

Flood risk assessment data



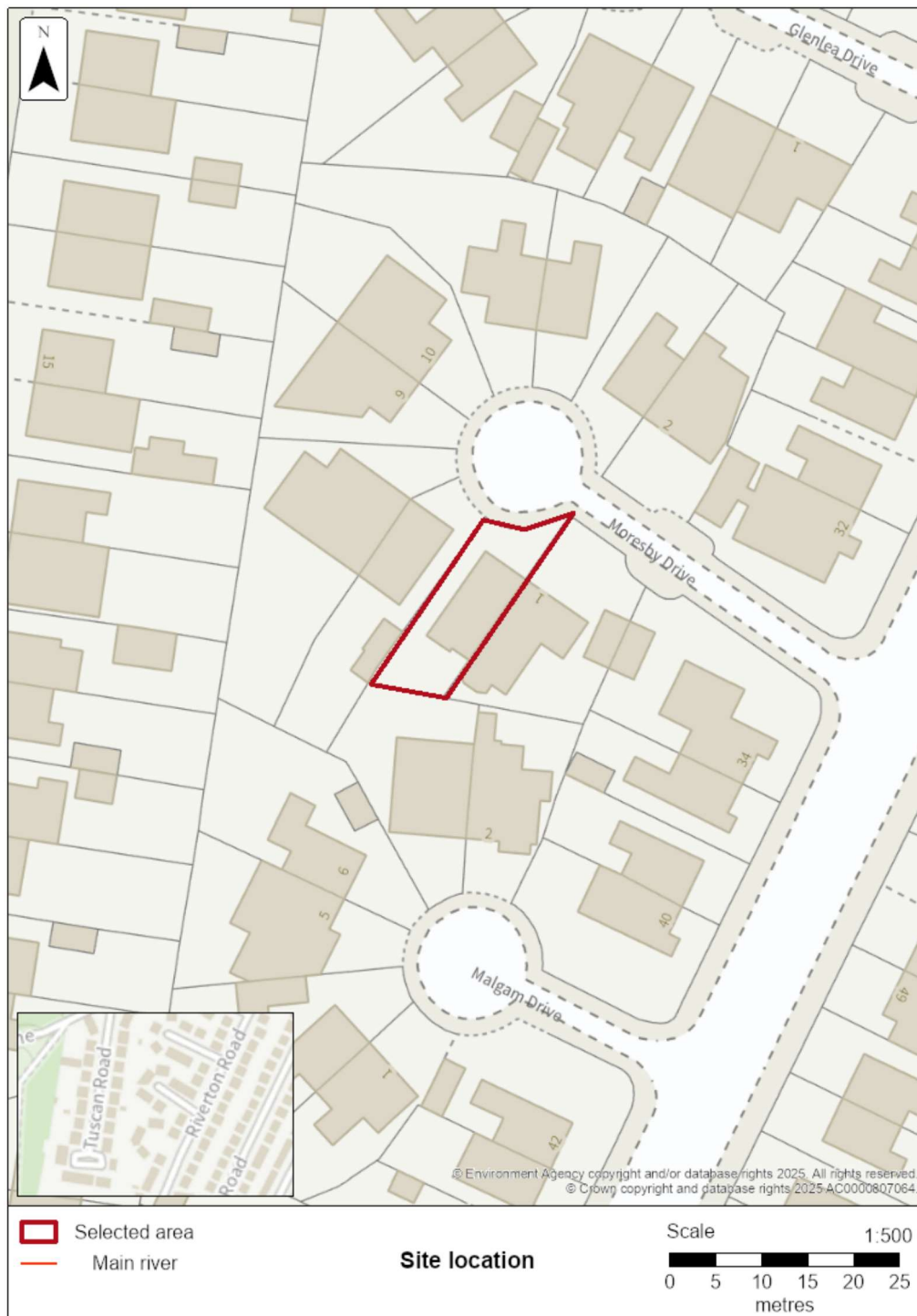
Location of site: 384601 / 389583 (shown as easting and northing coordinates)

Document created on: 29 April 2025

This information was previously known as a product 4.

Customer reference number: U1958W8RJ1UE

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: Upper Mersey 2017

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

Date: 14 April 2022

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



Flood map for planning

Location (easting/northing)

384601/389583

Scale

1:10,000

Created

29 Apr 2025



Selected area



Main river



Flood defence



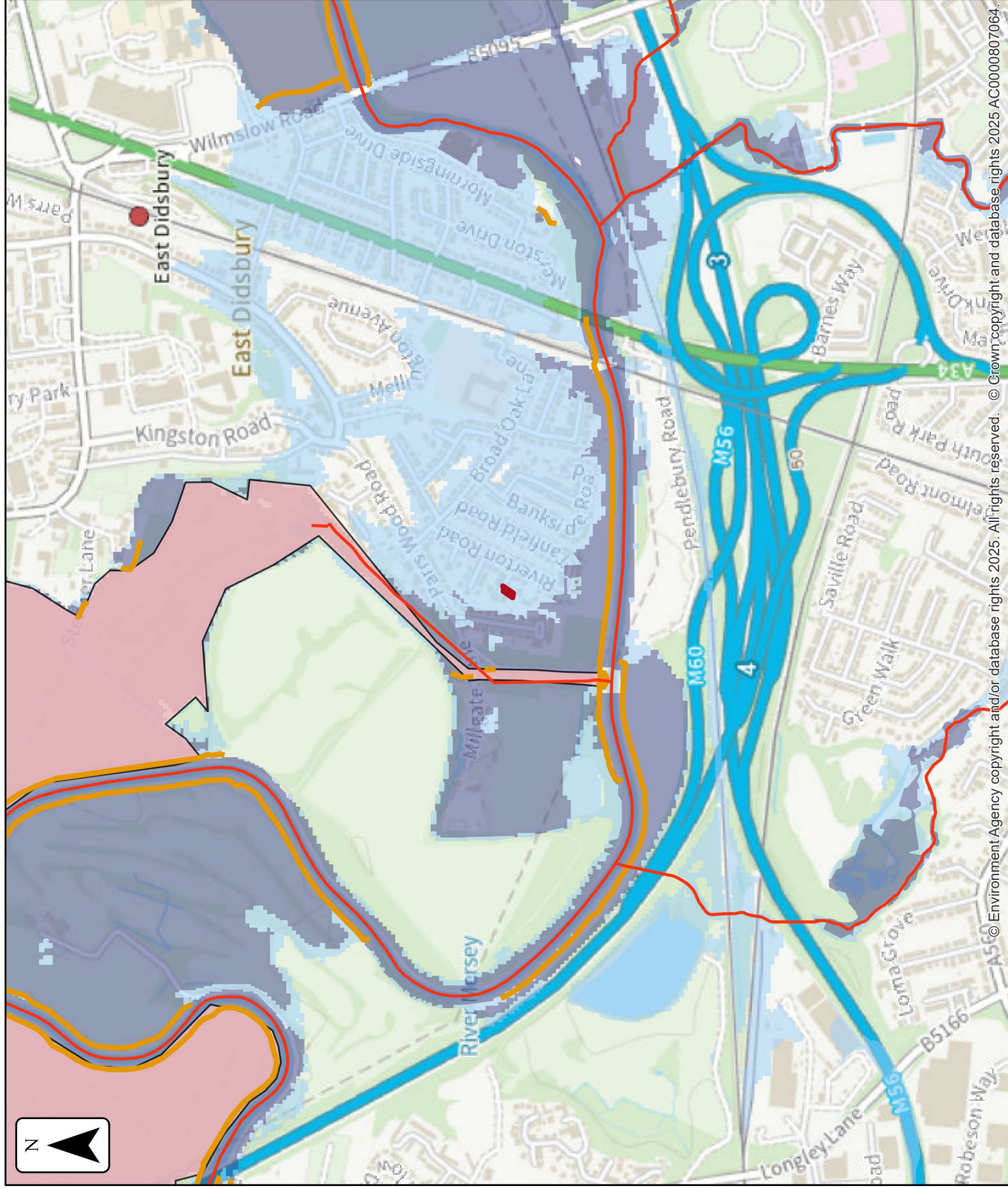
Water storage area

Flood Zones 2 and 3 Rivers and Sea



Flood Zone 3

Flood Zone 2



Past floods

Past flood events included in this document

The recorded flood outlines included in this document are for areas of land local to your site location that have been flooded by any of these sources:

- ephemeral water
- main rivers
- ordinary watercourses
- the sea
- unknown

Data limitations

The outlines do not include flooding from:

- drainage where rainfall has led to surface water ponding or overland runoff
- artificial, water-bearing sewer, water supply and wastewater treatment pipelines

Changes to flood defences

The defences (also known as assets) that were in place may also have changed. For example, assets may have been built more recently than the last recorded flood outline.

What the recorded flood outlines dataset is

The recorded flood outlines are a geographical information system (GIS) data layer that show our verified records of areas that have flooded in the past from:

- rivers
- the sea
- groundwater
- surface water

[Download the complete recorded flood outlines dataset](#), which includes data quality flags for outlines recorded after April 2020. This indicates the confidence we have in an outline.

Get flood information from other organisations

Contact Manchester District Lead Local Flood Authority (LLFA) and your drainage board to get information about past flooding caused by surface water or drainage systems.



Past floods
Location (easting/northing)
384601/389583
Scale
1:10,000
Created
29 Apr 2025

