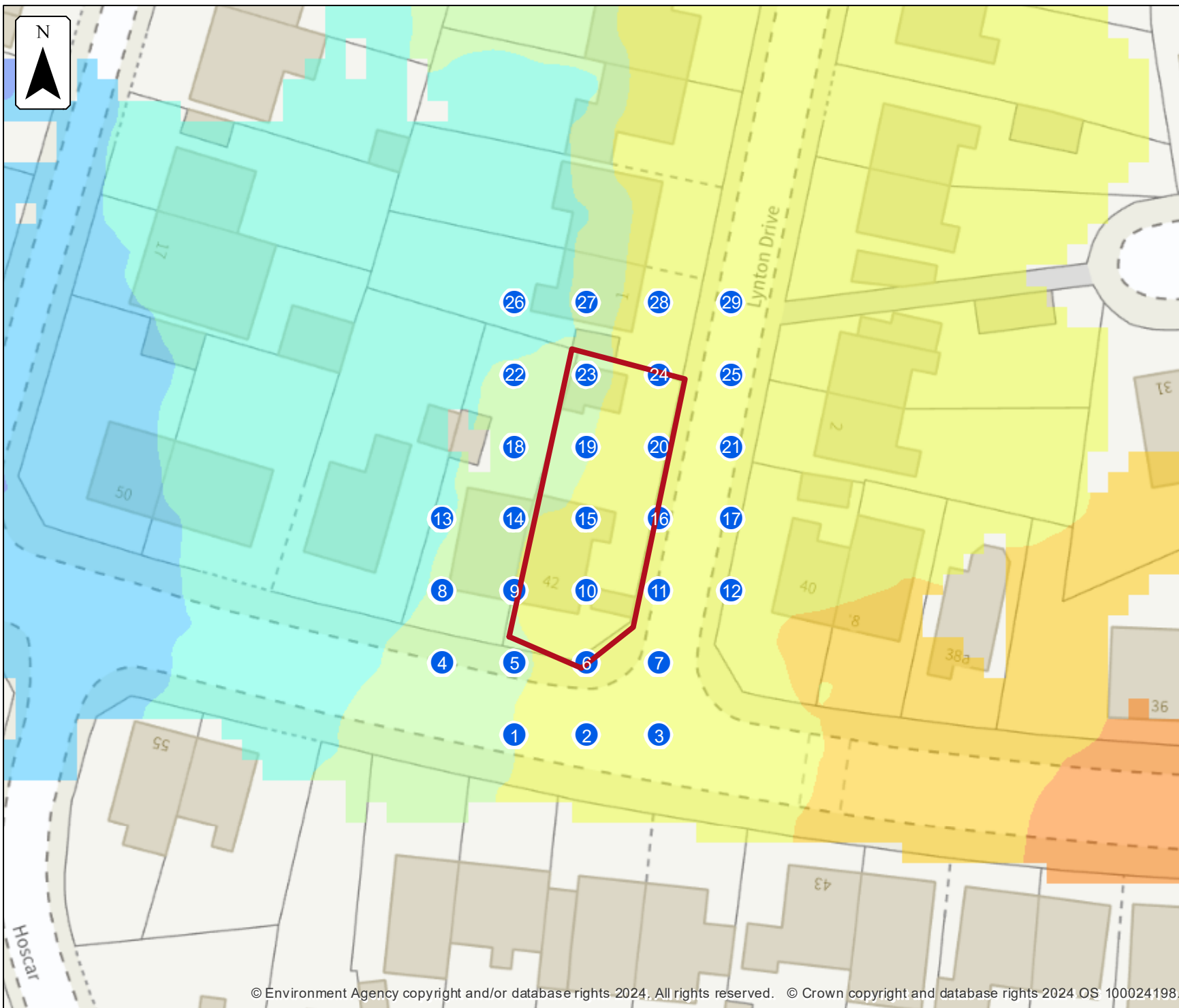
Defences removed climate change

Label	Modelled location ID	Easting	Northing	1.0% AEP (+30%)		1.0% AEP (+35%)		1.0% AEP (+70%)		0.1% AEP (+30%)	
				Level	Flow	Level	Flow	Level	Flow	Level	Flow
1	1440069	386229	393488	40.75	4.73	40.76	4.79	40.79	5.06	40.88	5.78
2	1440135	386273	393533	41.09	4.53	41.11	4.58	41.18	4.77	41.37	4.96
3	1440156	386309	393567	41.56	4.53	41.57	4.58	41.60	4.77	41.64	4.96
4	1440095	386354	393609	41.87	4.53	41.87	4.58	41.90	4.77	41.92	4.96
5	1440111	386394	393622	42.25	4.53	42.25	4.58	42.27	4.77	42.29	4.96
6	1440048	386443	393636	43.09	4.53	43.11	4.58	43.20	4.77	43.30	4.96
7	1440039	386491	393650	44.58	4.53	44.64	4.58	44.86	4.77	45.10	4.96
8	1440102	386527	393659	44.59	4.34	44.65	4.42	44.87	5.06	45.10	6.54
9	1440091	386565	393650	44.59	4.69	44.65	4.85	44.87	5.70	45.10	7.05
10	1440159	386596	393651	44.59	4.96	44.64	5.13	44.86	5.85	45.10	7.16

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)
386560/393308

Scale Created
1:500 5 Jun 2024

Model name
**Cringle Black Brook
2017**

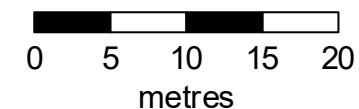
-  Selected area
-  Main river

Modelled 2D grid

Water level in mAOD

-  0 - 43.0
-  43.0 - 43.25
-  43.25 - 43.5
-  43.5 - 43.75
