FLOOD ZONE 2 : DOMESTIC EXTENSION – FLOOD RISK STATEMENT

89 MELLINGTON AVENUE, EAST DIDSBURY, MANCHESTER M20 5WF

Fig.1 The site is within Flood zone 2 as noted in the plan below from the Environment Agency

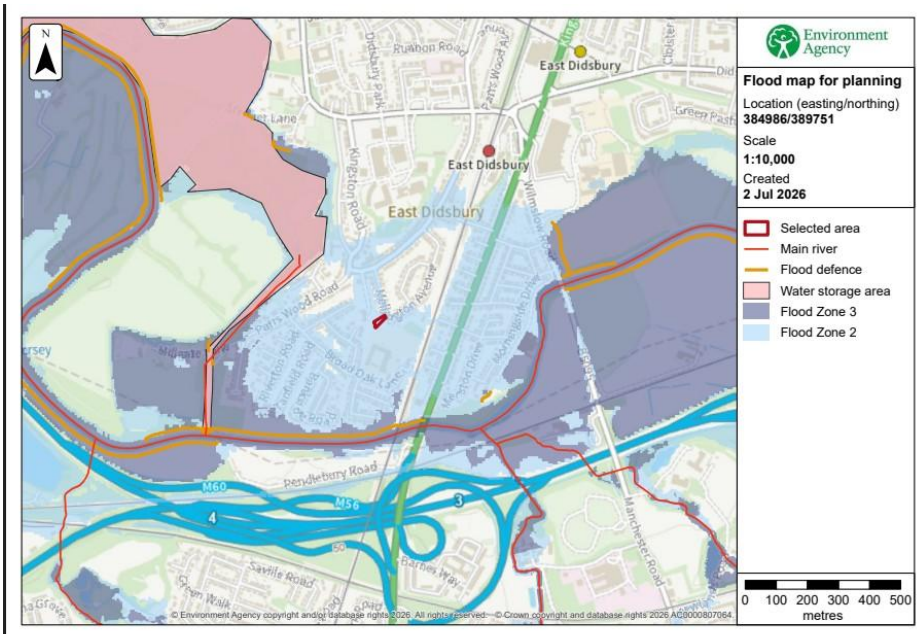


Fig.2 There are flood defences protecting the immediate adjacent area as noted on the hatched area on the map below.

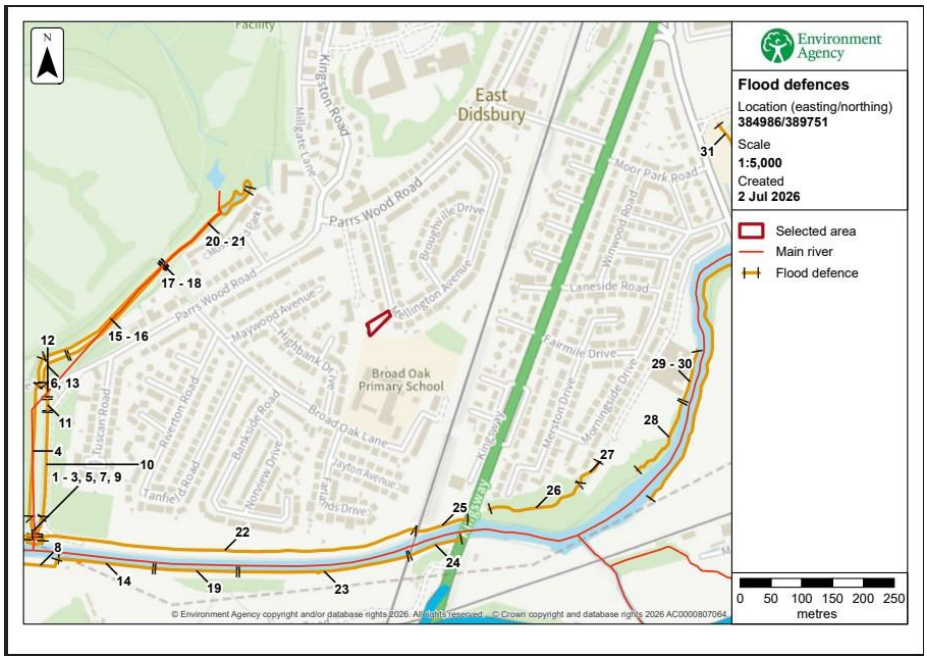


Fig.3 The historic flood map incidence from 1964 shows no flooding history to the property.

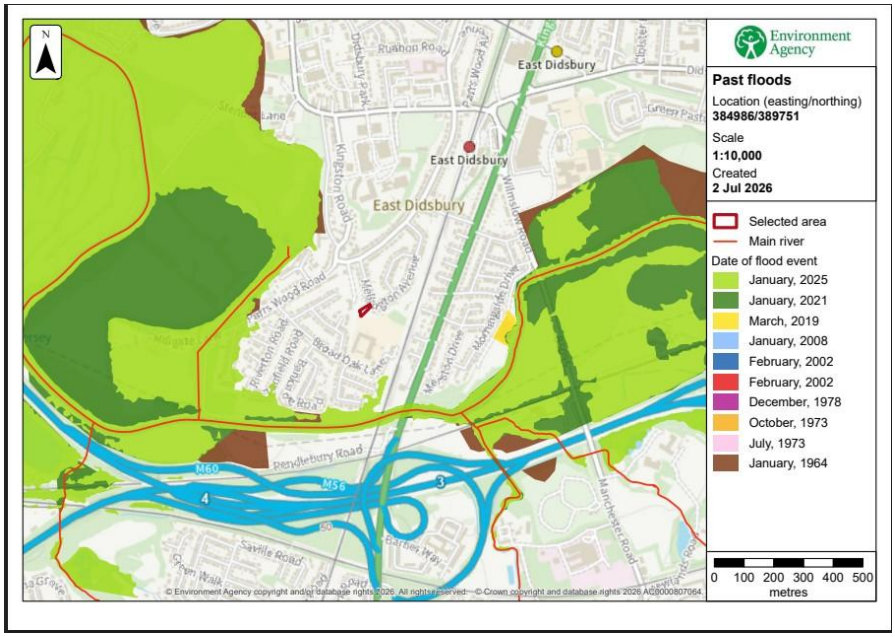
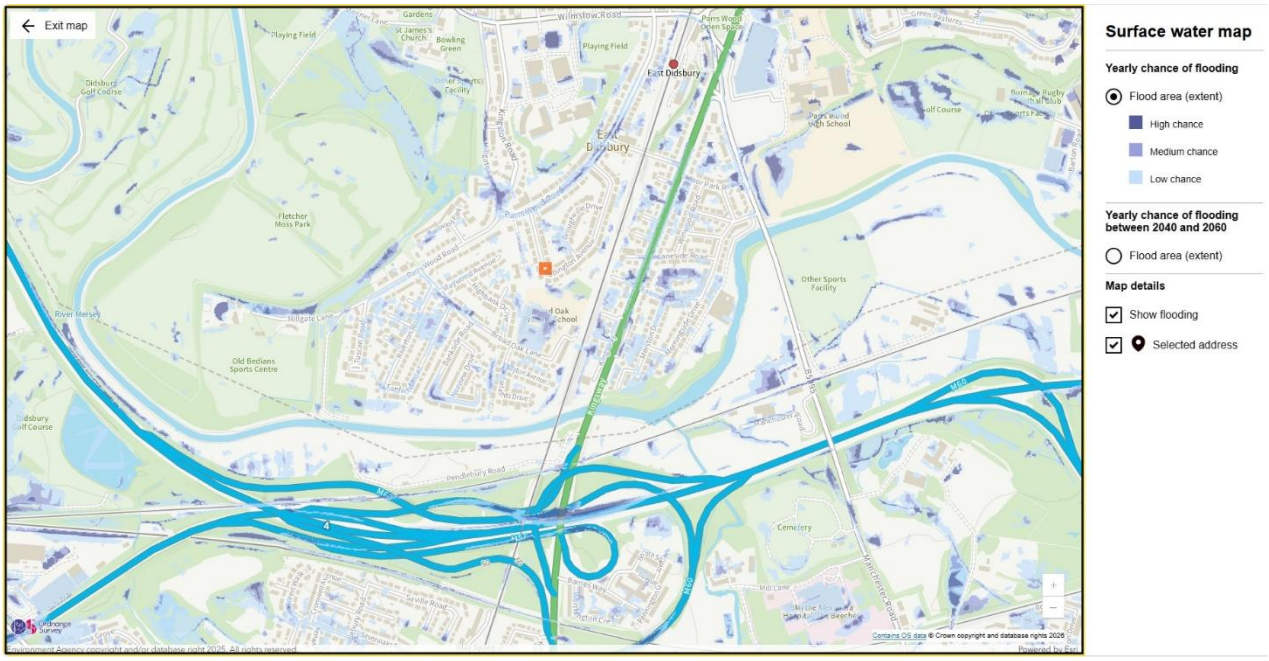


Fig 4 illustrates the likely (low) risk from surface water sources.



Historic Flood data.

Further to consultation with the Environment Agency there are no records of any historic flooding to this area. see email below.

Request for information - Ref: EIR2026/31356

GM Greater Manchester, Merseyside and Cheshire Enquiries <inforequests.gmmc@environment-agency.gov.uk>
T [redacted]

Follow up.

3X1MB72GPYGA Auto.pdf
2 MB

Our ref: EIR2026/31356

Your ref:

Dear Simon Miles,

I am writing in response to your request for information, received 2 July 2026, regarding Request for Flood risk assessment data (product 4). Customer request reference 3X1MB72GPYGA.

We respond to requests for information under the Freedom of Information Act 2000 (FOI) and Environmental Information Regulations 2004 (EIR). Please find attached data.

Although there are no recorded flood outlines at the site, we have provided a map to show previous flooding nearby.

However, this does not mean flooding has not occurred in the past or that it will not flood in future.

We recommend that you also contact United Utilities and Lead Local Flood Authority Manchester Council, who may hold additional information (the former especially in relation to sewer flooding).

Lead Local Flood Authority Manchester Council is responsible for issues relating to surface water and hold information on surface water flooding.

For further surface information: Surface water map - Check your long term flood risk - GOV.UK

For further information on your property's flood risk, visit:

Check Your Long Term Flood Risk: Check the long term flood risk for an area in England - GOV.UK

Check for Flooding: Check for flooding in England - GOV.UK

Sign up for flood warnings: Get flood warnings

Flood Map for Planning: https://flood-map-for-planning.service.gov.uk/

For additional flood risk information, advice and support in your area, please visit: https://thefloodhub.co.uk/

For more information on how the rivers and sea dataset is used and its limitations, we recommend you visit How to use rivers and sea data - Flood map for planning - GOV.UK

Please refer to the Open Government Licence which explains the permitted use of this information.