Selected area



Main river



Date of flood event

January, 2021

July, 2019

March, 2019

January, 2008

February, 2002

February, 2002

November, 2000









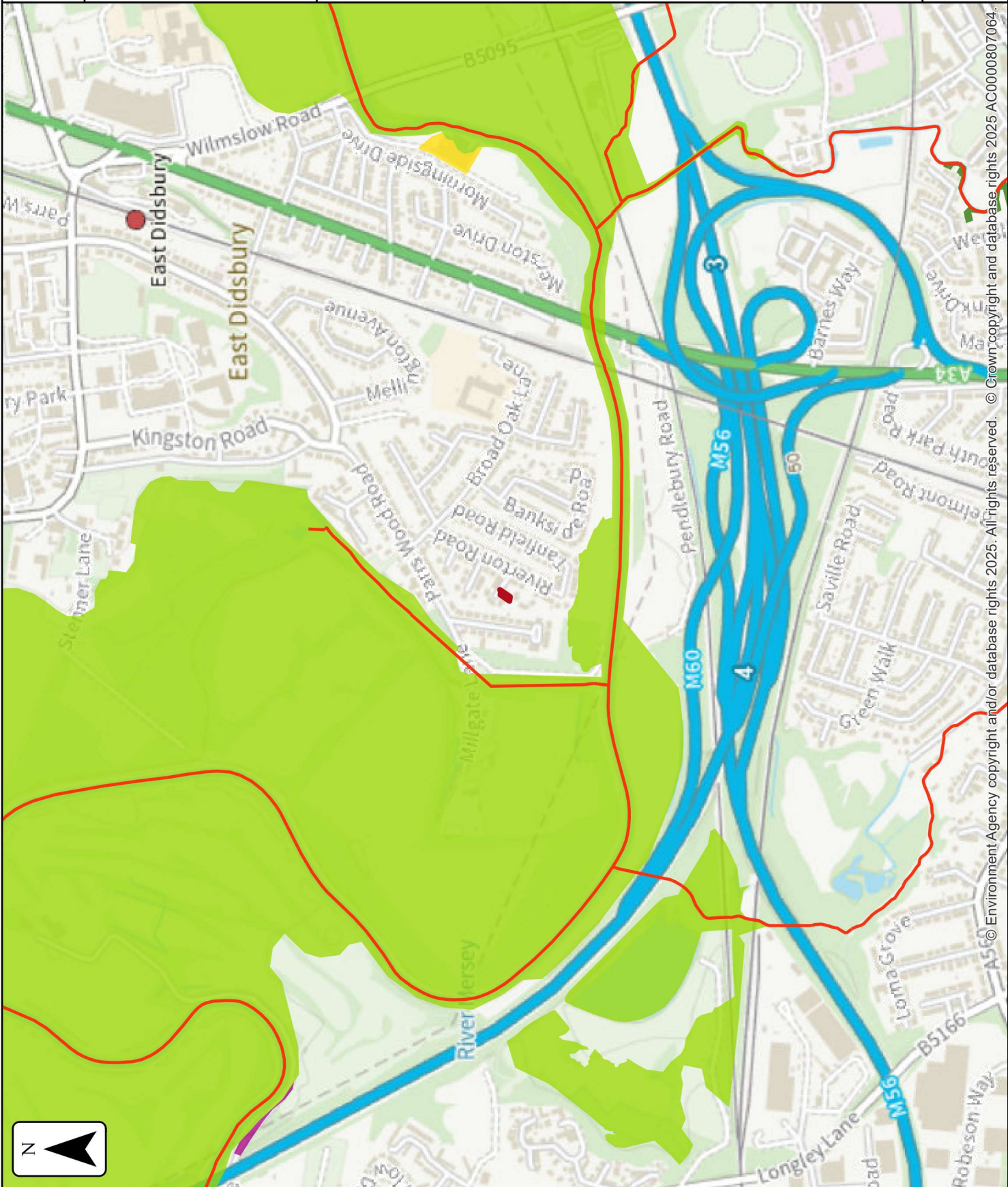






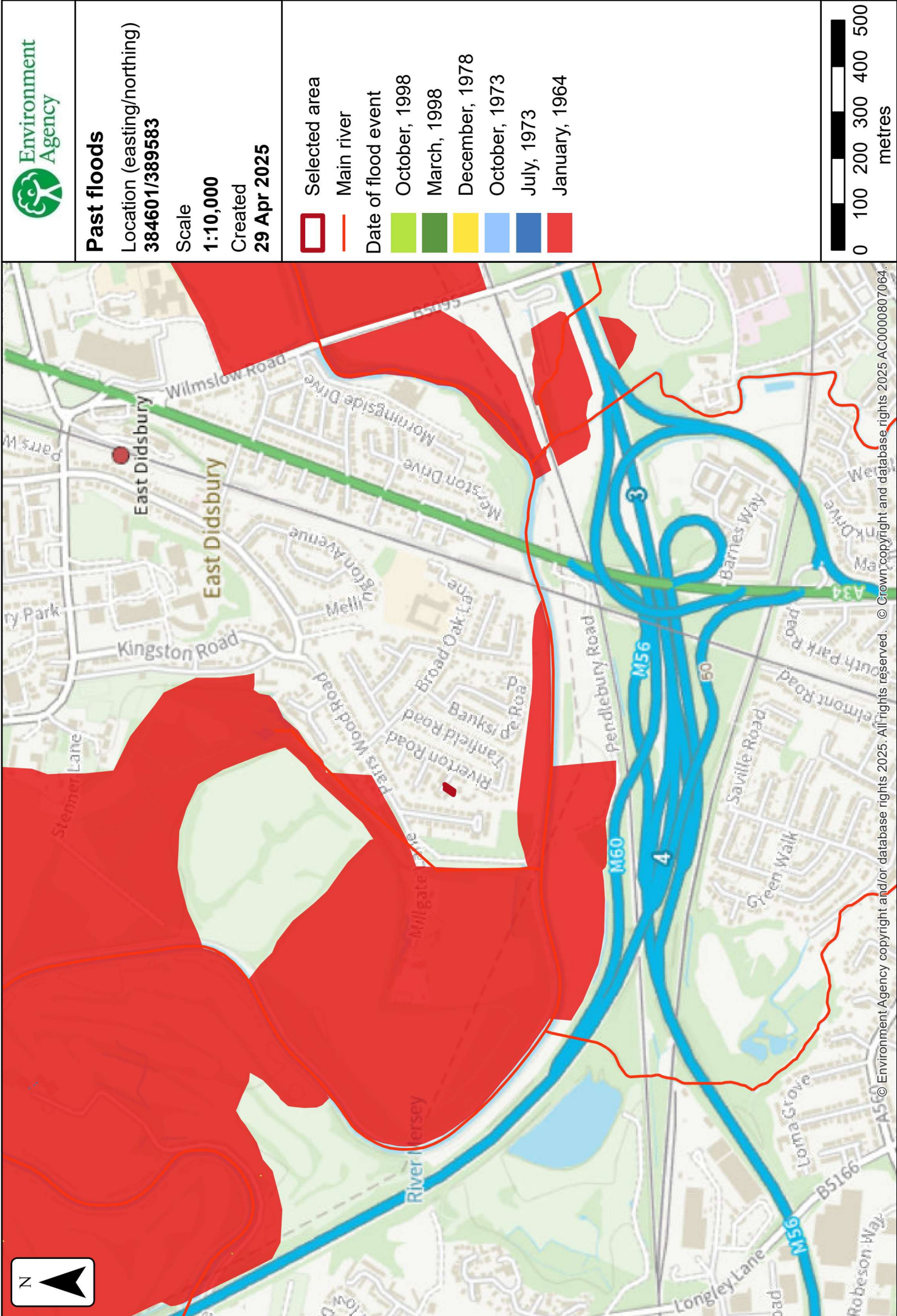


0 100 200 300 400 500 metres



The map displays the East Didsbury area, including roads like Wilmslow Road, Kingston Road, and the River Mersey. Flood areas are highlighted in green, and the main river is shown in blue. A red outline indicates the selected area. A north arrow is located in the bottom left corner.

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Data on past flood events

Start date	End date	Source of flood	Cause of flood	Affects location
20 January 2021	20 January 2021	main river	other	No
28 July 2019	31 July 2019	main river	channel capacity exceeded (no raised defences)	No
16 March 2019	16 March 2019	main river	channel capacity exceeded (no raised defences)	No
21 January 2008	22 January 2008	main river	unknown	No
10 February 2002	11 February 2002	unknown	other	No
8 February 2002	9 February 2002	unknown	channel capacity exceeded (no raised defences)	No
16 November 2000	17 November 2000	unknown	channel capacity exceeded (no raised defences)	No
23 October 1998	24 October 1998	unknown	channel capacity exceeded (no raised defences)	No
3 March 1998	4 March 1998	unknown	obstruction/blockage - channel	No
27 December 1978	28 December 1978	unknown	channel capacity exceeded (no raised defences)	No
5 October 1973	6 October 1973	unknown	operational failure/breach of defence	No
16 July 1973	17 July 1973	unknown	channel capacity exceeded (no raised defences)	No
1 January 1964	2 January 1964	unknown	unknown	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



Flood defences
Location (easting/northing)
384601/389583
Scale
1:2,500
Created
29 Apr 2025

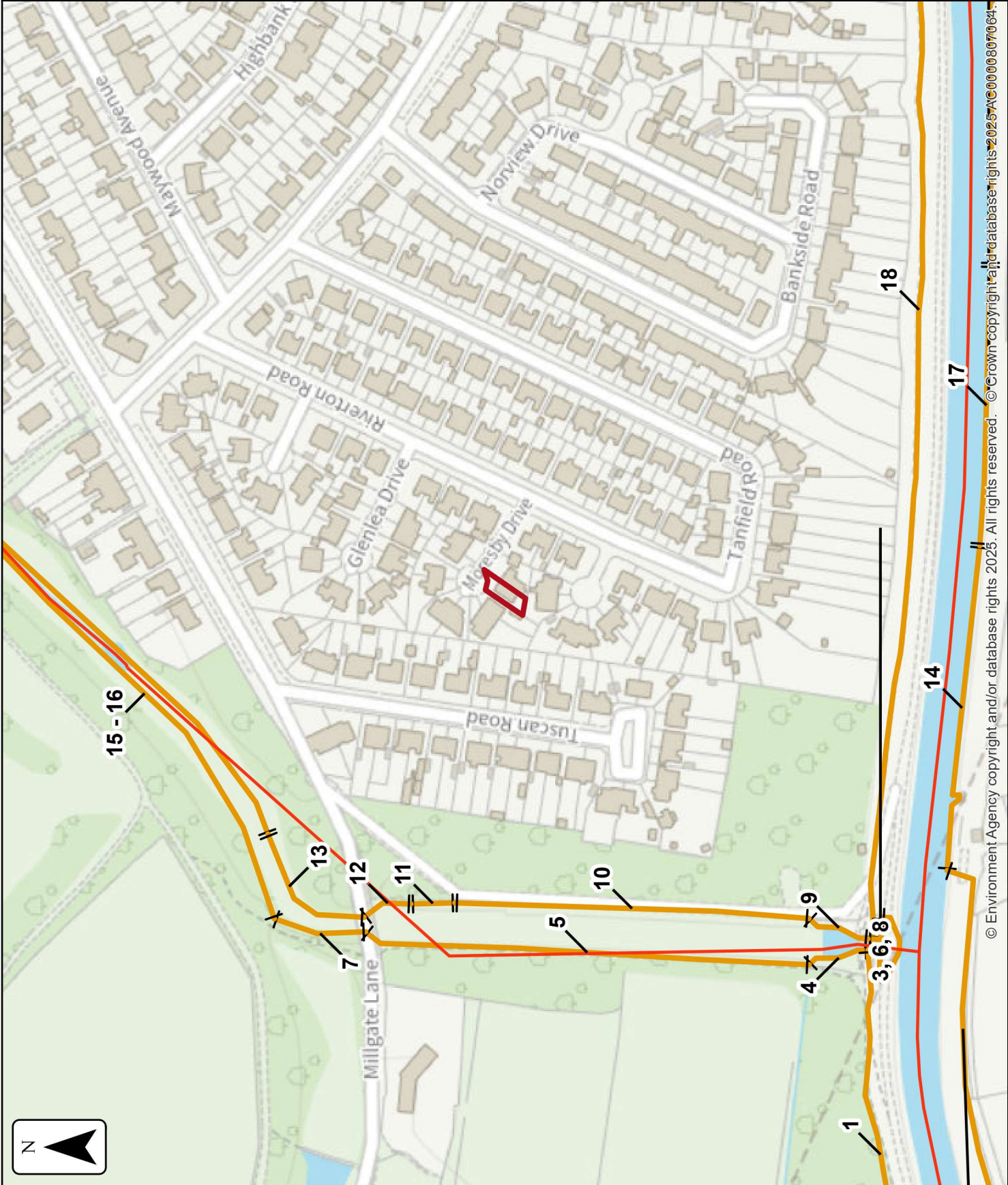
 Selected area

 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	58974	Embankment	100		32.82	32.85	
2	122153	Embankment	100	Fair	32.29	32.84	
3	144885	Embankment	75		33.17	33.17	
4	144886	Engineered High Ground	75		33.17	31.30	
5	144887	Engineered High Ground	75		30.67	31.30	
6	146508	Spillway	100		32.81	32.81	
7	144888	Embankment	75		32.70	30.67	
8	146503	Embankment	75		33.17	33.17	
9	146504	Engineered High Ground	75		33.17	31.25	
10	183314	Engineered High Ground	75		30.63	31.25	