-  43.75 - 44.0
-  44.0 - 44.25
-  44.25 - 44.5
-  44.5 - 44.75
-  44.75 - 45.0

This map shows the
0.1% AEP height data



Sample point data

Defended

Label	Easting	Northing	5% AEP		2% AEP		1.33% AEP		1% AEP		0.5% AEP		0.1% AEP	
			Depth	Height	Depth	Height	Depth	Height	Depth	Height	Depth	Height	Depth	Height
1	386552	393286				NoData	NoData	NoData			NoData			44.00
2	386559	393286				NoData	NoData	NoData			NoData			44.05
3	386566	393286				NoData	NoData	NoData			NoData			44.13
4	386545	393293				NoData	NoData	NoData			NoData			43.88
5	386552	393293				NoData	NoData	NoData			NoData			43.97
6	386559	393293				NoData	NoData	NoData			NoData			44.08
7	386566	393293				NoData	NoData	NoData			NoData			44.09
8	386545	393300				NoData	NoData	NoData			NoData			43.83
9	386552	393300				NoData	NoData	NoData			NoData			44
10	386559	393300				NoData	NoData	NoData			NoData			44.08
11	386566	393300				NoData	NoData	NoData			NoData			44.06
12	386573	393300				NoData	NoData	NoData			NoData			44.08
13	386545	393307				NoData	NoData	NoData			NoData			43.68
14	386552	393307				NoData	NoData	NoData			NoData			43.95
15	386559	393307				NoData	NoData	NoData			NoData			44.04
16	386566	393307				NoData	NoData	NoData			NoData			44.05