Rights of appeal

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

If you are not satisfied with the outcome of the internal review, you can then make an appeal to the Information Commissioner Office, the statutory regulator for the Environmental Information Regulations 2004 and the Freedom of Information Act 2000. Please follow this link to the ICO online complaints portal. The address is: Information Commissioner's Office, Wycliffe House, Water Lane, Wilmslow, Cheshire. SK9 5AF.

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

Yours sincerely,

Anne Ball

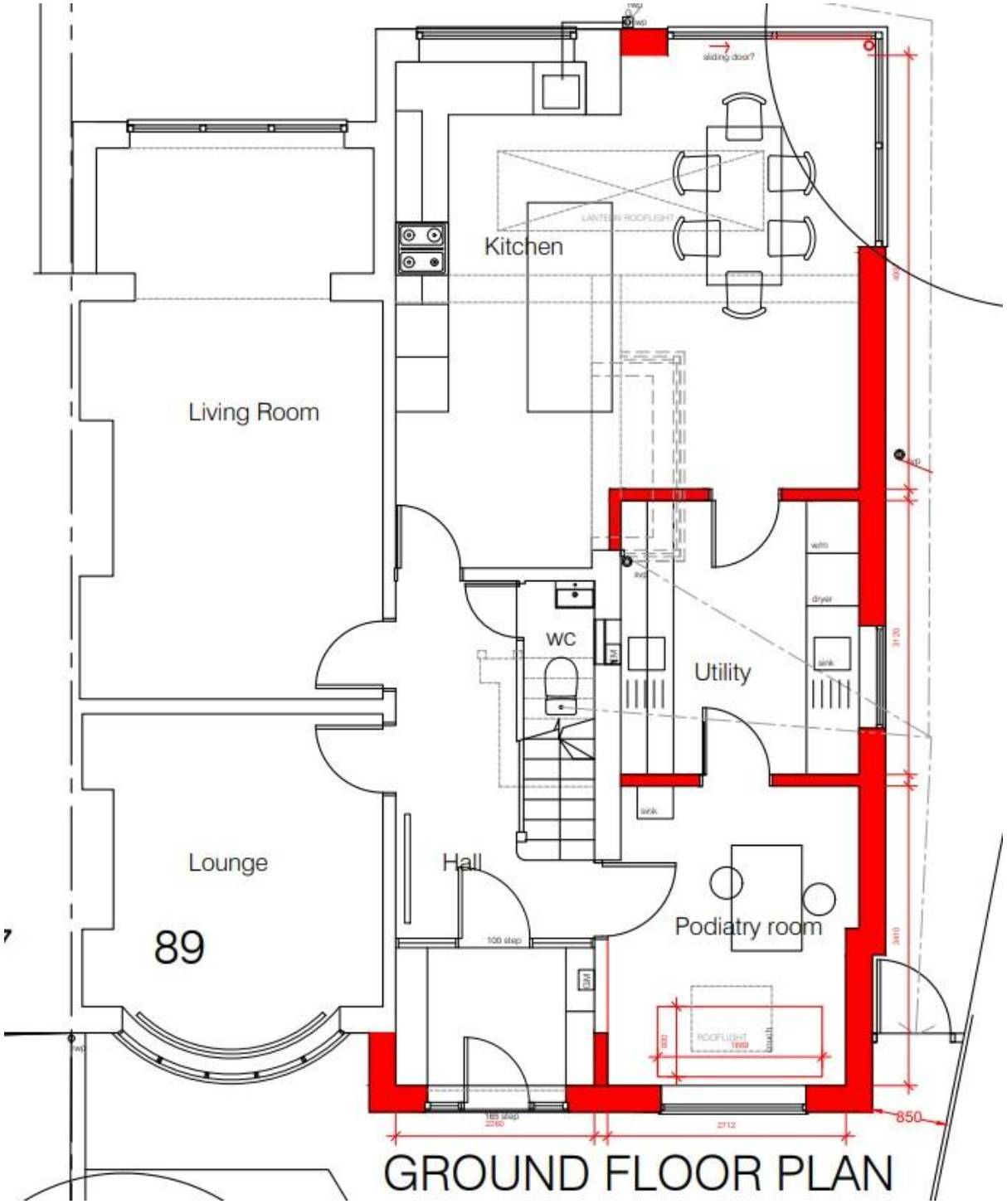
GMMC Area Customers and Engagement Team

Defended 1:100 year flood level calculation is noted as 33.79m

Existing ground level is at 33.6m AOD.

The ground floor of the house is a minimum of 265mm above external ground level at 33.865m

The ground floor level is therefore 75mm higher than the 1:100 year flood risk datum.


Kitchen
Living Room
WC
Utility
Lounge
Hall
Podiatry room
89
sliding door?
LANTERN ROOFLIGHT
wm
dryer
sink
100 step
ROOFLIGHT
TBS step
2260
2712
850
GROUND FLOOR PLAN

Design Mitigation

The extension to the house will have floor levels set at the same level as the main ground floor of the existing dwelling. 33.865 os datum. It is not practical to raise the floor levels in the extension for reasons of access.

Surface water will be discharged to the existing mains drainage arrangement as for the existing dwelling. All areas of hardstanding will fall away from the property as is good practice. Final drainage design is to be agreed with building control.

Additional measures in place;

The residents subscribe to the EA early flood warning system.

Proposed external materials are resilient and have low porosity.

Electrical installations are all above 300mm of finished floor level

Floor /lower wall finishes are robust.

Escape in the event of flood.

The premises are a two storey semi- detached dwelling.

In the event of flooding the Flood Risk early warning system would offer advance notice, and escape via front/rear doors at ground level would be feasible.

If a situation developed where occupants were unable to escape, then refuge could be taken at first floor level, until emergency services were able to assist.

Escape via first floor windows is possible from front and rear of the premises.

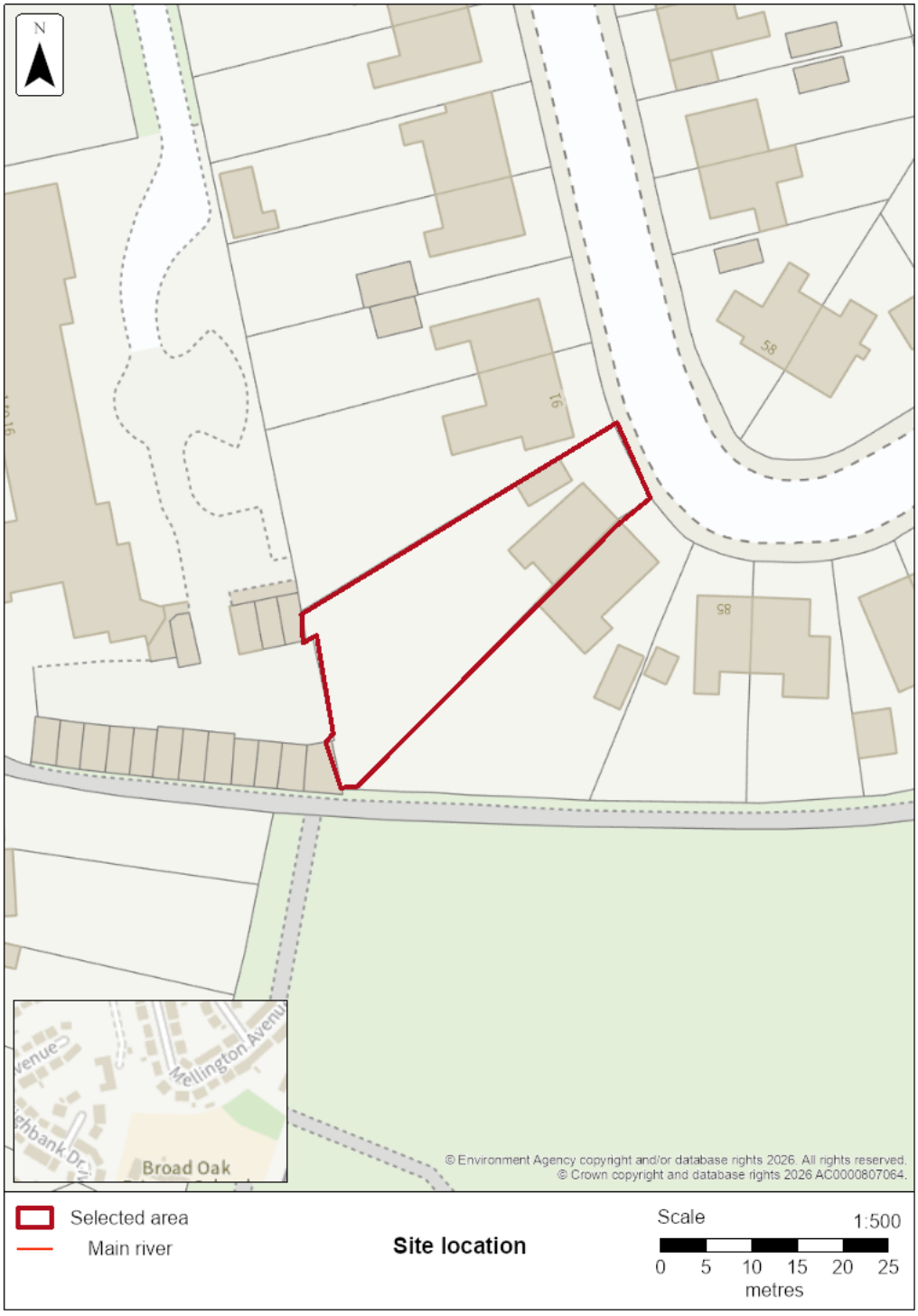
Appendix 1

Environment Agency data received 02.07.2026 regarding Flood defence data

Flood risk assessment data

Location of site: 384986 / 389751 (shown as easting and northing coordinates)
Document created on: 2 July 2026
This information was previously known as a product 4.
Customer reference number: 3X1MB72GPYGA

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 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 defence locations and attributes
- information to help you assess if there is a reduced flood risk from rivers and the sea because of defences
- modelled data
- modelled climate change data
- information about strategic flood risk assessments
- information about this data
- information about flood risk activity permits
- help and advice

Other sources of flooding

To find out about other factors that might affect the flood risk of this location, you should 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 strategic flood risk assessment (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 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:

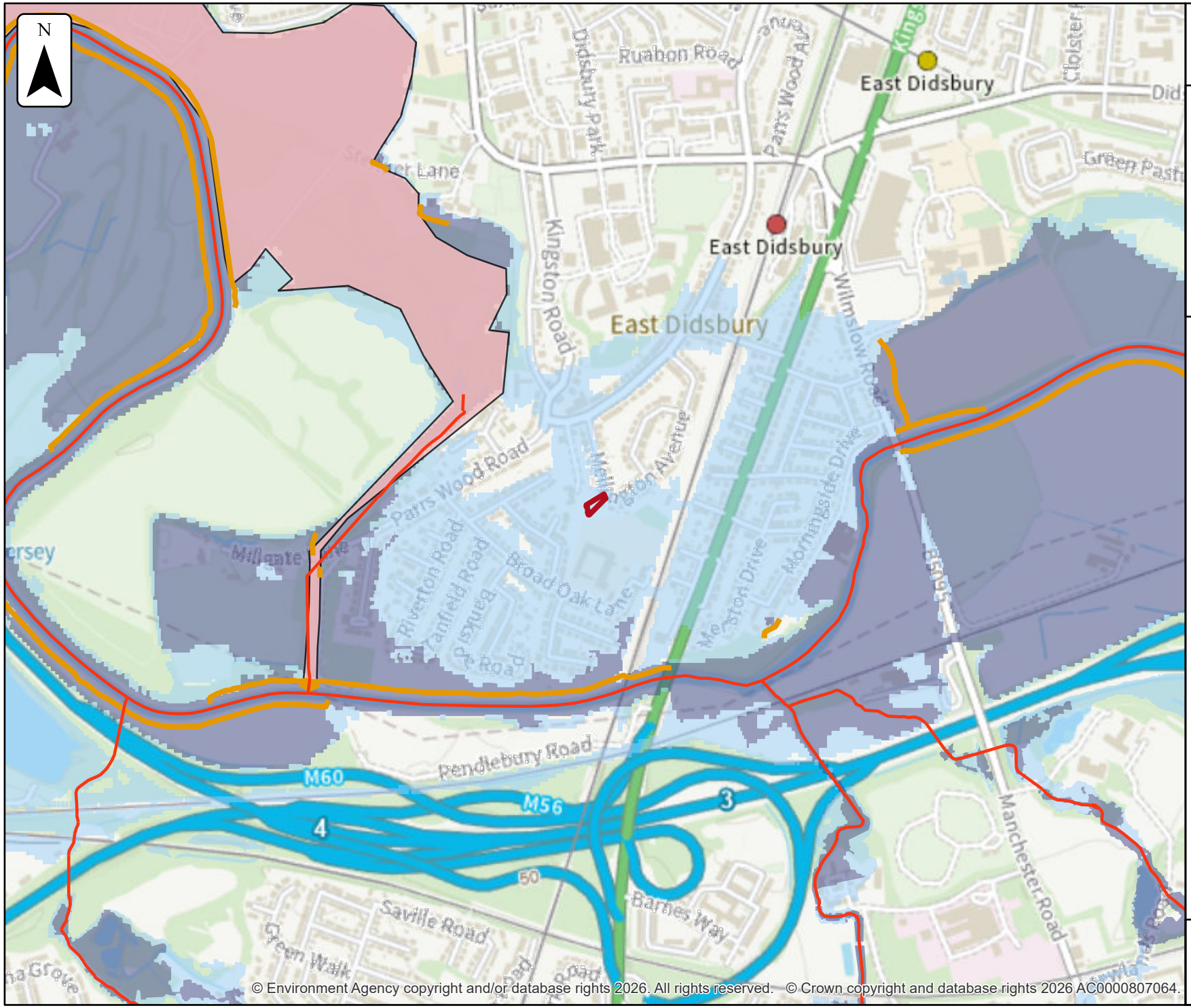
- 0.5% or greater probability of occurring in any year for flooding from the sea
- 1% or greater probability of occurring in any year for fluvial (river) flooding

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



Environment Agency

Flood map for planning

Location (easting/northing)
384986/389751

Scale
1:10,000

Created
2 Jul 2026

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

0 100 200 300 400 500
metres

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.



© Environment Agency copyright and/or database rights 2026. All rights reserved. © Crown copyright and database rights 2026 AC0000807064.

Environment Agency

Past floods

Location (easting/northing)
384986/389751

Scale
1:10,000

Created
2 Jul 2026

- Selected area
- Main river

Date of flood event

- January, 2025
- January, 2021
- March, 2019
- January, 2008
- February, 2002
- February, 2002
- December, 1978
- October, 1973
- July, 1973
- January, 1964

0 100 200 300 400 500
metres

Data on past flood events

Start date	End date	Source of flood	Cause of flood	Affects location
1 January 2025	1 January 2025	main river	channel capacity exceeded (no raised defences)	No
20 January 2021	20 January 2021	main river	other	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
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

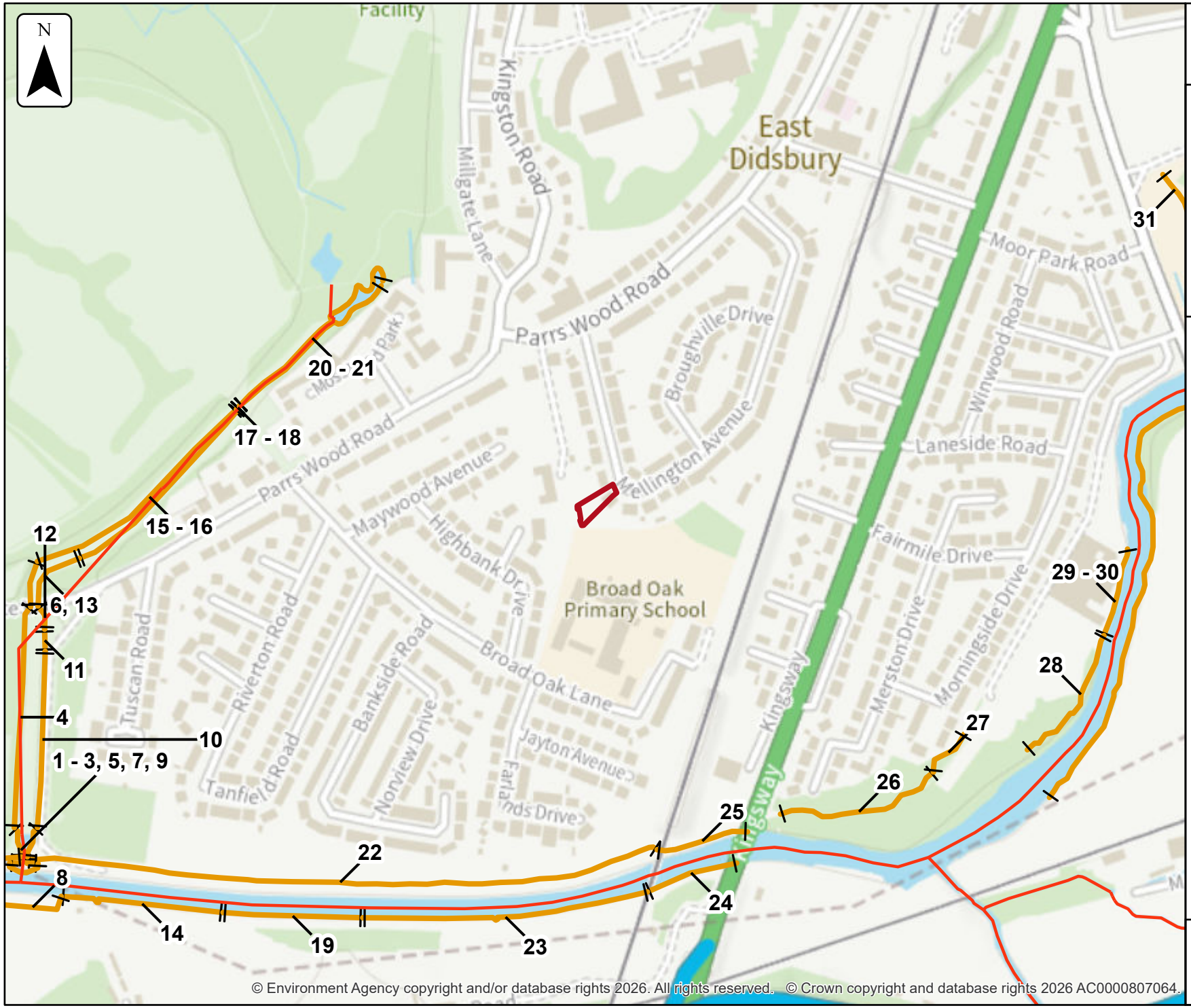
The flood defences map shows the location of the flood defences present.

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



© Environment Agency copyright and/or database rights 2026. All rights reserved. © Crown copyright and database rights 2026 AC0000807064.

Environment Agency

Flood defences

Location (easting/northing)
384986/389751

Scale
1:5,000

Created
2 Jul 2026

- Selected area
- Main river
- Flood defence

0 50 100 150 200 250
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	144885	Embankment	75		33.17	33.17	
3	144886	Engineered High Ground	75		33.17	31.30	
4	144887	Engineered High Ground	75		30.67	31.30	
5	146508	Spillway	100		32.81	32.81	
6	144888	Embankment	75		32.70	30.67	
7	146503	Embankment	75		33.17	33.17	
8	122153	Embankment	100	Fair	32.29	32.84	
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	144890	Engineered High Ground	75		30.49	30.33	
18	146506	Engineered High Ground	75		30.40	29.22	
19	412608	Engineered High Ground	100	Very poor			
20	146507	Engineered High Ground	75		29.59	30.40	

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)
21	146501	Engineered High Ground	75		28.80	30.49	
22	122331	Embankment	50		32.93	34.03	
23	412609	Engineered High Ground	100	Very poor			
24	120921	Engineered High Ground	100	Poor	30.58	29.63	
25	122332	Embankment	100	Fair	33.59	34.27	
26	120925	Embankment	50	Fair	31.97	33.47	
27	178849	Wall	50	Good	35.17	34.63	
28	57528	Embankment			29.51	29.99	
29	120923	Wall			33.81	33.95	
30	112017	Engineered High Ground	50	Fair	34.99	32.81	

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)
31	37538	Embankment	50	Fair	35.82	35.63	