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

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)
11	173224	Embankment	75		30.92	30.73	
12	173225	Engineered High Ground	75		30.52	30.34	
13	71380	Engineered High Ground	75		29.63	30.52	
14	121960	Engineered High Ground	100	Very poor	29.63	29.76	
15	144889	Engineered High Ground	75		30.33	32.70	
16	146505	Engineered High Ground	75		29.22	29.63	
17	412608	Engineered High Ground	100	Very poor			
18	122331	Embankment	50	Fair	32.93	34.03	
19	412609	Engineered High Ground	100	Very poor			

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
- No defences exist modelled fluvial: risk of flooding from rivers where there are no flood defences
- 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
- No defences exist climate change modelled fluvial: risk of flooding from rivers where there are no flood defences, including estimated impact of climate change



**Defences removed
climate change
modelled fluvial extent**

Location (easting/northing)
384601/389583

Scale
1:10,000

Created
29 Apr 2025

Model name
Upper Mersey 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

0

100

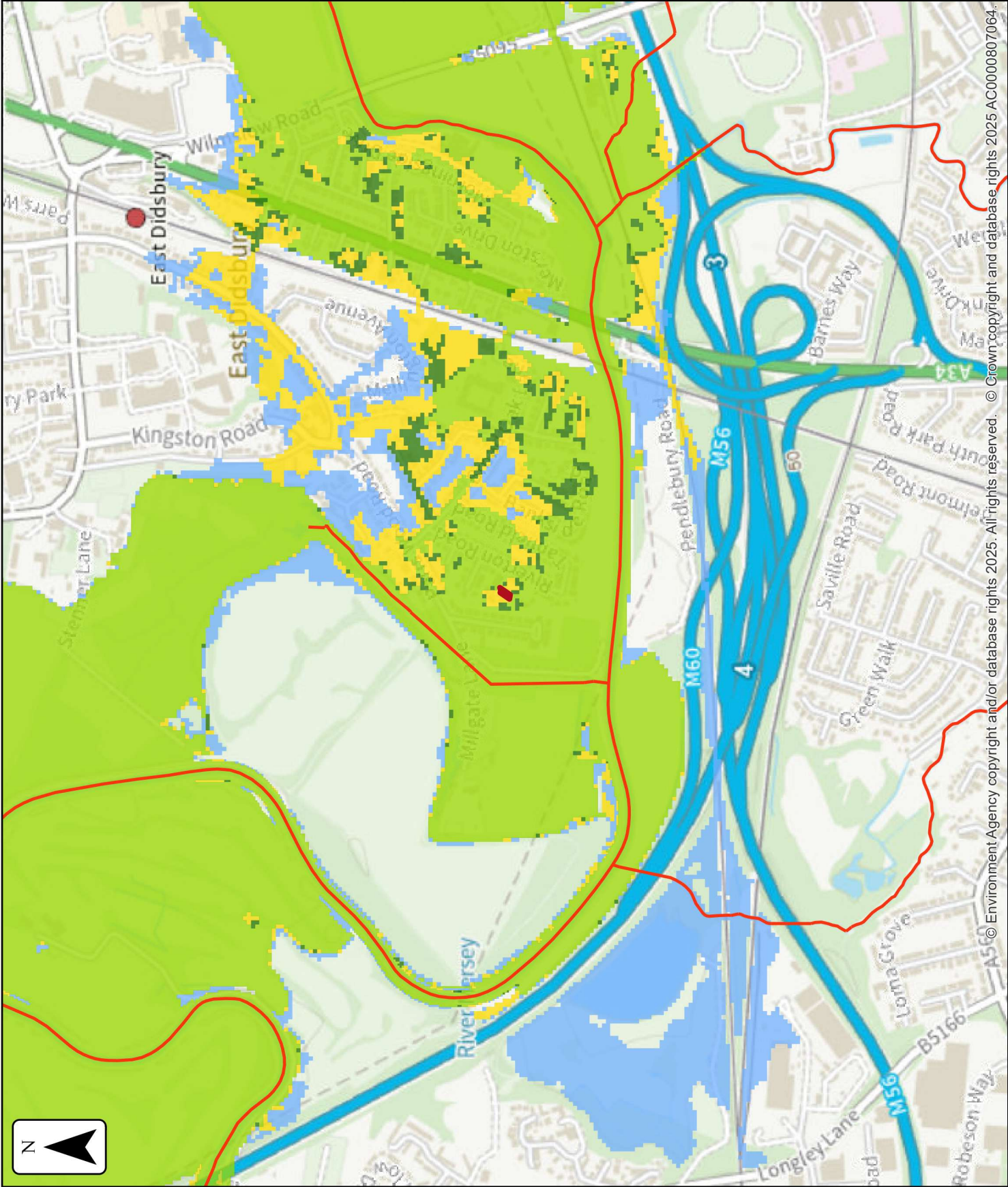
200

300

400

500

metres





**Defences removed
modelled fluvial extent**

Location (easting/northing)
384601/389583

Scale
1:10,000

Created
29 Apr 2025

Model name
Upper Mersey 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

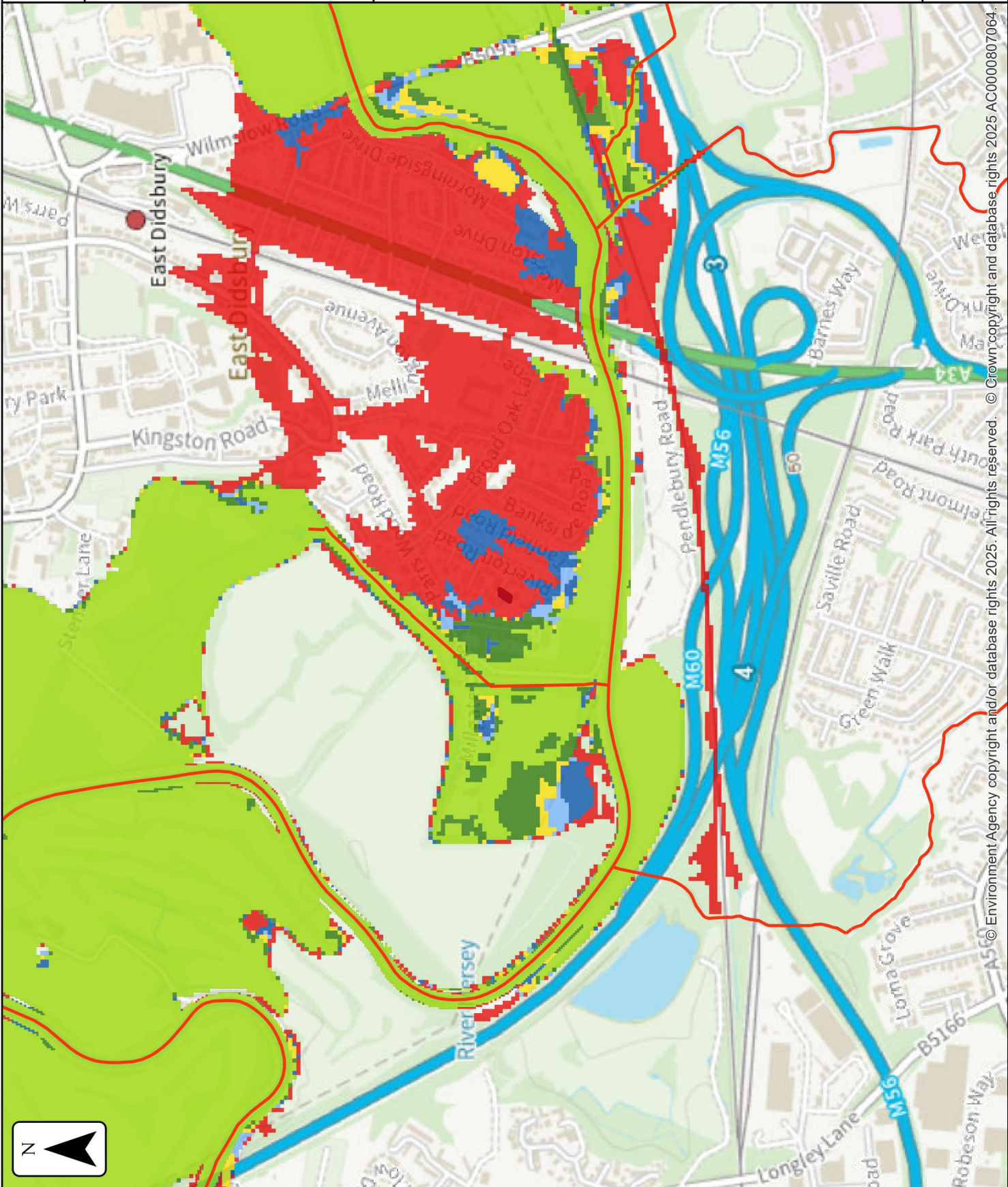
200

300

400

500

metres





Defended
climate change
modelled fluvial extent

Location (easting/northing)
384601/389583

Scale