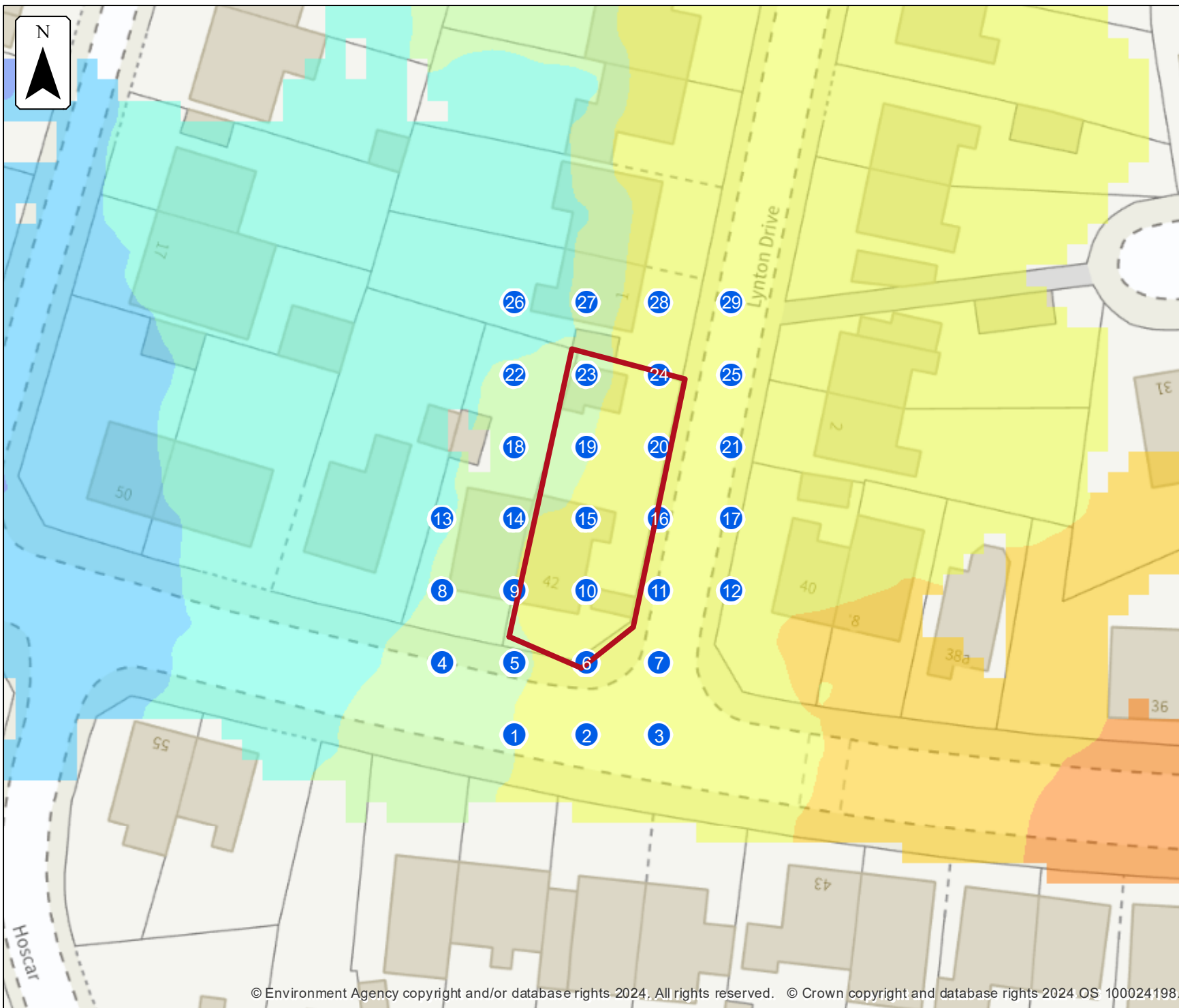
Label	Easting	Northing	5% AEP		2% AEP		1.33% AEP		1% AEP		0.5% AEP		0.1% AEP	
			Depth	Height	Depth	Height	Depth	Height	Depth	Height	Depth	Height	Depth	Height
17	386573	393307				NoData	NoData	NoData			NoData			44.06
18	386552	393314				NoData	NoData	NoData			NoData			43.84
19	386559	393314				NoData	NoData	NoData			NoData			43.99
20	386566	393314				NoData	NoData	NoData			NoData			44.04
21	386573	393314				NoData	NoData	NoData			NoData			44.05
22	386552	393321				NoData	NoData	NoData			NoData			43.78
23	386559	393321				NoData	NoData	NoData			NoData			43.93
24	386566	393321				NoData	NoData	NoData			NoData			44.04
25	386573	393321				NoData	NoData	NoData			NoData			44.05
26	386552	393328				NoData	NoData	NoData			NoData			43.61
27	386559	393328				NoData	NoData	NoData			NoData			43.86
28	386566	393328				NoData	NoData	NoData			NoData			44.05
29	386573	393328				NoData	NoData	NoData			NoData			44.05

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.



Defences removed modelled fluvial extent and height

Location (easting/northing)
386560/393308

Scale Created
1:500 5 Jun 2024

Model name
**Cringle Black Brook
2017**

 Selected area
 Main river

Modelled 2D grid
Water level in mAOD

	0 - 43.0
	43.0 - 43.25
	43.25 - 43.5
	43.5 - 43.75
	43.75 - 44.0
	44.0 - 44.25
	44.25 - 44.5
	44.5 - 44.75
	44.75 - 45.0