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

Modelled data

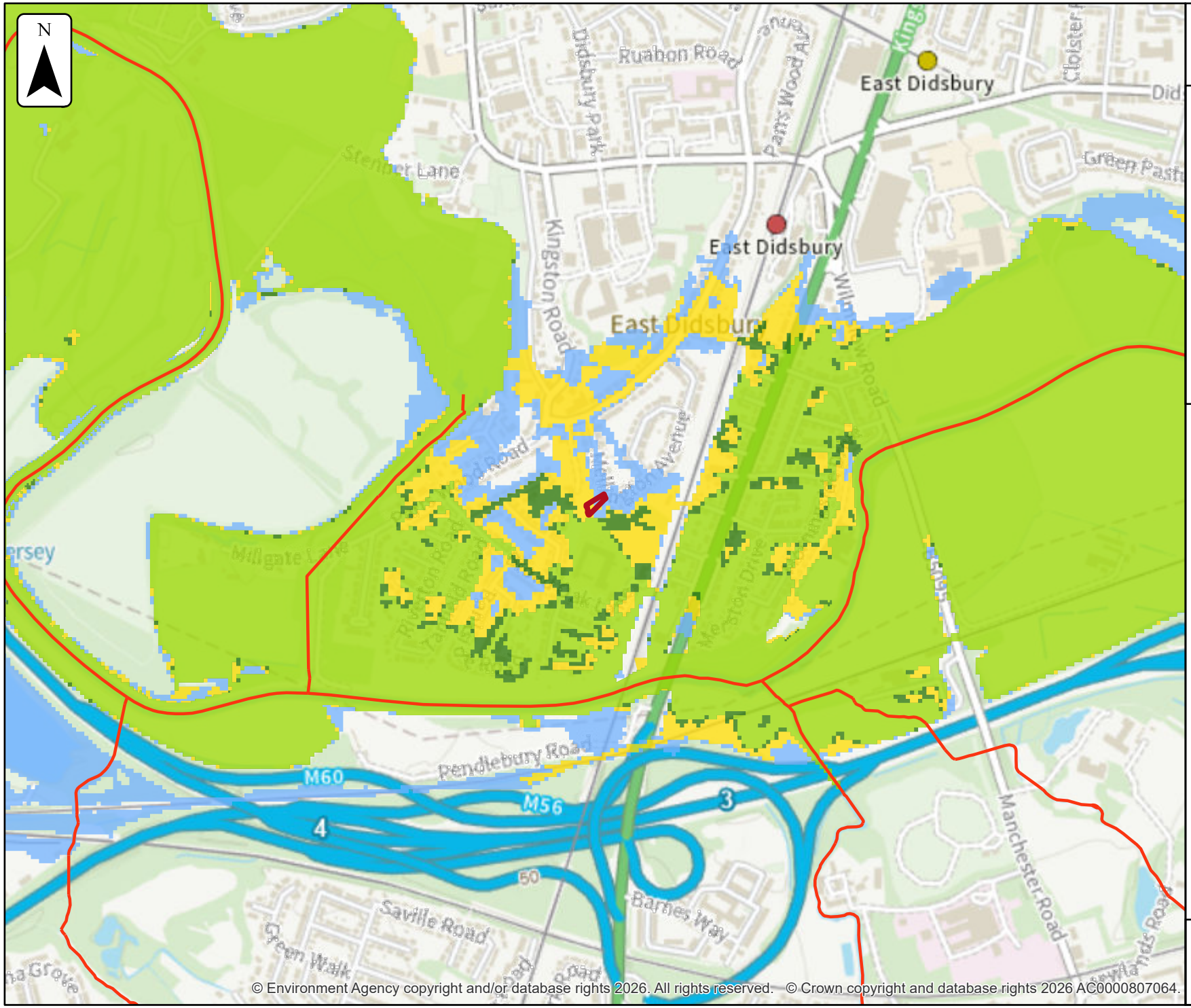
This section provides details of different scenarios we have modelled and includes the following (where available):

- 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.



Environment Agency

Defences removed climate change modelled fluvial extent

Location (easting/northing)
384986/389751

Scale
1:10,000

Created
2 Jul 2026

Model name
Upper Mersey 2017

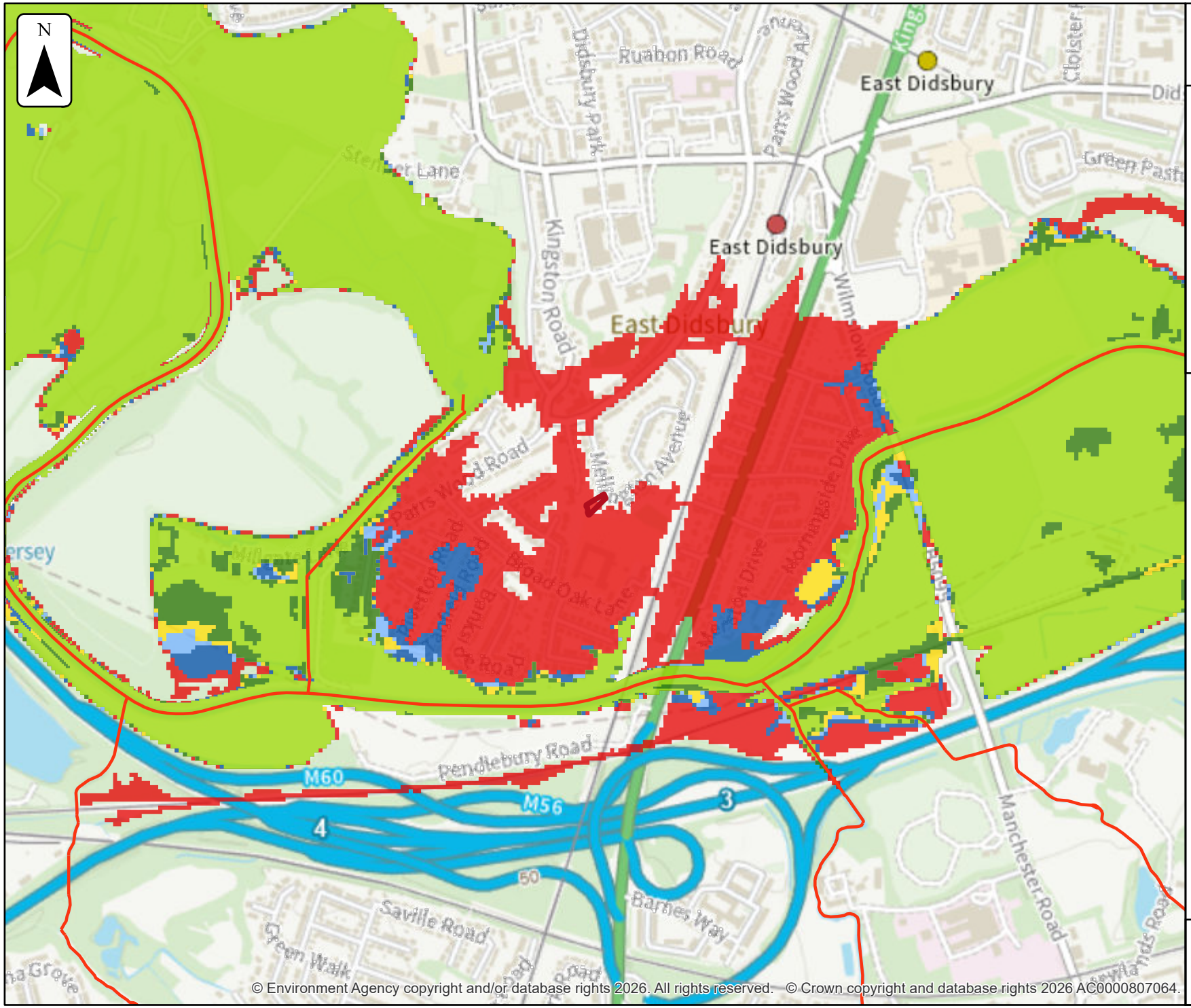
- Selected area
- Main river

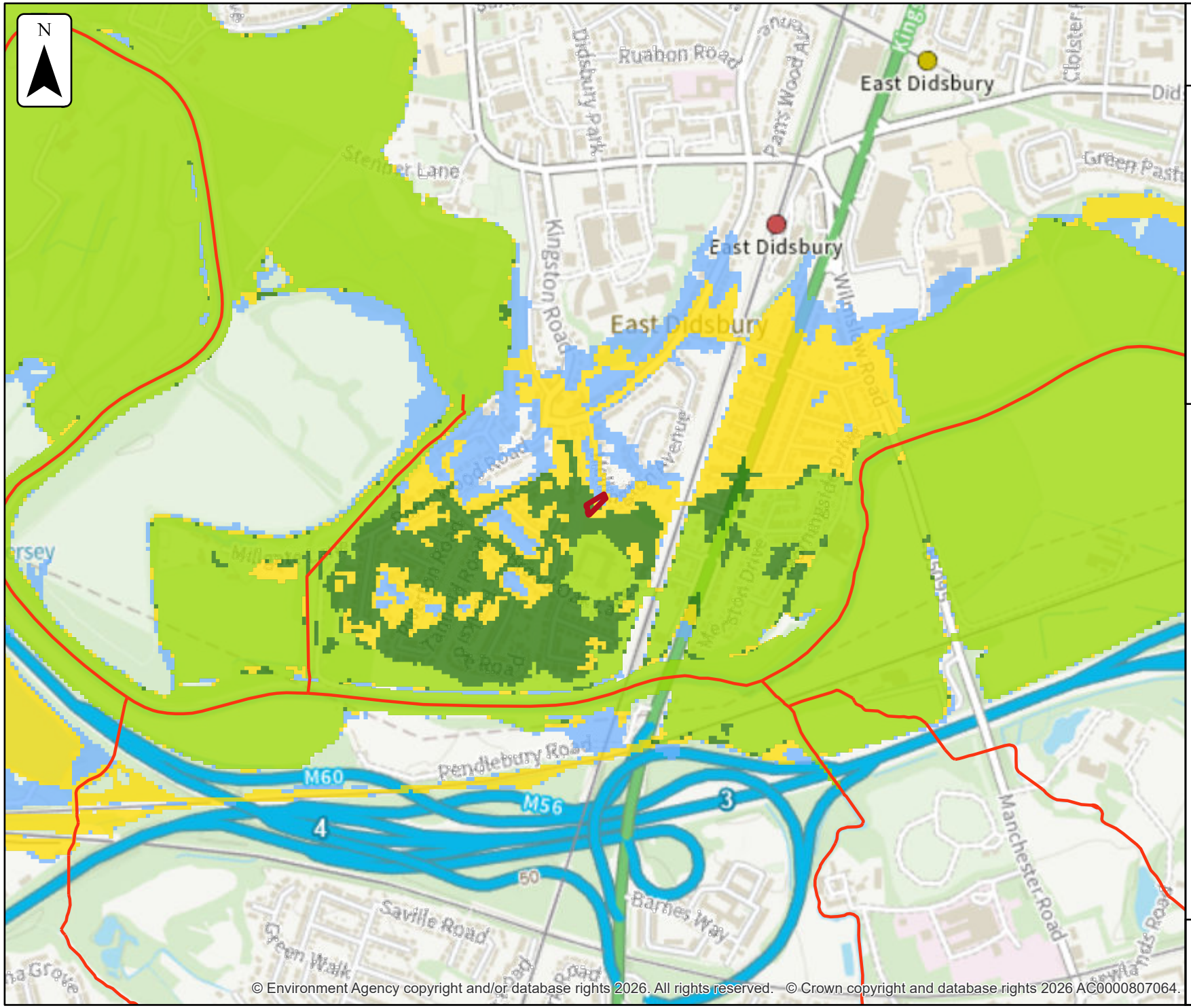
Modelled flood extent

- 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


N
East Didsbury
East Didsbury
East Didsbury
Ruabon Road
Kingston Road
Parrs Wood Avenue
Broad Oak Lane
Mauldeth Road
Pendlebury Road
M60
M56
Barlies Way
Manchester Road
Saville Road
Green Walk
Environment Agency
Defences removed modelled fluvial extent
Location (easting/northing)
384986/389751
Scale
1:10,000
Created
2 Jul 2026
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
© Environment Agency copyright and/or database rights 2026. All rights reserved. © Crown copyright and database rights 2026 AC0000807064.