1:10,000

Created
29 Apr 2025

Model name
Upper Mersey 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

0

100

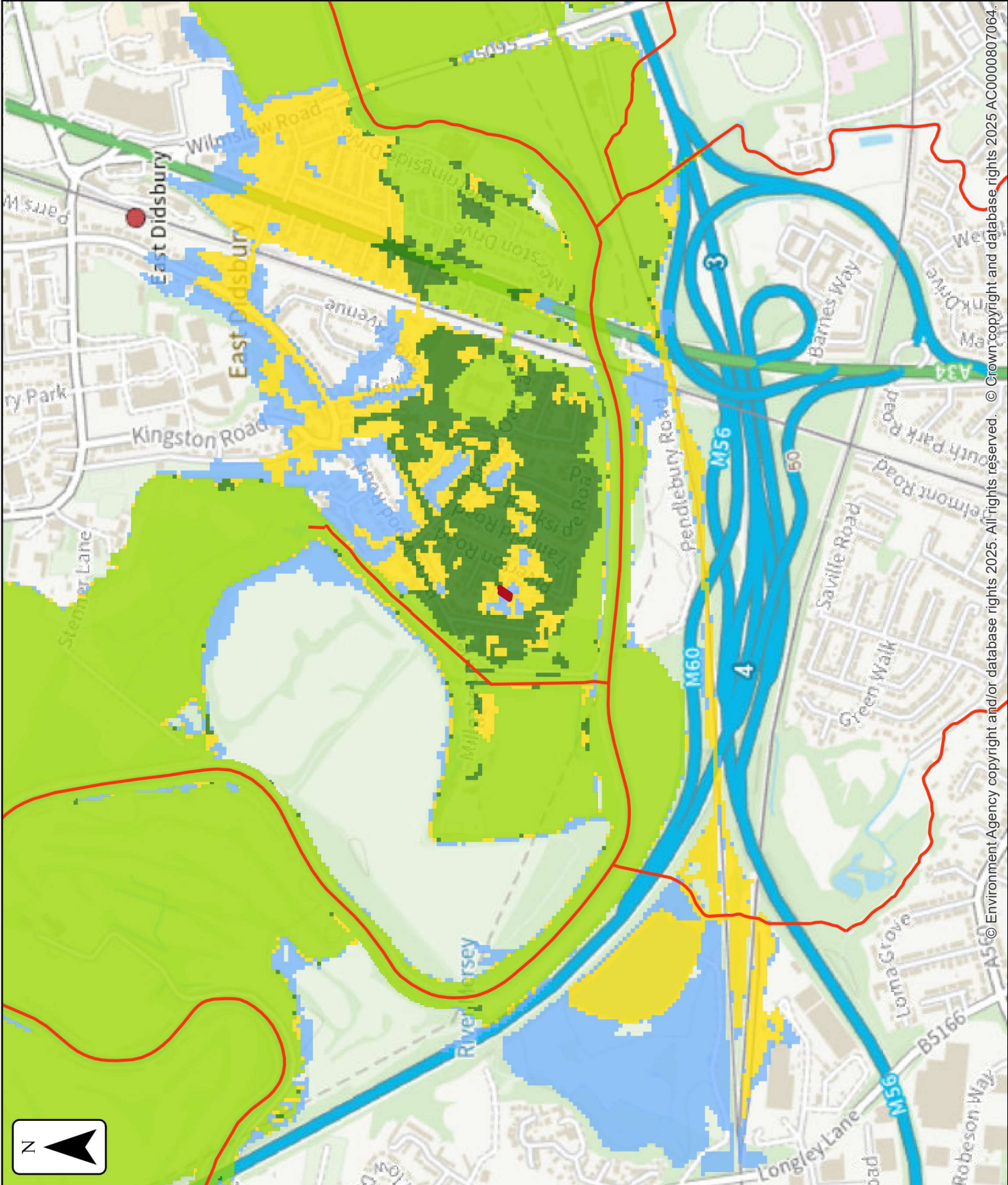
200

300

400

500

metres





**Defended modelled
fluvial extent**

Location (easting/northing)
384601/389583

Scale
1:10,000

Created
29 Apr 2025

Model name
Upper Mersey 2017

Selected area

Main river

Modelled flood extent

5% AEP

2% AEP

1.33% AEP

1% AEP

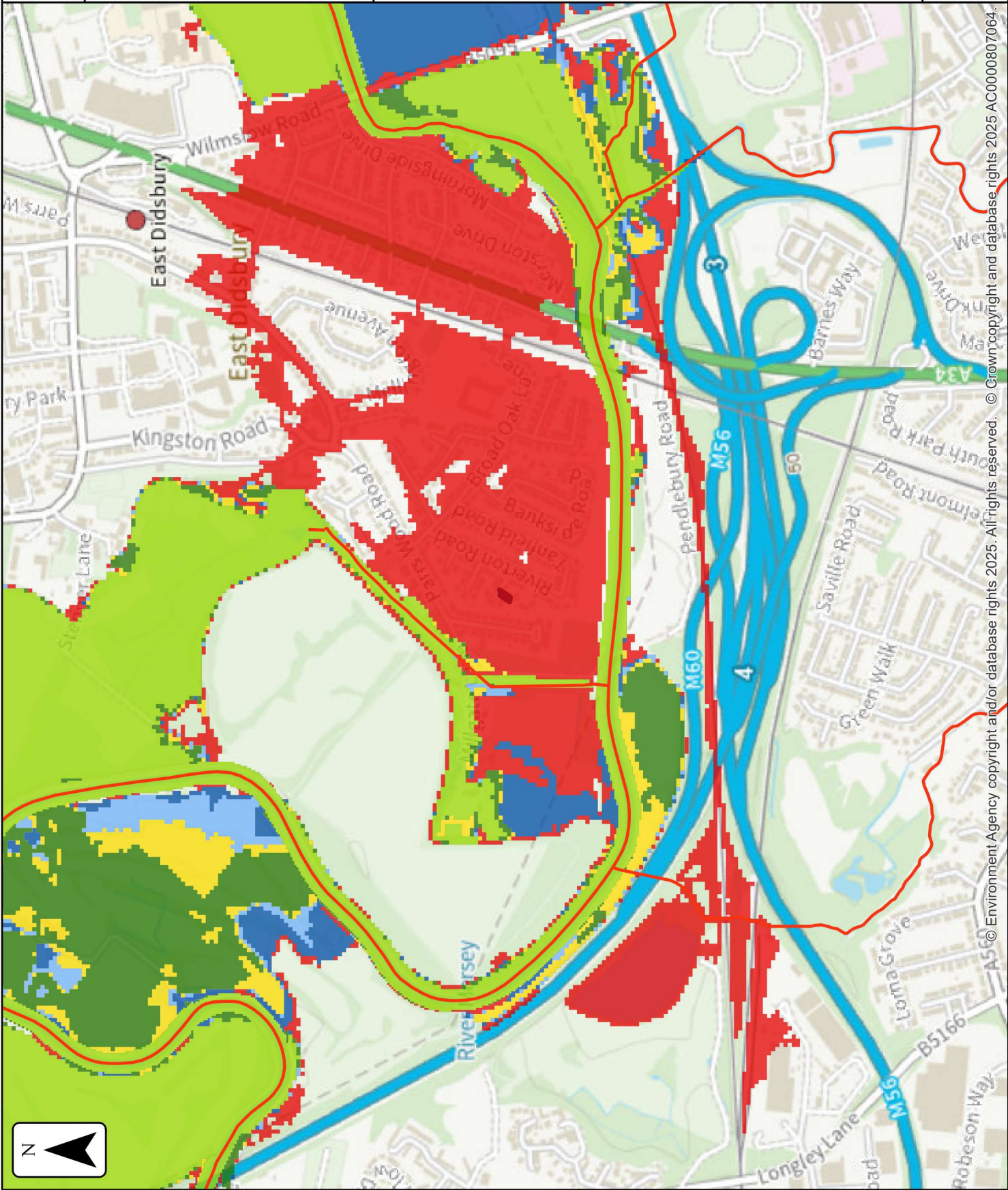
0.5% AEP

0.1% AEP

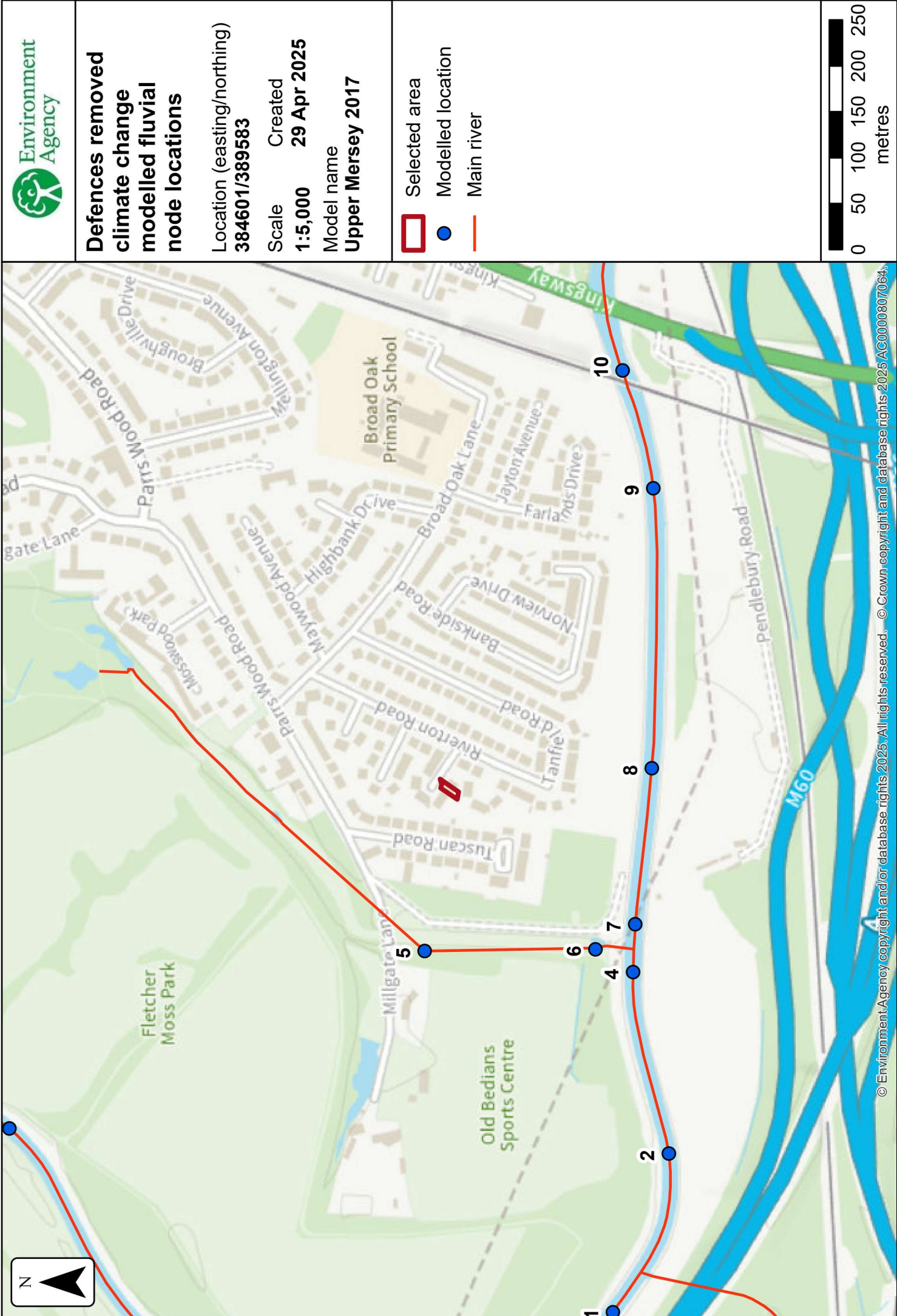
Flood extents may not be visible where they overlap other return periods

0100200300400500

metres



This map displays the defended modelled fluvial extent for the Upper Mersey area. The River Mersey is shown as a prominent blue feature flowing through the landscape. The map is overlaid with various colored regions representing different levels of Annual Exceedance Probability (AEP) for flooding: 5% AEP (light green), 2% AEP (dark green), 1.33% AEP (yellow), 1% AEP (light blue), 0.5% AEP (dark blue), and 0.1% AEP (red). A red outline indicates the selected area, and a red line marks the main river. The map includes labels for various roads such as Kingston Road, Wilmslow Road, and M56, as well as locations like East Didsbury and Loma Grove. A north arrow is located in the bottom left corner, and a scale bar in the bottom right corner indicates distances from 0 to 500 metres. A copyright notice at the bottom right states: © Environment Agency copyright and/or database rights 2025. All rights reserved. © Crown copyright and database rights 2025 AC0000807064.