This map shows the
0.1% AEP height data


0 5 10 15 20
metres

Sample point data

Defences removed

Label	Easting	Northing	5% AEP		2% AEP		1.33% AEP		1% AEP		0.5% AEP		0.1% AEP	
			Depth	Height	Depth	Height	Depth	Height	Depth	Height	Depth	Height	Depth	Height
1	386552	393286		NoData	NoData	NoData	NoData	NoData		NoData	NoData	NoData	0.11	44.00
2	386559	393286		NoData	NoData	NoData	NoData	NoData		NoData	NoData	NoData	0.04	44.05
3	386566	393286		NoData	NoData	NoData	NoData	NoData		NoData	NoData	NoData	0.07	44.13
4	386545	393293		NoData	NoData	NoData	NoData	NoData		NoData	NoData	NoData	0.12	43.88
5	386552	393293		NoData	NoData	NoData	NoData	NoData		NoData	NoData	NoData	0.09	43.97
6	386559	393293		NoData	NoData	NoData	NoData	NoData		NoData	NoData	NoData	0.08	44.08
7	386566	393293		NoData	NoData	NoData	NoData	NoData		NoData	NoData	NoData	0.14	44.09
8	386545	393300		NoData	NoData	NoData	NoData	NoData		NoData	NoData	NoData	0.01	43.83
9	386552	393300		NoData	NoData	NoData	NoData	NoData		NoData	NoData	NoData	0.01	44
10	386559	393300		NoData	NoData	NoData	NoData	NoData		NoData	NoData	NoData	0.08	44.08
11	386566	393300		NoData	NoData	NoData	NoData	NoData		NoData	NoData	NoData	0.16	44.06
12	386573	393300		NoData	NoData	NoData	NoData	NoData		NoData	NoData	NoData	0.03	44.08
13	386545	393307		NoData	NoData	NoData	NoData	NoData		NoData	NoData	NoData	0.02	43.68
14	386552	393307		NoData	NoData	NoData	NoData	NoData		NoData	NoData	NoData	0.02	43.95
15	386559	393307		NoData	NoData	NoData	NoData	NoData		NoData	NoData	NoData	0.07	44.04
16	386566	393307		NoData	NoData	NoData	NoData	NoData		NoData	NoData	NoData	0.15	44.05