© Environment Agency copyright and/or database rights 2026. All rights reserved. © Crown copyright and database rights 2026 AC0000807064.

Environment Agency

Defended climate change modelled fluvial extent

Location (easting/northing)
384986/389751

Scale
1:10,000

Created
2 Jul 2026

Model name
Upper Mersey 2017

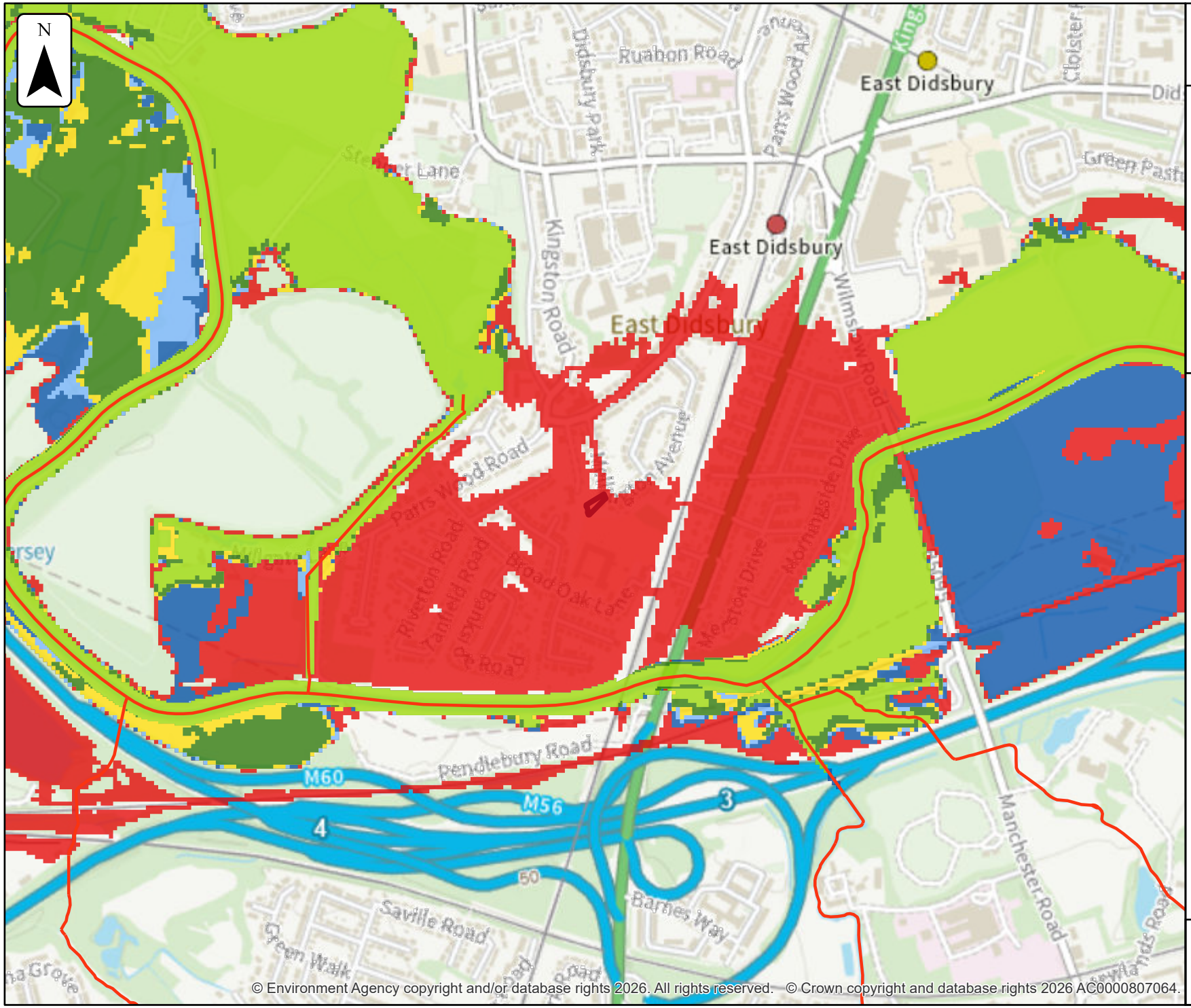
- Selected area
- Main river

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



Environment Agency

Defended modelled fluvial extent

Location (easting/northing)
384986/389751

Scale
1:10,000

Created
2 Jul 2026

Model name
Upper Mersey 2017

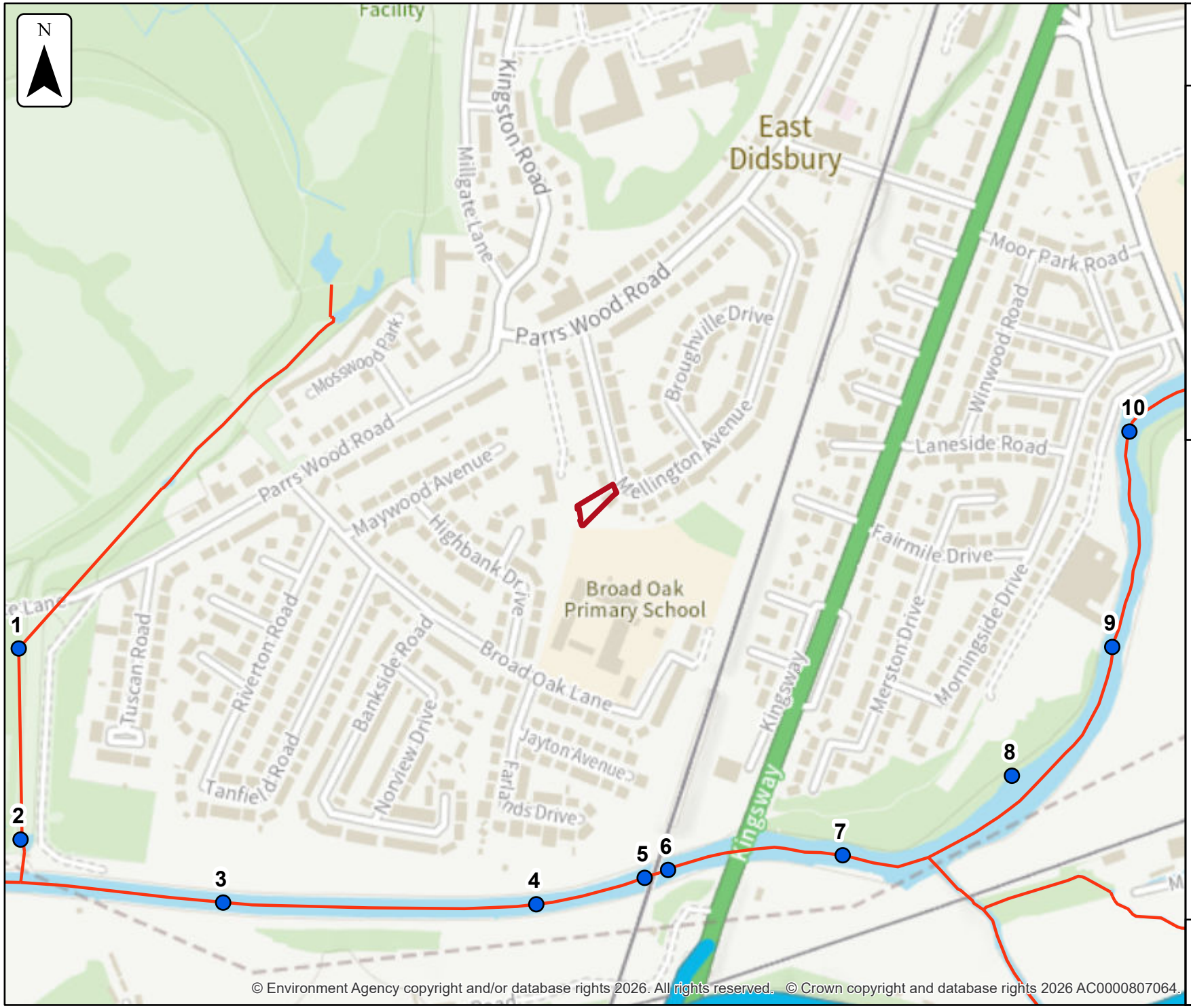
- Selected area
- Main river

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



Environment Agency

Defended modelled fluvial node locations

Location (easting/northing)
384986/389751

Scale
1:5,000

Created
2 Jul 2026

Model name
Upper Mersey 2017

- Selected area
- Modelled location
- Main river

0 50 100 150 200 250
metres

Modelled node locations data

Defended

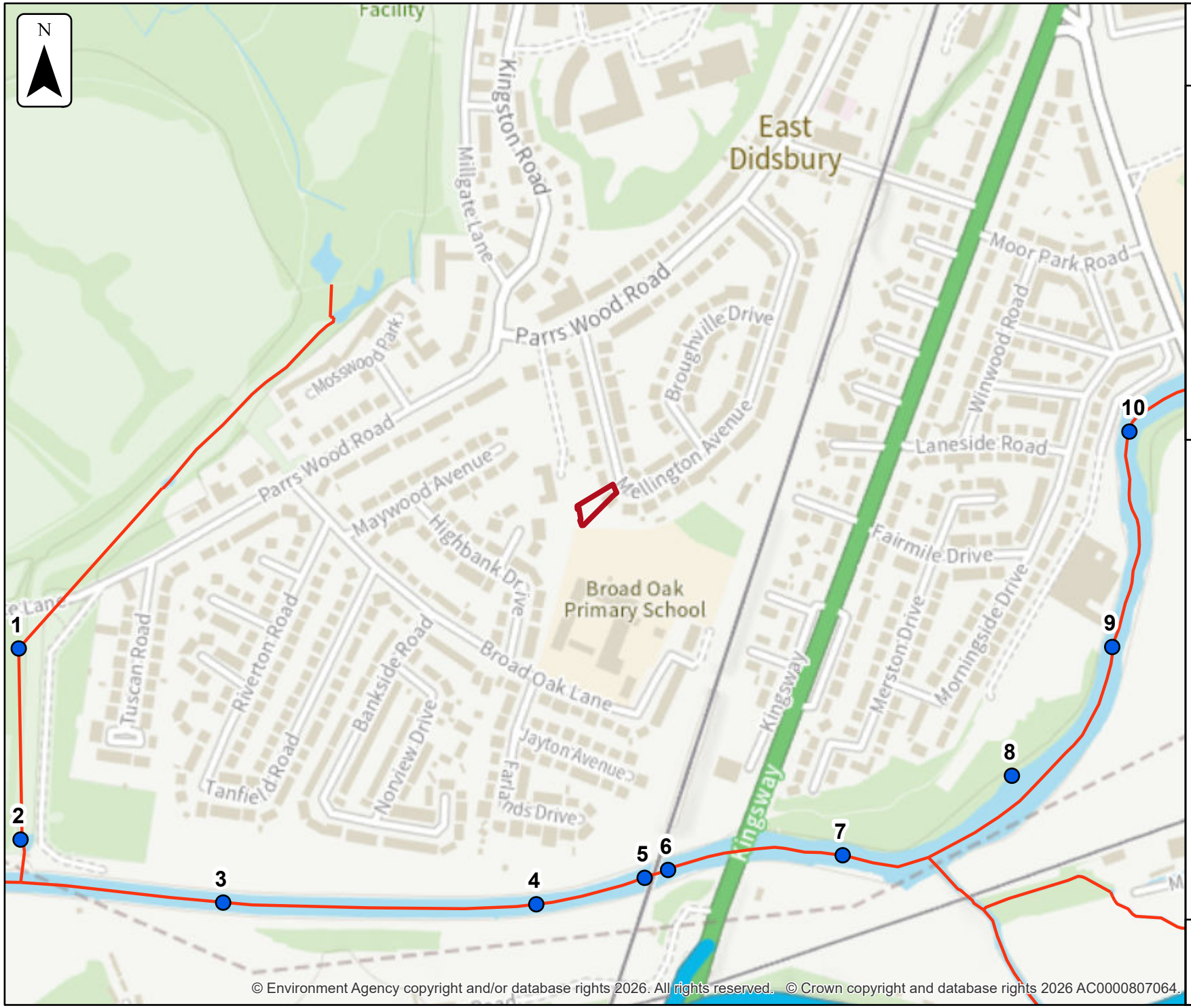
Label	Modelled location ID	Easting	Northing	50% AEP	20% AEP	10% AEP	5% AEP	4% AEP	3.33% AEP	2% AEP	1.33% AEP	1% AEP	0.5% AEP	0.1% AEP
				Level	Level	Level	Level	Level	Level	Level	Level	Level	Level	Level
1	1290645	384425	389610	25.39	27.43	27.79	28.15	28.36	28.49	28.66	29.34	29.42	29.49	29.92
2	1290586	384427	389424	25.44	27.40	27.86	28.20	28.31	28.46	28.68	29.35	29.43	29.50	29.92
3	1290572	384624	389363	31.54	32.04	32.18	32.49	32.58	32.64	32.81	32.90	32.96	33.13	33.53
4	1290830	384929	389361	31.75	32.25	32.42	32.73	32.82	32.89	33.06	33.17	33.24	33.38	33.94
5	1290644	385035	389387	31.85	32.36	32.54	32.85	32.94	33.01	33.19	33.29	33.37	33.52	34.23
6	1290733	385057	389394	31.88	32.42	32.63	32.97	33.07	33.14	33.34	33.45	33.54	33.69	34.51
7	1290672	385227	389409	32.0	32.54	32.76	33.09	33.20	33.27	33.47	33.60	33.69	33.88	35.0
8	1290659	385392	389486	32.17	32.75	33.0	33.34	33.45	33.53	33.75	33.86	33.97	34.14	35.17
9	1290729	385490	389612	32.21	32.75	32.99	33.33	33.44	33.53	33.74	33.86	33.97	34.13	35.15
10	1290547	385507	389821	32.40	32.94	33.19	33.54	33.64	33.69	33.82	33.91	34.0	34.16	35.29

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	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
				Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow
1	1290645	384425	389610	0.50	1.90	1.93	1.96	1.98	2.45	11.05	16.04	12.12	12.20	12.90
2	1290586	384427	389424	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