Modelled node locations data

Defences removed climate change

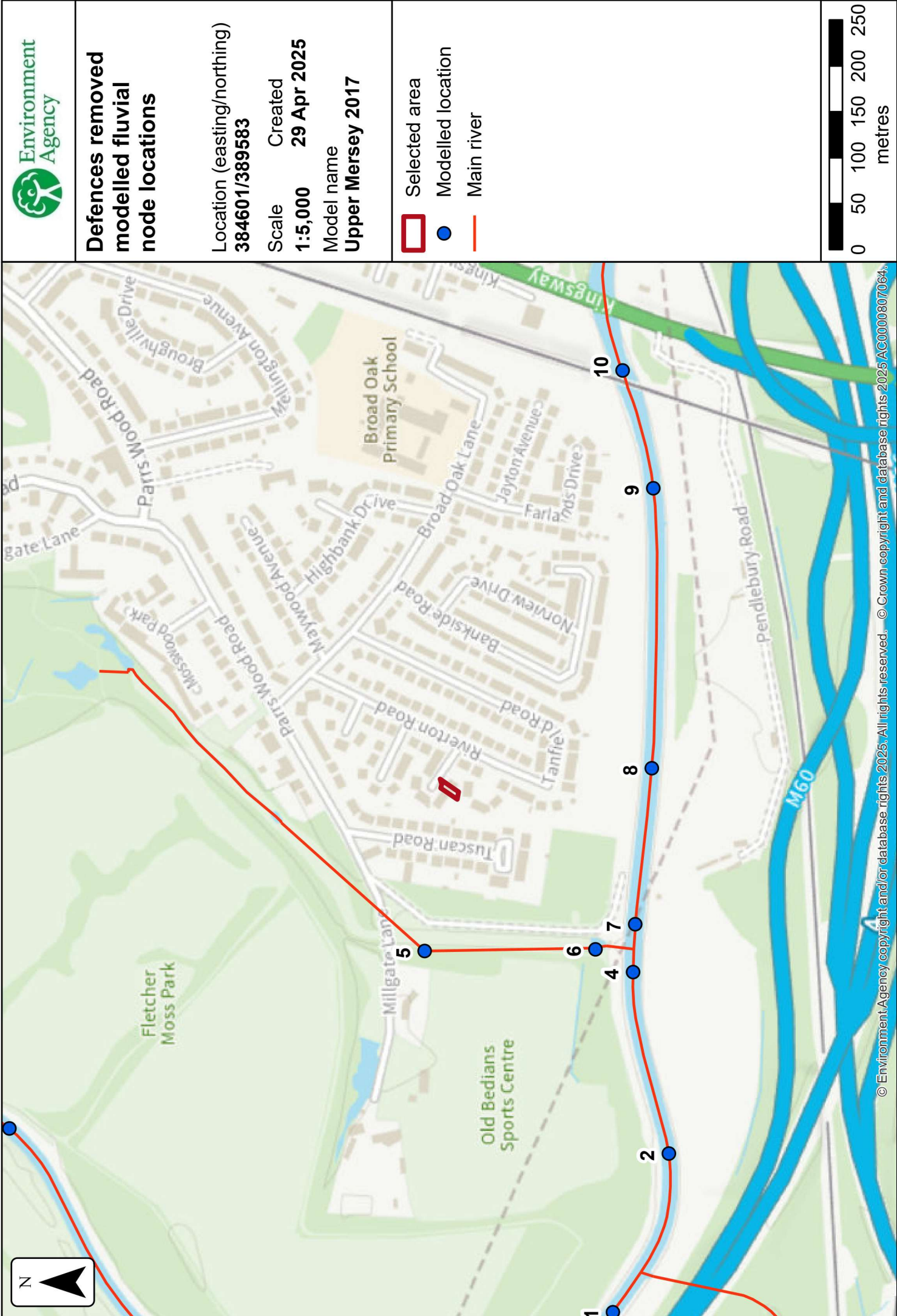
Label	Modelled location ID	Easting	Northing	1% AEP (+30%)		1% AEP (+35%)		1% AEP (+70%)		0.1% AEP (+30%)	
				Level	Level	Level	Level	Level	Level	Level	Level
1	1290570	384032	389405	32.03	32.07	32.10	32.46	33.10			
2	1290517	384205	389344	32.28	32.35	33.27	32.67	33.27			
3	1290541	384232	390062	29.95	29.98	30.15	30.15	30.69			
4	1290767	384402	389383	32.33	32.39	33.28	32.70	33.28			
5	1290645	384425	389610	28.72	28.82	29.89	29.32	29.89			
6	1290586	384427	389424	28.72	28.82	29.90	29.32	29.90			
7	1290662	384454	389381	32.33	32.39	33.28	32.70	33.28			
8	1290572	384624	389363	32.33	32.39	33.30	32.71	33.30			
9	1290830	384929	389361	32.67	32.73	33.52	33.02	33.52			
10	1290733	385057	389394	33.38	33.46	34.50	33.85	34.50			

Data in this table comes from the Upper Mersey 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	1290570	384032	389405	341.59		357.01		402.05		495.84	
2	1290517	384205	389344	330.47		340.71		401.09		506.50	
3	1290541	384232	390062	260.48		268.01		312.02		444.24	
4	1290767	384402	389383	387.75		400.88		469.65		586.05	
5	1290645	384425	389610	9.38		9.54		10.39		12.41	
6	1290586	384427	389424	0.50		0.50		0.50		0.50	
7	1290662	384454	389381	387.75		400.88		469.65		586.05	
8	1290572	384624	389363	443.71		456.89		525.88		644.09	
9	1290830	384929	389361	494.96		510.96		589.49		729.39	
10	1290733	385057	389394	504.58		521.49		602.82		753.99	

Data in this table comes from the Upper Mersey 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.



Modelled node locations data

Defences removed

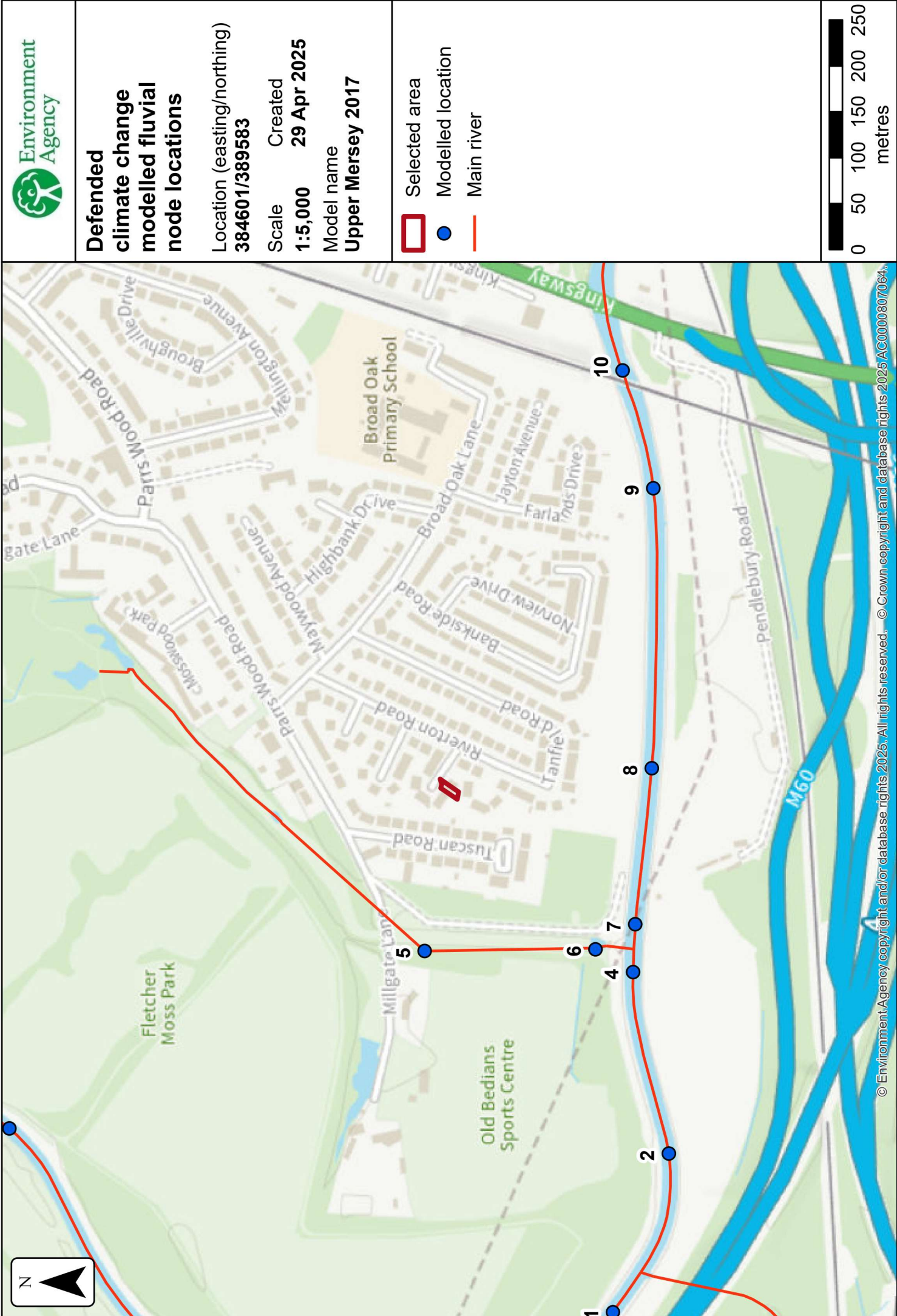
Label	Modelled location ID	Easting	Northing	1% AEP	0.5% AEP	0.1% AEP
				Level	Level	Level
1	1290570	384032	389405	31.65	31.80	32.53
2	1290517	384205	389344	31.94	32.08	32.74
3	1290541	384232	390062	29.73	29.83	30.19
4	1290767	384402	389383	32.05	32.16	32.76
5	1290645	384425	389610	27.92	28.23	29.40
6	1290586	384427	389424	27.93	28.23	29.40
7	1290662	384454	389381	32.05	32.16	32.76
8	1290572	384624	389363	32.06	32.16	32.78
9	1290830	384929	389361	32.37	32.50	33.08
10	1290733	385057	389394	32.85	33.06	33.93

Data in this table comes from the Upper Mersey 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

Label	Modelled location ID	Easting	Northing	1% AEP		0.5% AEP		0.1% AEP	
				Flow		Flow		Flow	
1	1290570	384032	389405	293.33		312.64		412.60	
2	1290517	384205	389344	270.52		294.02		414.02	
3	1290541	384232	390062	219.20		234.83		322.43	
4	1290767	384402	389383	305.86		338.62		483.94	
5	1290645	384425	389610	7.84		8.56		10.76	
6	1290586	384427	389424	0.50		0.50		0.50	
7	1290662	384454	389381	305.86		338.62		483.94	
8	1290572	384624	389363	349.86		389.98		540.08	
9	1290830	384929	389361	385.86		431.33		605.67	
10	1290733	385057	389394	389.64		436.68		618.73	

Data in this table comes from the Upper Mersey 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.