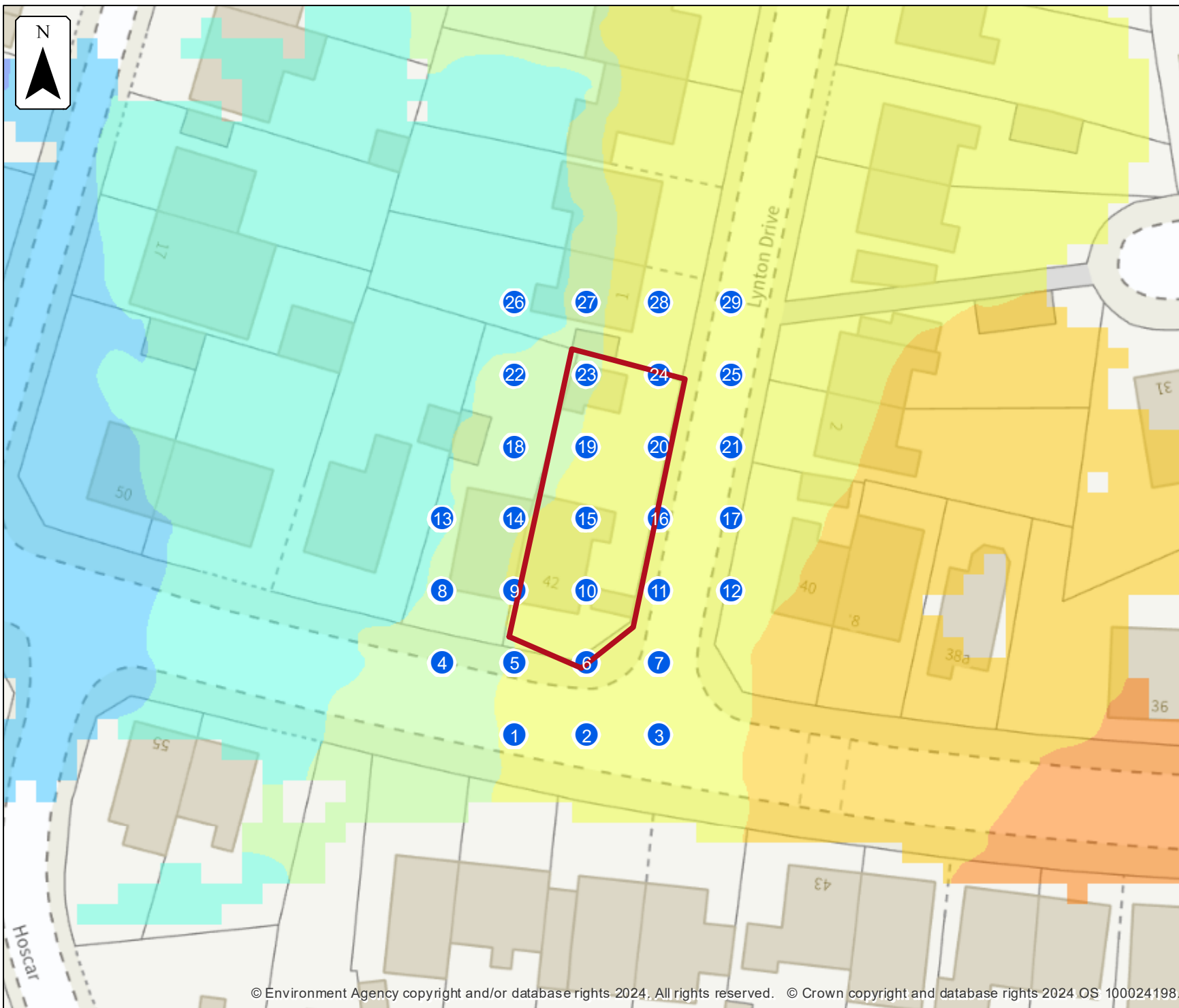
Label	Easting	Northing	5% AEP		2% AEP		1.33% AEP		1% AEP		0.5% AEP		0.1% AEP	
			Depth	Height	Depth	Height	Depth	Height	Depth	Height	Depth	Height	Depth	Height
17	386573	393307		NoData	NoData	NoData	NoData	NoData		NoData	NoData	NoData	0.10	44.06
18	386552	393314		NoData	NoData	NoData	NoData	NoData		NoData	NoData	NoData	0.11	43.84
19	386559	393314		NoData	NoData	NoData	NoData	NoData		NoData	NoData	NoData	0.12	43.99
20	386566	393314		NoData	NoData	NoData	NoData	NoData		NoData	NoData	NoData	0.17	44.04
21	386573	393314		NoData	NoData	NoData	NoData	NoData		NoData	NoData	NoData	0.20	44.05
22	386552	393321		NoData	NoData	NoData	NoData	NoData		NoData	NoData	NoData	0.15	43.78
23	386559	393321		NoData	NoData	NoData	NoData	NoData		NoData	NoData	NoData	0.20	43.93
24	386566	393321		NoData	NoData	NoData	NoData	NoData		NoData	NoData	NoData	0.21	44.04
25	386573	393321		NoData	NoData	NoData	NoData	NoData		NoData	NoData	NoData	0.19	44.05
26	386552	393328		NoData	NoData	NoData	NoData	NoData		NoData	NoData	NoData	0.41	43.61
27	386559	393328		NoData	NoData	NoData	NoData	NoData		NoData	NoData	NoData	0.24	43.86
28	386566	393328		NoData	NoData	NoData	NoData	NoData		NoData	NoData	NoData	0.37	44.05
29	386573	393328		NoData	NoData	NoData	NoData	NoData		NoData	NoData	NoData	0.22	44.05

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.



**Defended
climate change
modelled fluvial
extent and height**

Location (easting/northing)
386560/393308

Scale Created
1:500 5 Jun 2024

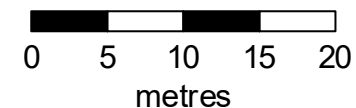
Model name
**Cringle Black Brook
2017**

-  Selected area
-  Main river

Modelled 2D grid
Water level in mAOD

-  0 - 43.0
-  43.0 - 43.25
-  43.25 - 43.5
-  43.5 - 43.75
-  43.75 - 44.0
-  44.0 - 44.25
-  44.25 - 44.5
-  44.5 - 44.75
-  44.75 - 45.0