3	1290572	384624	389363	183.80	243.42	271.50	309.74	322.76	333.79	362.47	382.56	397.46	422.90	611.61
4	1290830	384929	389361	183.85	242.55	271.71	311.04	323.33	333.60	362.59	381.35	397.52	423.07	611.88
5	1290644	385035	389387	183.88	242.98	271.52	310.09	322.94	333.76	362.45	382.71	397.20	421.92	586.99
6	1290733	385057	389394	183.88	242.98	271.52	310.09	322.94	333.76	362.45	382.71	397.20	421.92	586.99
7	1290672	385227	389409	183.72	242.20	271.75	310.73	323.35	333.66	362.57	380.95	395.39	416.47	521.75
8	1290659	385392	389486	168.26	216.49	245.17	280.93	293.43	301.48	317.96	330.51	339.85	353.45	383.74
9	1290729	385490	389612	169.29	220.55	250.89	285.90	294.34	296.19	299.27	306.11	313.60	324.75	357.22
10	1290547	385507	389821	168.81	219.90	250.86	285.97	296.57	305.86	329.99	344.46	357.35	371.08	388.53

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.



© Environment Agency copyright and/or database rights 2026. All rights reserved. © Crown copyright and database rights 2026 AC0000807064.

Environment Agency

Defences removed modelled fluvial node locations

Location (easting/northing)
384986/389751

Scale
1:5,000

Created
2 Jul 2026

Model name
Upper Mersey 2017

- Selected area
- Modelled location
- Main river

0 50 100 150 200 250
metres

Modelled node locations data

Defences removed

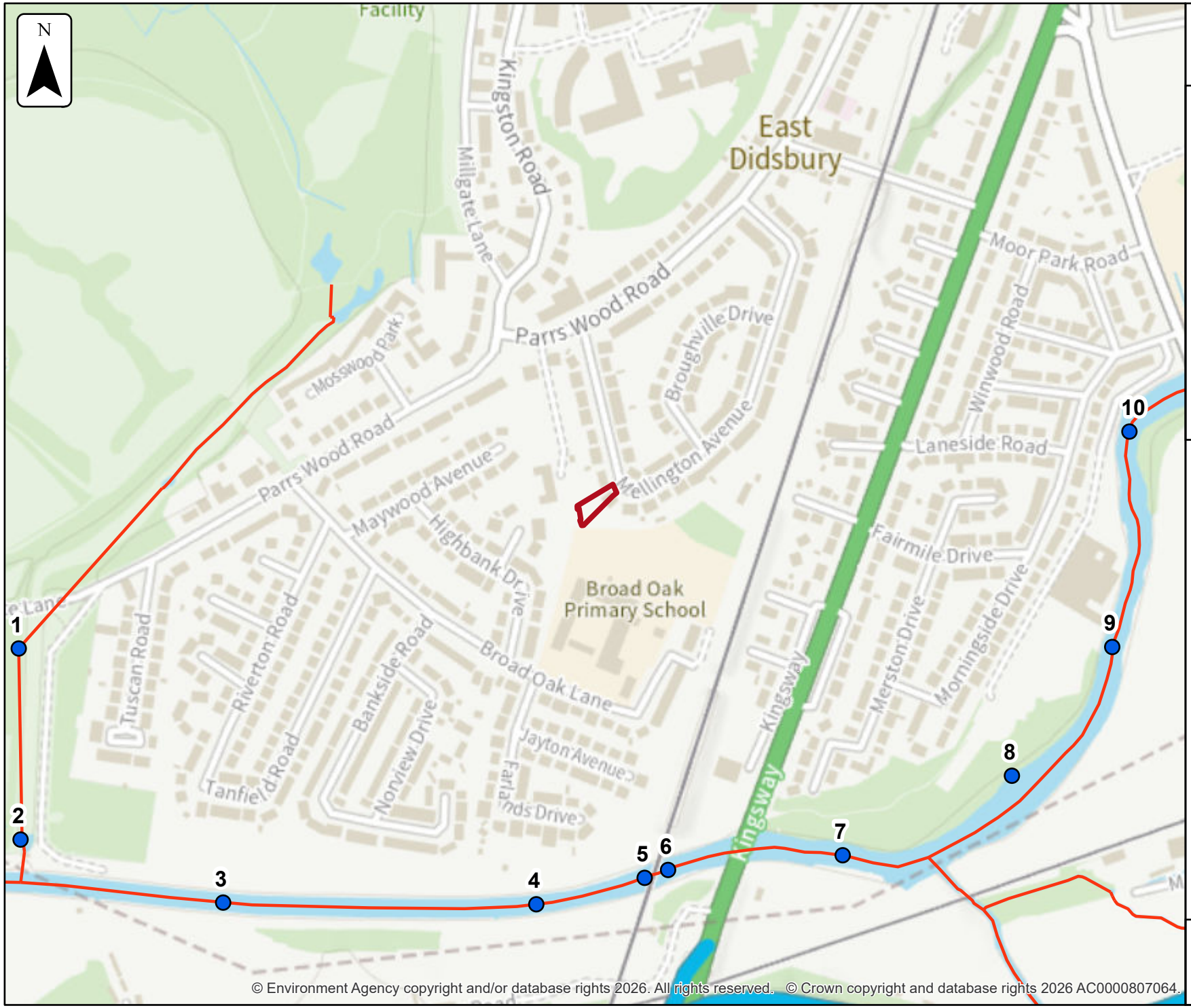
Label	Modelled location ID	Easting	Northing	50% AEP	20% AEP	10% AEP	5% AEP	4% AEP	3.33% AEP	2% AEP	1.33% AEP	1% AEP	0.5% AEP	0.1% AEP
				Level	Level	Level	Level	Level	Level	Level	Level	Level	Level	Level
1	1290645	384425	389610	26.74	26.81	27.0	27.29	27.38	27.46	27.65	27.81	27.92	28.23	29.40
2	1290586	384427	389424	26.77	26.84	27.05	27.33	27.41	27.48	27.67	27.82	27.93	28.23	29.40
3	1290572	384624	389363	31.30	31.61	31.75	31.84	31.87	31.89	31.96	32.03	32.06	32.16	32.78
4	1290830	384929	389361	31.54	31.84	31.99	32.10	32.13	32.16	32.25	32.32	32.37	32.50	33.08
5	1290644	385035	389387	31.66	31.99	32.17	32.29	32.32	32.36	32.46	32.54	32.60	32.74	33.35
6	1290733	385057	389394	31.70	32.05	32.27	32.43	32.47	32.52	32.66	32.77	32.85	33.06	33.93
7	1290672	385227	389409	31.84	32.21	32.44	32.62	32.67	32.72	32.87	33.0	33.09	33.32	34.63
8	1290659	385392	389486	32.04	32.46	32.73	32.92	32.98	33.05	33.22	33.36	33.46	33.75	34.86
9	1290729	385490	389612	32.10	32.49	32.74	32.93	32.99	33.05	33.22	33.36	33.46	33.76	34.86
10	1290547	385507	389821	32.30	32.71	32.99	33.19	33.26	33.32	33.51	33.64	33.71	33.86	35.04