Modelled node locations data

Defended climate change

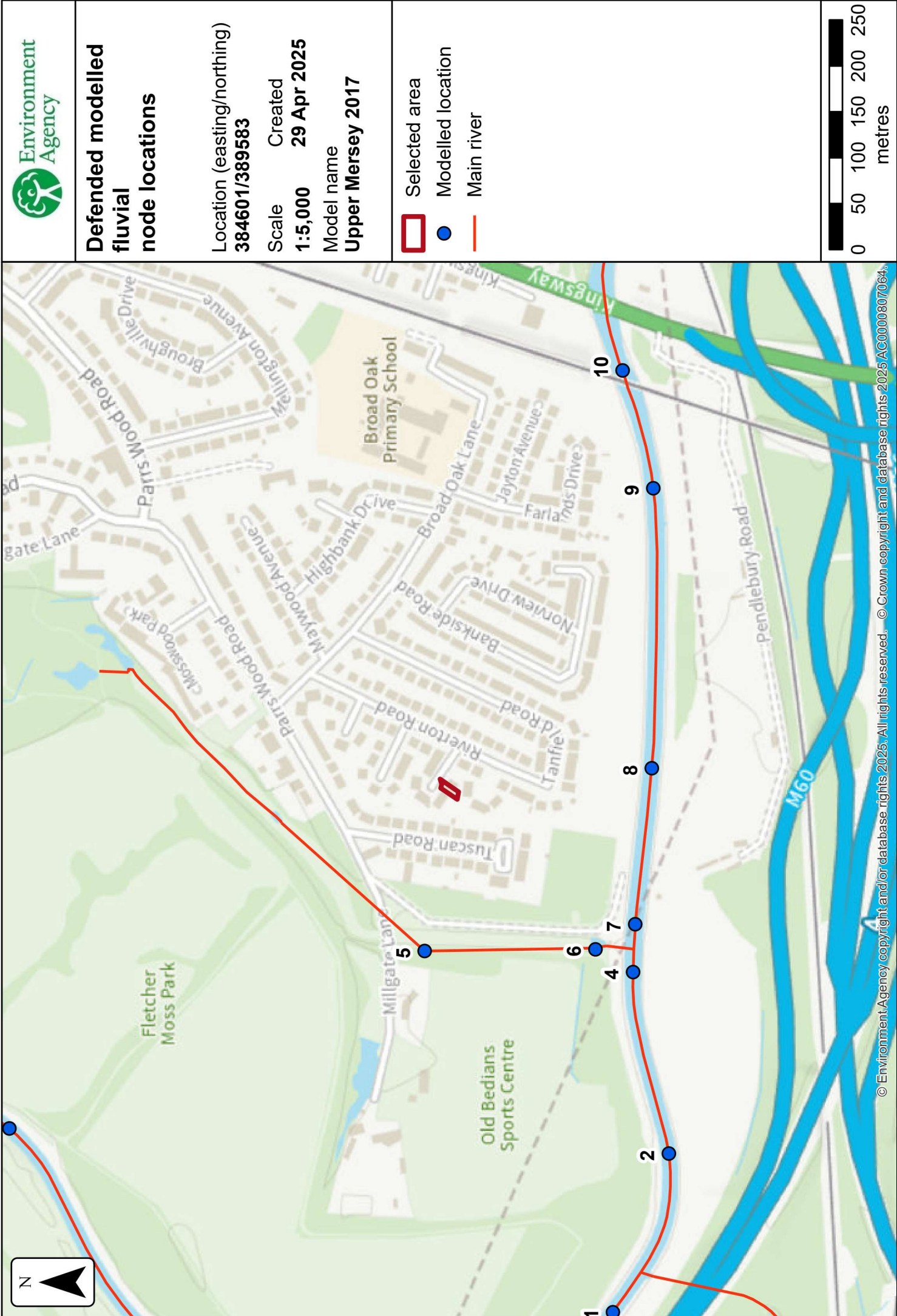
Label	Modelled location ID	Easting	Northing	1% AEP (+30%)		1% AEP (+35%)		1% AEP (+70%)		0.1% AEP (+30%)	
				Level		Level		Level		Level	
1	1290570	384032	389405	32.95		33.0		33.23		33.55	
2	1290517	384205	389344	33.16		33.20		33.39		33.62	
3	1290541	384232	390062	31.47		31.48		31.53		31.67	
4	1290767	384402	389383	33.19		33.23		33.40		33.61	
5	1290645	384425	389610	29.70		29.74		29.89		30.21	
6	1290586	384427	389424	29.71		29.74		29.89		30.21	
7	1290662	384454	389381	33.19		33.23		33.40		33.61	
8	1290572	384624	389363	33.34		33.37		33.49		33.69	
9	1290830	384929	389361	33.65		33.69		33.89		34.21	
10	1290733	385057	389394	34.04		34.12		34.43		34.96	

Data in this table comes from the Upper Mersey 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

Label	Modelled location ID	Easting	Northing	1% AEP (+30%)		1% AEP (+35%)		1% AEP (+70%)		0.1% AEP (+30%)	
				Flow		Flow		Flow		Flow	
1	1290570	384032	389405	432.11		441.02		479.24		554.67	
2	1290517	384205	389344	420.03		432.13		485.35		597.32	
3	1290541	384232	390062	441.21		452.0		490.21		553.50	
4	1290767	384402	389383	477.18		493.36		557.24		689.95	
5	1290645	384425	389610	12.30		12.32		12.62		13.40	
6	1290586	384427	389424	0.50		0.50		0.50		0.50	
7	1290662	384454	389381	477.18		493.36		557.24		689.95	
8	1290572	384624	389363	488.72		508.09		589.21		738.06	
9	1290830	384929	389361	488.38		508.38		589.73		744.02	
10	1290733	385057	389394	478.45		495.11		566.0		708.62	

Data in this table comes from the Upper Mersey 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.



Modelled node locations data

Defended

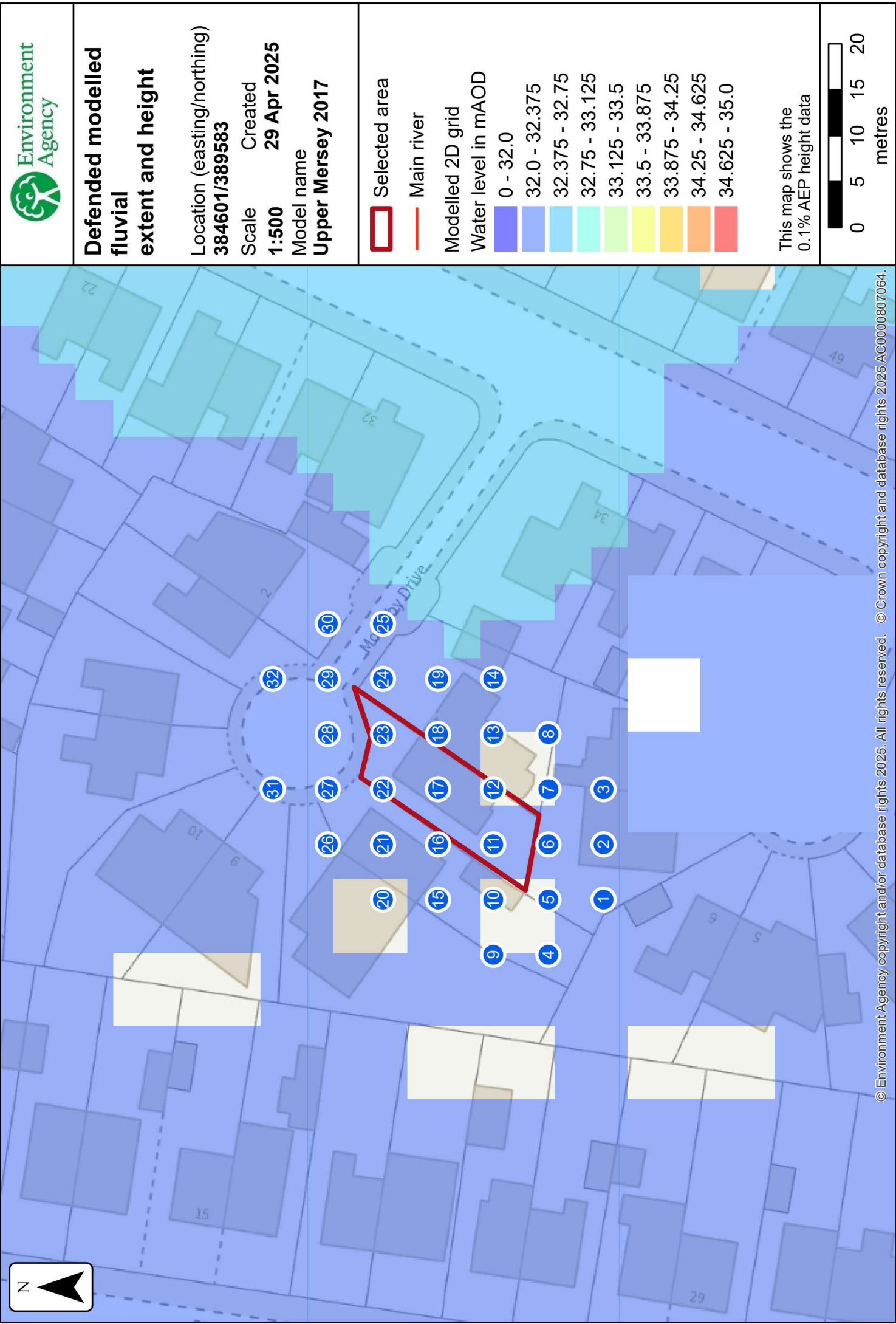
Label	Modelled location ID	Easting	Northing	1% AEP	0.5% AEP	0.1% AEP
				Level	Level	Level
1	1290570	384032	389405	32.41	32.68	33.26
2	1290517	384205	389344	32.57	32.84	33.43
3	1290541	384232	390062	31.33	31.40	31.54
4	1290767	384402	389383	32.79	32.98	33.43
5	1290645	384425	389610	29.42	29.49	29.92
6	1290586	384427	389424	29.43	29.50	29.92
7	1290662	384454	389381	32.79	32.98	33.43
8	1290572	384624	389363	32.96	33.13	33.53
9	1290830	384929	389361	33.24	33.38	33.94
10	1290733	385057	389394	33.54	33.69	34.51

Data in this table comes from the Upper Mersey 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

Label	Modelled location ID	Easting	Northing	1% AEP		0.5% AEP		0.1% AEP	
				Flow		Flow		Flow	
1	1290570	384032	389405	361.11		381.88		493.66	
2	1290517	384205	389344	363.46		389.60		501.32	
3	1290541	384232	390062	358.54		393.69		499.52	
4	1290767	384402	389383	367.25		408.39		576.64	
5	1290645	384425	389610	12.12		12.20		12.90	
6	1290586	384427	389424	0.50		0.50		0.50	
7	1290662	384454	389381	397.44		423.22		576.64	
8	1290572	384624	389363	397.46		422.90		611.61	
9	1290830	384929	389361	397.52		423.07		611.88	
10	1290733	385057	389394	397.20		421.92		586.99	

Data in this table comes from the Upper Mersey 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.



Sample point 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
			Depth	Depth	Depth	Depth	Depth	Depth	Depth	Depth	Depth	Depth	Depth
25	384619	389590	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.26
26	384595	389596	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.08
27	384601	389596	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.19
28	384607	389596	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.18
29	384613	389596	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.30
30	384619	389596	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.34
31	384601	389602	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.18
32	384613	389602	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.26
Max value in selected area:			NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.13

Data in this table comes from the Upper Mersey 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
			Height	Height	Height	Height	Height	Height	Height	Height	Height	Height	Height
25	384619	389590	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	32.38
26	384595	389596	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	32.37
27	384601	389596	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	32.37
28	384607	389596	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	32.37
29	384613	389596	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	32.37
30	384619	389596	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	32.37
31	384601	389602	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	32.37
32	384613	389602	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	32.37
Max value in selected area:			NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	32.37

Data in this table comes from the Upper Mersey 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.