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



Sample point data

Defended climate change

Label	Easting	Northing	1% AEP (+70%)		0.1% AEP (+30%)	
			Depth	Height	Depth	Height
1	386552	393286	0.04		0.14	44.03
2	386559	393286	0.00		0.08	44.08
3	386566	393286	0.01		0.10	44.15
4	386545	393293	0.06		0.15	43.90
5	386552	393293	0.03		0.12	44.01
6	386559	393293	0.01		0.11	44.12
7	386566	393293	0.08		0.17	44.13
8	386545	393300	NoData		0.01	43.84
9	386552	393300	0.00		0.04	44.02
10	386559	393300	0.01		0.11	44.11
11	386566	393300	0.09		0.20	44.10
12	386573	393300	NoData		0.06	44.11
13	386545	393307	NoData		0.04	43.71
14	386552	393307	NoData		0.03	43.97
15	386559	393307	0.00		0.11	44.08
16	386566	393307	0.06		0.19	44.10

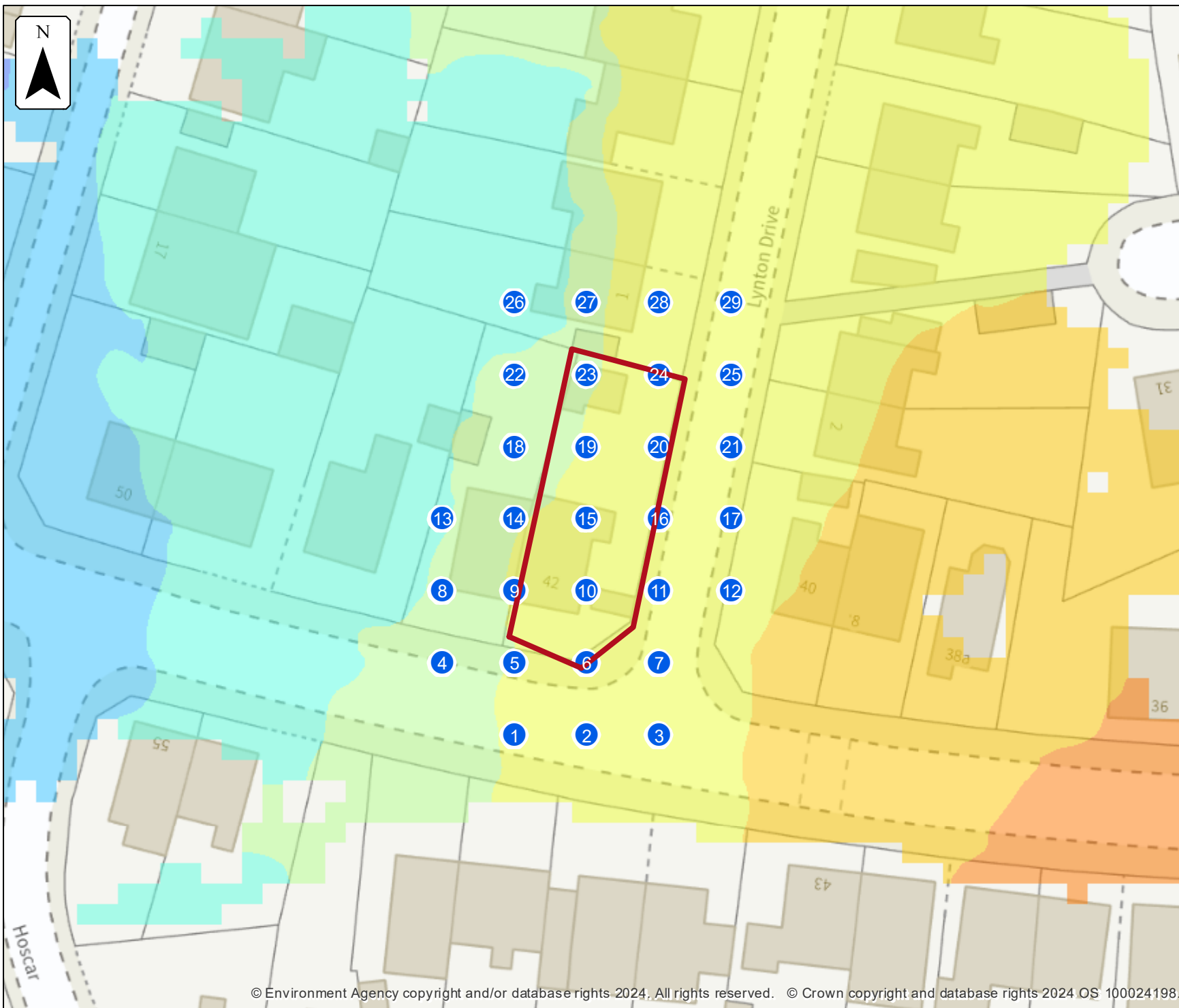
Label	Easting	Northing	1% AEP (+70%)		0.1% AEP (+30%)	
			Depth	Height	Depth	Height
17	386573	393307	0.02		0.14	44.10
18	386552	393314	NoData		0.15	43.88
19	386559	393314	0.01		0.15	44.03
20	386566	393314	0.05		0.22	44.09
21	386573	393314	0.08		0.24	44.10
22	386552	393321	0.05		0.18	43.81
23	386559	393321	0.09		0.24	43.96
24	386566	393321	0.05		0.26	44.09
25	386573	393321	0.06		0.23	44.10
26	386552	393328	0.24		0.46	43.67
27	386559	393328	0.13		0.28	43.89
28	386566	393328	0.20		0.41	44.10
29	386573	393328	0.06		0.27	44.10