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	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
				Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow
1	1290645	384425	389610	1.92	1.98	3.57	5.45	5.88	6.19	6.99	7.51	7.84	8.56	10.76
2	1290586	384427	389424	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
3	1290572	384624	389363	179.49	217.98	249.39	274.86	282.73	291.44	315.90	334.46	349.86	389.98	540.08
4	1290830	384929	389361	184.17	232.79	270.09	299.93	308.71	318.82	346.30	368.75	385.86	431.33	605.67
5	1290644	385035	389387	184.18	232.93	270.02	300.28	309.40	319.58	348.20	371.64	389.64	436.68	618.73
6	1290733	385057	389394	184.18	232.93	270.02	300.28	309.40	319.58	348.20	371.64	389.64	436.68	618.73
7	1290672	385227	389409	184.19	232.95	270.14	300.37	309.35	319.62	348.36	371.65	389.69	436.48	516.12
8	1290659	385392	389486	168.36	207.72	243.88	269.22	280.68	290.0	315.05	335.54	348.68	366.10	400.64
9	1290729	385490	389612	168.34	211.72	249.46	275.61	287.45	297.19	320.98	337.26	344.13	342.60	355.12
10	1290547	385507	389821	168.34	211.69	249.47	275.72	287.51	297.26	320.37	338.65	351.44	370.69	365.97

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.



© Environment Agency copyright and/or database rights 2026. All rights reserved. © Crown copyright and database rights 2026 AC0000807064.

Environment Agency

Defended climate change modelled fluvial node locations

Location (easting/northing)
384986/389751

Scale
1:5,000

Created
2 Jul 2026

Model name
Upper Mersey 2017

- Selected area
- Modelled location
- Main river

0 50 100 150 200 250
metres

Modelled node locations data

Defended climate change

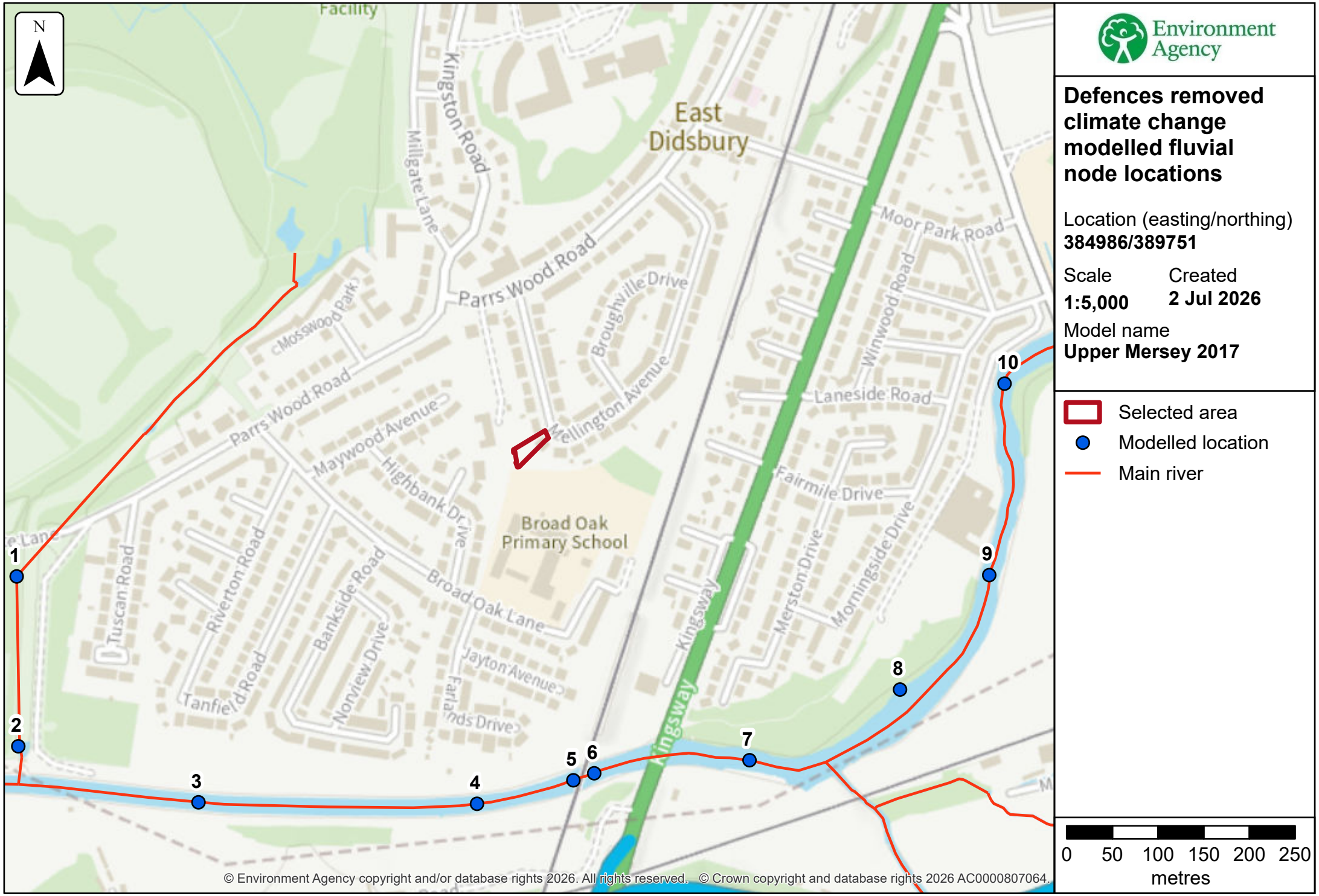
Label	Modelled location ID	Easting	Northing	1% AEP (+30%)	1% AEP (+35%)	1% AEP (+70%)	0.1% AEP (+30%)
				Level	Level	Level	Level
1	1290645	384425	389610	29.70	29.74	29.89	30.21
2	1290586	384427	389424	29.71	29.74	29.89	30.21
3	1290572	384624	389363	33.34	33.37	33.49	33.69
4	1290830	384929	389361	33.65	33.69	33.89	34.21
5	1290644	385035	389387	33.84	33.90	34.16	34.58
6	1290733	385057	389394	34.04	34.12	34.43	34.96
7	1290672	385227	389409	34.26	34.34	34.86	35.62
8	1290659	385392	389486	34.59	34.68	35.05	35.70
9	1290729	385490	389612	34.58	34.68	35.03	35.70
10	1290547	385507	389821	34.68	34.81	35.17	35.85

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	1290645	384425	389610	12.30	12.32	12.62	13.40
2	1290586	384427	389424	0.50	0.50	0.50	0.50
3	1290572	384624	389363	488.72	508.09	589.21	738.06
4	1290830	384929	389361	488.38	508.38	589.73	744.02
5	1290644	385035	389387	478.45	495.11	566.0	708.62
6	1290733	385057	389394	478.45	495.11	566.0	708.62
7	1290672	385227	389409	467.41	484.91	520.73	543.09
8	1290659	385392	389486	366.56	368.35	378.89	441.90
9	1290729	385490	389612	333.47	334.26	352.79	385.50
10	1290547	385507	389821	381.18	382.21	383.09	407.06

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.



© Environment Agency copyright and/or database rights 2026. All rights reserved. © Crown copyright and database rights 2026 AC0000807064.