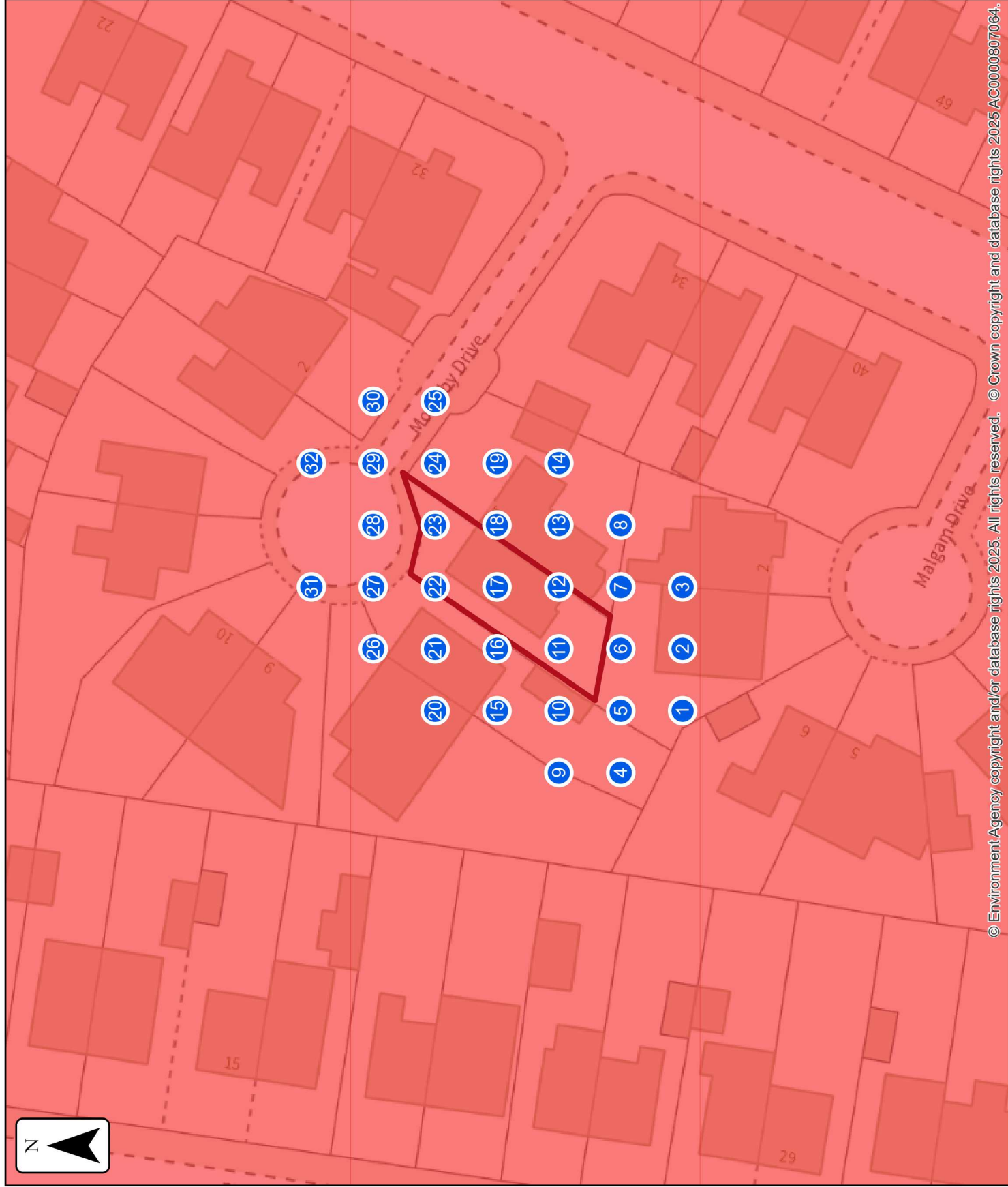
Cells which contain text 'NoData' for a scenario show that return period has been modelled but there is no flood risk for that return period for that location.

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

Model name
Upper Mersey 2017

30 625 - 350

A vertical scale bar with alternating black and white segments. The segments are labeled 0, 5, 10, 15, and 20 metres.



[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	384619	389590	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.55
26	384595	389596	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.37
27	384601	389596	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.48
28	384607	389596	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.47
29	384613	389596	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.58
30	384619	389596	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.63
31	384601	389602	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.47
32	384613	389602	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.55
Max value in selected area:			NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.42

Data in this table comes from the Upper Mersey 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]

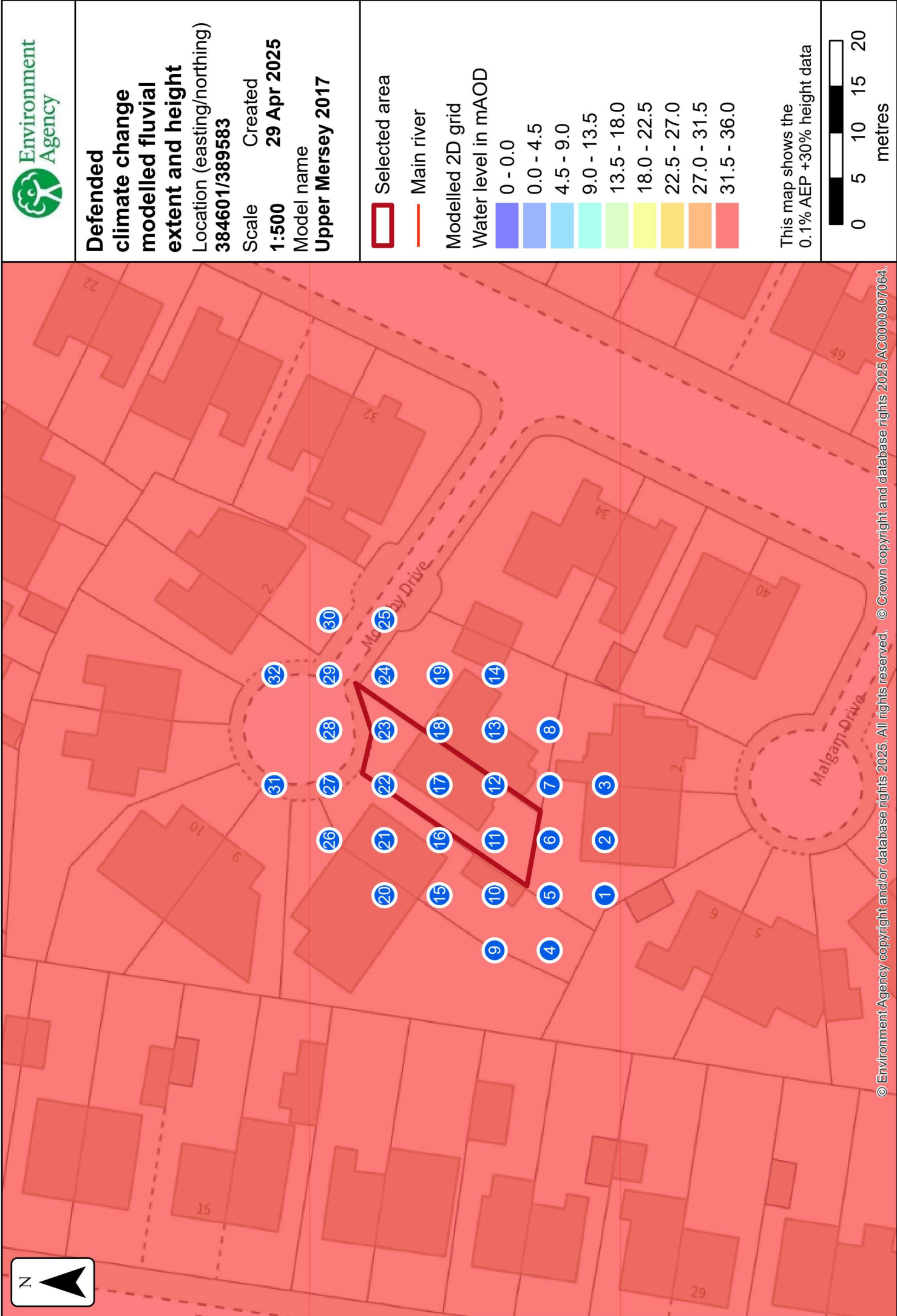
Label	Easting	Northing	50% AEP	20% AEP	10% AEP	5% AEP	4% AEP	3.33% AEP	2% AEP	1.33% AEP	1% AEP	0.5% AEP	0.1% AEP
			Height	Height	Height	Height	Height	Height	Height	Height	Height	Height	Height
25	384619	389590	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	32.66
26	384595	389596	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	32.66
27	384601	389596	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	32.66
28	384607	389596	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	32.66
29	384613	389596	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	32.66
30	384619	389596	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	32.66
31	384601	389602	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	32.66
32	384613	389602	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	32.66
Max value in selected area:			NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	32.68

Data in this table comes from the Upper Mersey 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.



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Sample point data

Defended climate change

Label	Easting	Northing	1% AEP (+30%)		1% AEP (+35%)		1% AEP (+70%)		0.1% AEP (+30%)	
			Depth		Depth		Depth		Depth	
1	384589	389566	NoData		NoData		0.04		0.97	
2	384595	389566	NoData		NoData		0.01		0.91	
3	384601	389566	NoData		NoData		NoData		0.74	
4	384583	389572	NoData		NoData		0.07		1.02	
5	384589	389572	NoData		NoData		NoData		0.89	
6	384595	389572	NoData		NoData		NoData		0.93	
7	384601	389572	NoData		NoData		NoData		0.68	
8	384607	389572	NoData		NoData		NoData		0.75	
9	384583	389578	NoData		NoData		0.04		0.99	
10	384589	389578	NoData		NoData		NoData		0.82	
11	384595	389578	NoData		NoData		NoData		0.85	
12	384601	389578	NoData		NoData		NoData		0.69	

Label	Easting	Northing	1% AEP (+30%)		1% AEP (+35%)		1% AEP (+70%)		0.1% AEP (+30%)	
			Depth		Depth		Depth		Depth	
13	384607	389578	NoData		NoData		NoData		0.75	
14	384613	389578	NoData		NoData		NoData		0.78	
15	384589	389584	NoData		NoData		NoData		0.84	
16	384595	389584	NoData		NoData		NoData		0.73	
17	384601	389584	NoData		NoData		0.02		0.81	
18	384607	389584	NoData		NoData		0.02		0.84	
19	384613	389584	NoData		NoData		0.09		0.89	
20	384589	389590	NoData		NoData		NoData		0.78	
21	384595	389590	NoData		NoData		NoData		0.73	
22	384601	389590	NoData		NoData		0.06		0.88	
23	384607	389590	NoData		NoData		0.06		0.87	
24	384613	389590	NoData		NoData		0.15		0.95	

Label	Easting	Northing	1% AEP (+30%)		1% AEP (+35%)		1% AEP (+70%)		0.1% AEP (+30%)	
			Depth		Depth		Depth		Depth	
25	384619	389590	NoData		0.02		0.22		1.02	
26	384595	389596	NoData		NoData		0.04		0.84	
27	384601	389596	NoData		NoData		0.15		0.95	
28	384607	389596	NoData		NoData		0.14		0.94	
29	384613	389596	NoData		NoData		0.26		1.06	
30	384619	389596	NoData		0.06		0.30		1.10	
31	384601	389602	NoData		NoData		0.14		0.94	
32	384613	389602	NoData		NoData		0.22		1.02	
Max value in selected area:			NoData		NoData		0.09		0.89	

Data in this table comes from the Upper Mersey 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%)		
			Height			Height			Height			Height		
1	384589	389566	NoData			NoData			32.21			33.14		
2	384595	389566	NoData			NoData			32.24			33.14		
3	384601	389566	NoData			NoData			NoData			33.14		
4	384583	389572	NoData			NoData			32.18			33.14		
5	384589	389572	NoData			NoData			NoData			33.14		
6	384595	389572	NoData			NoData			NoData			33.14		
7	384601	389572	NoData			NoData			NoData			33.14		
8	384607	389572	NoData			NoData			NoData			33.14		
9	384583	389578	NoData			NoData			32.17			33.14		
10	384589	389578	NoData			NoData			NoData			33.14		
11	384595	389578	NoData			NoData			NoData			33.14		
12	384601	389578	NoData			NoData			NoData			33.14		