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.



Defences removed climate change modelled fluvial extent and height

Location (easting/northing)
386560/393308

Scale Created
1:500 5 Jun 2024

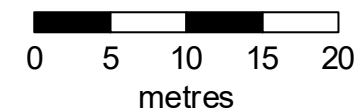
Model name
**Cringle Black Brook
2017**

- Selected area
- Main river

Modelled 2D grid
Water level in mAOD

- 0 - 43.0
- 43.0 - 43.25
- 43.25 - 43.5
- 43.5 - 43.75
- 43.75 - 44.0
- 44.0 - 44.25
- 44.25 - 44.5
- 44.5 - 44.75
- 44.75 - 45.0

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%)	
			Depth	Height	Depth	Height	Depth	Height	Depth	Height
1	386552	393286	NoData	NoData	0.02	43.91		43.93		44.03
2	386559	393286	NoData	NoData	0.00	44		44.00		44.08
3	386566	393286	NoData	NoData	0.00	44.05		44.06		44.15
4	386545	393293	0.01	43.77	0.02	43.78		43.82		43.90
5	386552	393293	NoData	NoData	NoData	NoData		43.91		44.01
6	386559	393293	NoData	NoData	NoData	NoData		44.02		44.12
7	386566	393293	0.02	43.98	0.03	43.98		44.03		44.13
8	386545	393300	NoData	NoData	NoData	NoData		NoData		43.84
9	386552	393300	NoData	NoData	NoData	NoData		43.98		44.02
10	386559	393300	NoData	NoData	NoData	NoData		44.01		44.11
11	386566	393300	0.04	43.94	0.05	43.95		43.99		44.10
12	386573	393300	NoData	NoData	NoData	NoData		NoData		44.11
13	386545	393307	NoData	NoData	NoData	NoData		NoData		43.71
14	386552	393307	NoData	NoData	NoData	NoData		NoData		43.97
15	386559	393307	NoData	NoData	NoData	NoData		43.97		44.08
16	386566	393307	0.02	43.92	0.02	43.92		43.96		44.10

Label	Easting	Northing	1% AEP (+30%)		1% AEP (+35%)		1% AEP (+70%)		0.1% AEP (+30%)	
			Depth	Height	Depth	Height	Depth	Height	Depth	Height
17	386573	393307	NoData	NoData	0.00	43.92		43.96		44.10
18	386552	393314	NoData	NoData	NoData	NoData		NoData		43.88
19	386559	393314	NoData	NoData	NoData	NoData		43.88		44.03
20	386566	393314	0.00	43.88	0.01	43.88		43.92		44.09
21	386573	393314	0.03	43.88	0.03	43.89		43.94		44.10
22	386552	393321	NoData	NoData	NoData	NoData		43.67		43.81
23	386559	393321	0.01	43.73	0.01	43.74		43.81		43.96
24	386566	393321	NoData	NoData	0.01	43.84		43.88		44.09
25	386573	393321	0.01	43.87	0.02	43.88		43.92		44.10
26	386552	393328	0.17	43.37	0.18	43.38		43.44		43.67
27	386559	393328	0.06	43.67	0.07	43.69		43.75		43.89
28	386566	393328	0.10	43.79	0.12	43.81		43.88		44.10
29	386573	393328	0.00	43.83	0.00	43.83		43.88		44.10

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.

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

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