Label	Easting	Northing	1% AEP (+30%)		1% AEP (+35%)		1% AEP (+70%)		0.1% AEP (+30%)	
			Height	Height	Height	Height	Height	Height	Height	Height
13	384607	389578	NoData	NoData	NoData	NoData	NoData	NoData	33.14	
14	384613	389578	NoData	NoData	NoData	NoData	NoData	NoData	33.14	
15	384589	389584	NoData	NoData	NoData	NoData	NoData	NoData	33.14	
16	384595	389584	NoData	NoData	NoData	NoData	NoData	NoData	33.14	
17	384601	389584	NoData	NoData	NoData	NoData	32.30	32.30	33.14	
18	384607	389584	NoData	NoData	NoData	NoData	32.31	32.31	33.13	
19	384613	389584	NoData	NoData	NoData	NoData	32.33	32.33	33.14	
20	384589	389590	NoData	NoData	NoData	NoData	NoData	NoData	33.14	
21	384595	389590	NoData	NoData	NoData	NoData	NoData	NoData	33.14	
22	384601	389590	NoData	NoData	NoData	NoData	32.31	32.31	33.13	
23	384607	389590	NoData	NoData	NoData	NoData	32.32	32.32	33.13	
24	384613	389590	NoData	NoData	NoData	NoData	32.33	32.33	33.14	

Label	Easting	Northing	1% AEP (+30%)		1% AEP (+35%)		1% AEP (+70%)		0.1% AEP (+30%)	
			Height		Height		Height		Height	
25	384619	389590	NoData		32.09		32.34		33.14	
26	384595	389596	NoData		NoData		32.33		33.13	
27	384601	389596	NoData		NoData		32.33		33.13	
28	384607	389596	NoData		NoData		32.33		33.13	
29	384613	389596	NoData		NoData		32.33		33.13	
30	384619	389596	NoData		32.09		32.33		33.13	
31	384601	389602	NoData		NoData		32.33		33.13	
32	384613	389602	NoData		NoData		32.33		33.13	
Max value in selected area:			NoData		NoData		32.33		33.14	

Data in this table comes from the Upper Mersey 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
climate change
modelled fluvial
extent and height**

Location (easting/northing)
384601/389583

Scale Created
1:500 29 Apr 2025

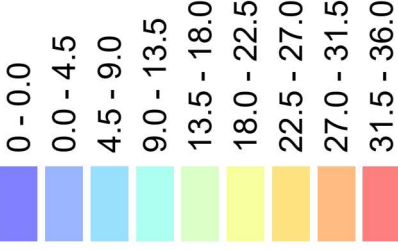
Model name
Upper Mersey 2017

Selected area

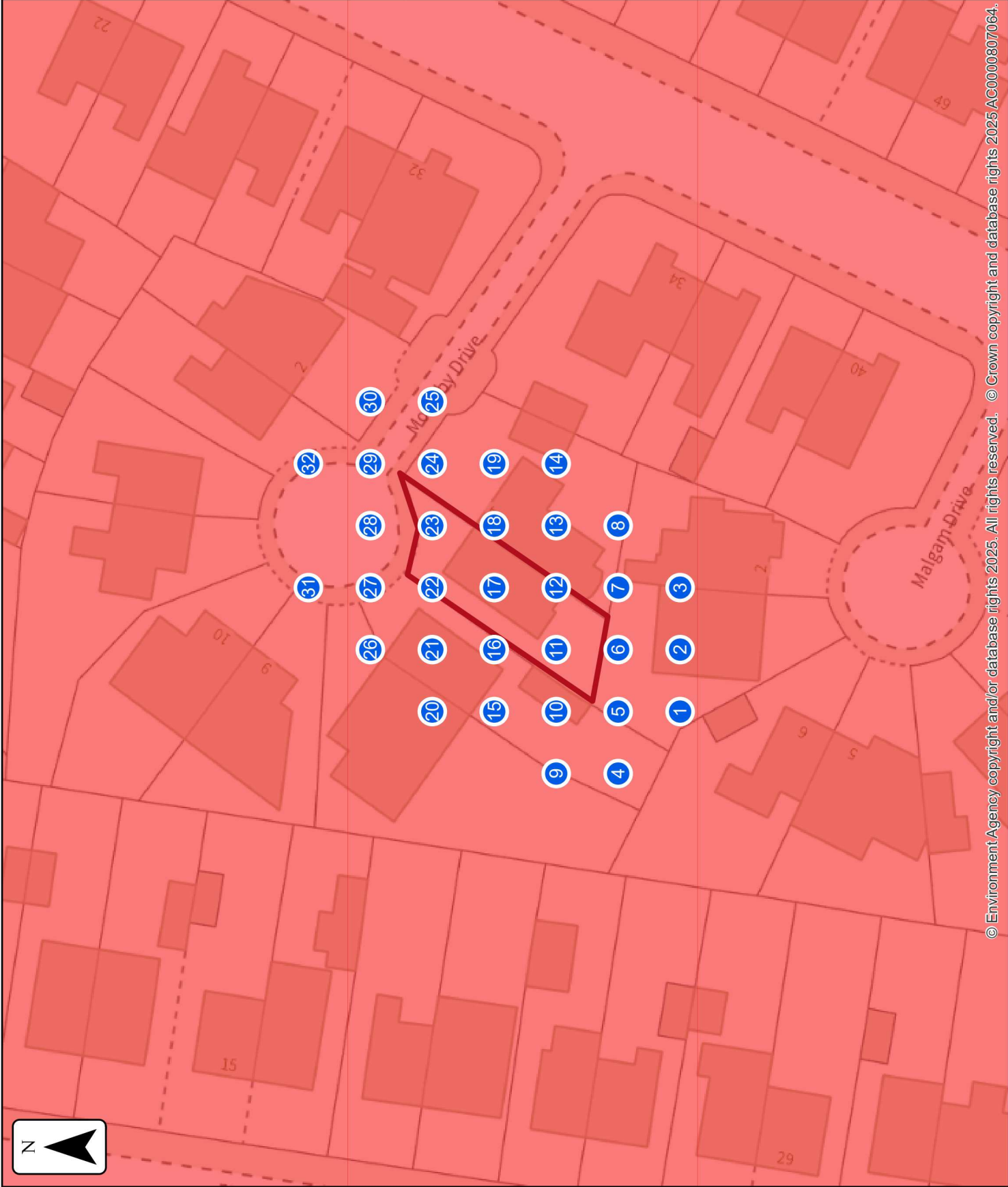
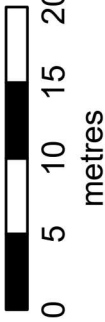
Main river

Modelled 2D grid

Water level in mAOD



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		Depth		Depth		Depth	
1	384589	389566	0.03		0.08		0.45		1.07	
2	384595	389566	0.01		0.05		0.39		1.01	
3	384601	389566	NoData		0		0.22		0.84	
4	384583	389572	0.08		0.12		0.49		1.11	
5	384589	389572	NoData		NoData		0.36		0.99	
6	384595	389572	NoData		NoData		0.40		1.03	
7	384601	389572	NoData		NoData		0.14		0.78	
8	384607	389572	NoData		NoData		0.21		0.85	
9	384583	389578	0.05		0.09		0.46		1.09	
10	384589	389578	NoData		NoData		0.28		0.91	
11	384595	389578	NoData		NoData		0.32		0.95	
12	384601	389578	NoData		NoData		0.15		0.79	

Label	Easting	Northing	1% AEP (+30%)		1% AEP (+35%)		1% AEP (+70%)		0.1% AEP (+30%)	
			Depth		Depth		Depth		Depth	
13	384607	389578	NoData		NoData		0.21		0.85	
14	384613	389578	NoData		NoData		0.24		0.88	
15	384589	389584	NoData		NoData		0.31		0.94	
16	384595	389584	NoData		NoData		0.19		0.83	
17	384601	389584	NoData		NoData		0.27		0.91	
18	384607	389584	NoData		NoData		0.30		0.94	
19	384613	389584	NoData		NoData		0.34		0.99	
20	384589	389590	NoData		NoData		0.24		0.88	
21	384595	389590	NoData		NoData		0.19		0.83	
22	384601	389590	NoData		NoData		0.33		0.97	
23	384607	389590	NoData		NoData		0.32		0.97	
24	384613	389590	0.02		0.06		0.40		1.05	

Label	Easting	Northing	1% AEP (+30%)		1% AEP (+35%)		1% AEP (+70%)		0.1% AEP (+30%)	
			Depth		Depth		Depth		Depth	
25	384619	389590	0.06		0.11		0.47		1.12	
26	384595	389596	NoData		NoData		0.29		0.94	
27	384601	389596	NoData		NoData		0.40		1.05	
28	384607	389596	NoData		NoData		0.39		1.04	
29	384613	389596	0.09		0.14		0.51		1.15	
30	384619	389596	0.14		0.18		0.55		1.20	
31	384601	389602	NoData		NoData		0.39		1.03	
32	384613	389602	0.06		0.10		0.47		1.12	
Max value in selected area:			0.01		0.03		0.34		0.99	

Data in this table comes from the Upper Mersey 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 climate change

Label	Easting	Northing	1% AEP (+30%)	1% AEP (+35%)	1% AEP (+70%)	0.1% AEP (+30%)
			Height	Height	Height	Height
1	384589	389566	32.20	32.26	32.62	33.24
2	384595	389566	32.23	32.28	32.62	33.24
3	384601	389566	NoData	32.32	32.62	33.24
4	384583	389572	32.18	32.24	32.61	33.24
5	384589	389572	NoData	NoData	32.61	33.24
6	384595	389572	NoData	NoData	32.61	33.24
7	384601	389572	NoData	NoData	32.60	33.24
8	384607	389572	NoData	NoData	32.60	33.24
9	384583	389578	32.18	32.24	32.61	33.24
10	384589	389578	NoData	NoData	32.61	33.24
11	384595	389578	NoData	NoData	32.61	33.24
12	384601	389578	NoData	NoData	32.60	33.24

Label	Easting	Northing	1% AEP (+30%)		1% AEP (+35%)		1% AEP (+70%)		0.1% AEP (+30%)	
			Height	Height	Height	Height	Height	Height	Height	Height
13	384607	389578	NoData	NoData	NoData	NoData	32.60	33.24		
14	384613	389578	NoData	NoData	NoData	NoData	32.59	33.24		
15	384589	389584	NoData	NoData	NoData	NoData	32.60	33.24		
16	384595	389584	NoData	NoData	NoData	NoData	32.60	33.23		
17	384601	389584	NoData	NoData	NoData	NoData	32.59	33.23		
18	384607	389584	NoData	NoData	NoData	NoData	32.59	33.23		
19	384613	389584	NoData	NoData	NoData	NoData	32.59	33.23		
20	384589	389590	NoData	NoData	NoData	NoData	32.60	33.24		
21	384595	389590	NoData	NoData	NoData	NoData	32.59	33.23		
22	384601	389590	NoData	NoData	NoData	NoData	32.59	33.23		
23	384607	389590	NoData	NoData	NoData	NoData	32.58	33.23		
24	384613	389590	32.17	32.22			32.58	33.23		

Label	Easting	Northing	1% AEP (+30%)		1% AEP (+35%)		1% AEP (+70%)		0.1% AEP (+30%)	
			Height		Height		Height		Height	
25	384619	389590	32.17		32.23		32.59		33.23	
26	384595	389596	NoData		NoData		32.59		33.23	
27	384601	389596	NoData		NoData		32.59		33.23	
28	384607	389596	NoData		NoData		32.58		33.23	
29	384613	389596	32.17		32.22		32.58		33.23	
30	384619	389596	32.17		32.22		32.58		33.23	
31	384601	389602	NoData		NoData		32.58		33.23	
32	384613	389602	32.17		32.21		32.58		33.23	
Max value in selected area:			32.17		32.22		32.61		33.24	

Data in this table comes from the Upper Mersey 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.

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