Environment Agency

Defences removed climate change modelled fluvial node locations

Location (easting/northing)
384986/389751

Scale
1:5,000

Created
2 Jul 2026

Model name
Upper Mersey 2017

- Selected area
- Modelled location
- Main river

0 50 100 150 200 250
metres

Modelled node locations data

Defences removed climate change

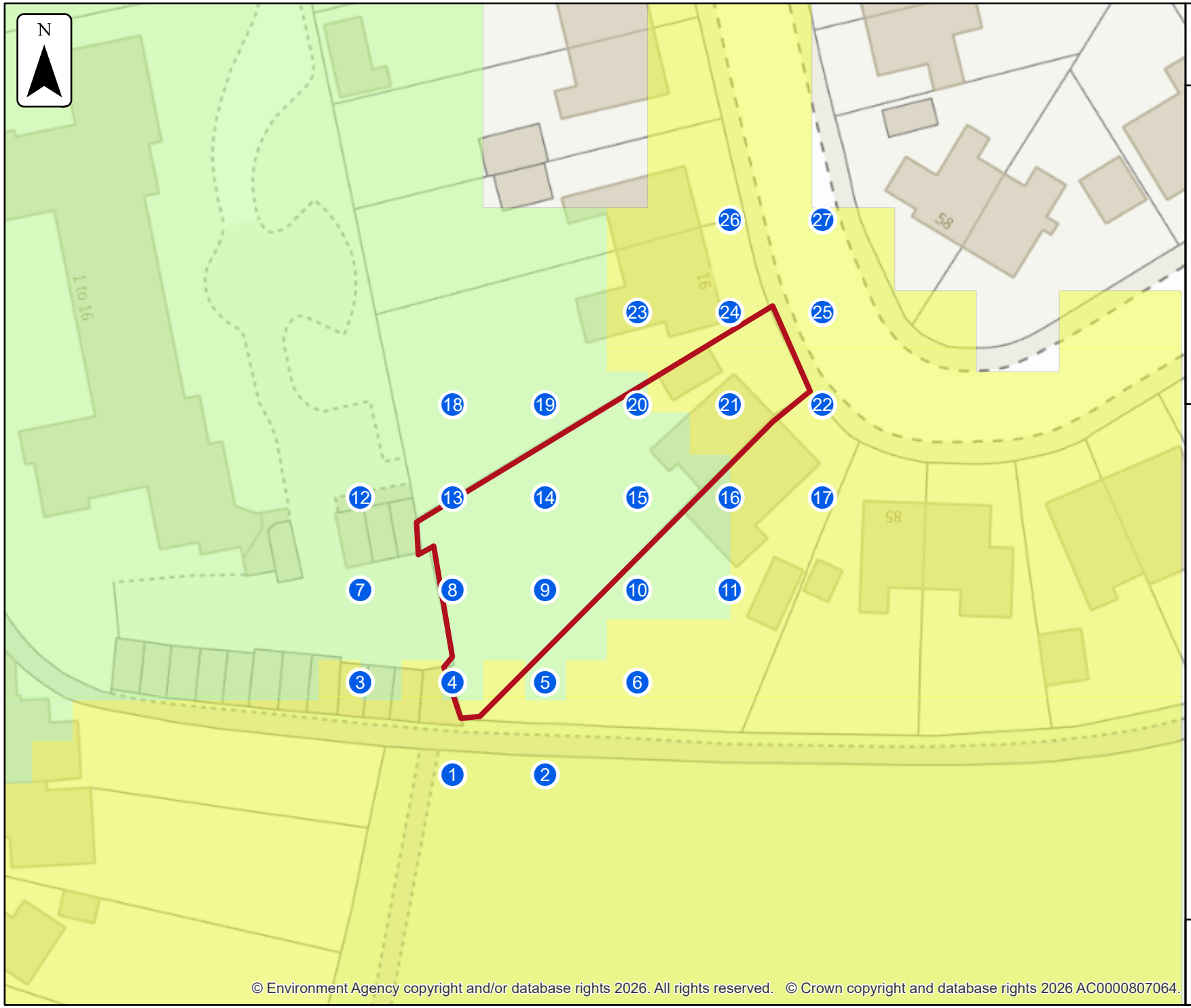
Label	Modelled location ID	Easting	Northing	1% AEP (+30%)	1% AEP (+35%)	1% AEP (+70%)	0.1% AEP (+30%)
				Level	Level	Level	Level
1	1290645	384425	389610	28.72	28.82	29.32	29.89
2	1290586	384427	389424	28.72	28.82	29.32	29.90
3	1290572	384624	389363	32.33	32.39	32.71	33.30
4	1290830	384929	389361	32.67	32.73	33.02	33.52
5	1290644	385035	389387	32.93	32.98	33.28	33.75
6	1290733	385057	389394	33.38	33.46	33.85	34.50
7	1290672	385227	389409	33.73	33.86	34.50	35.42
8	1290659	385392	389486	34.16	34.27	34.76	35.52
9	1290729	385490	389612	34.17	34.28	34.76	35.52
10	1290547	385507	389821	34.30	34.42	34.93	35.71

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	1290645	384425	389610	9.38	9.54	10.39	12.41
2	1290586	384427	389424	0.50	0.50	0.50	0.50
3	1290572	384624	389363	443.71	456.89	525.88	644.09
4	1290830	384929	389361	494.96	510.96	589.49	729.39
5	1290644	385035	389387	504.58	521.49	602.82	753.99
6	1290733	385057	389394	504.58	521.49	602.82	753.99
7	1290672	385227	389409	489.22	495.14	515.88	530.67
8	1290659	385392	389486	382.06	382.41	394.85	434.16
9	1290729	385490	389612	342.67	341.82	351.39	360.73
10	1290547	385507	389821	370.67	372.84	363.39	373.53

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.



Environment Agency

Defended modelled fluvial extent and height

Location (easting/northing)
384986/389751

Scale
1:500

Created
2 Jul 2026

Model name
Upper Mersey 2017

Selected area

Main river

Modelled 2D grid
Height in mAOD

- 33 - 33.125
- 33.125 - 33.25
- 33.25 - 33.375
- 33.375 - 33.5
- 33.5 - 33.625
- 33.625 - 33.75
- 33.75 - 33.875
- 33.875 - 34.0
- 34.0 - 34.125

This map shows the 0.1% AEP height data

0 5 10 15 20
metres

© Environment Agency copyright and/or database rights 2026. All rights reserved. © Crown copyright and database rights 2026 AC0000807064.

Sample point data

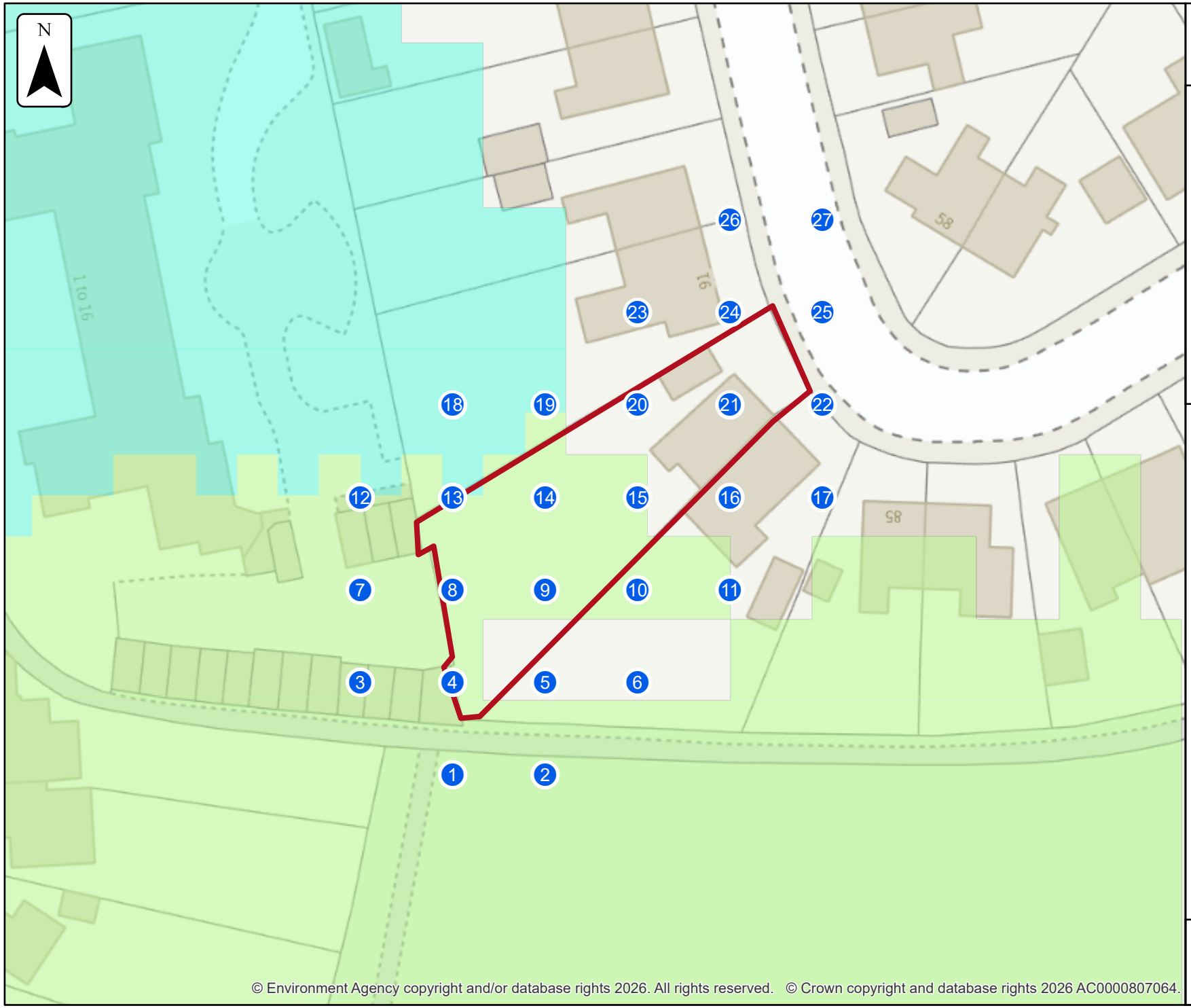
Defended

Label	Easting	Northing	0.1% AEP	0.1% AEP
			Height	Depth
1	384972	389724	33.67	0.31
2	384981	389724	33.67	0.29
3	384963	389733	33.63	0.27
4	384972	389733	33.62	0.17
5	384981	389733	33.62	0.03
6	384990	389733	33.64	0.01
7	384963	389742	33.61	0.32
8	384972	389742	33.60	0.35
9	384981	389742	33.60	0.30
10	384990	389742	33.61	0.34
11	384999	389742	33.62	0.30
12	384963	389751	33.60	0.24

Label	Easting	Northing	0.1% AEP	0.1% AEP
			Height	Depth
13	384972	389751	33.60	0.35
14	384981	389751	33.60	0.29
15	384990	389751	33.60	0.20
16	384999	389751	33.62	0.12
17	385008	389751	33.71	0.15
18	384972	389760	33.59	0.58
19	384981	389760	33.60	0.35
20	384990	389760	33.62	0.05
21	384999	389760	33.64	0.02
22	385008	389760	33.69	0.09
23	384990	389769	33.64	0.05
24	384999	389769	33.67	0.05

Label	Easting	Northing	0.1% AEP	0.1% AEP
			Height	Depth
25	385008	389769	33.68	0.08
26	384999	389778	33.67	0.01
27	385008	389778	33.68	0.11
Max value in selected area:			33.68	0.43

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.



Environment Agency

Defences removed modelled fluvial extent and height

Location (easting/northing)
384986/389751

Scale
1:500

Created
2 Jul 2026

Model name
Upper Mersey 2017

Selected area

Main river

Modelled 2D grid
Height in mAOD

- 33 - 33.125
- 33.125 - 33.25
- 33.25 - 33.375
- 33.375 - 33.5
- 33.5 - 33.625
- 33.625 - 33.75
- 33.75 - 33.875
- 33.875 - 34.0
- 34.0 - 34.125

This map shows the 0.1% AEP height data

0 5 10 15 20
metres

© Environment Agency copyright and/or database rights 2026. All rights reserved. © Crown copyright and database rights 2026 AC0000807064.

Sample point data

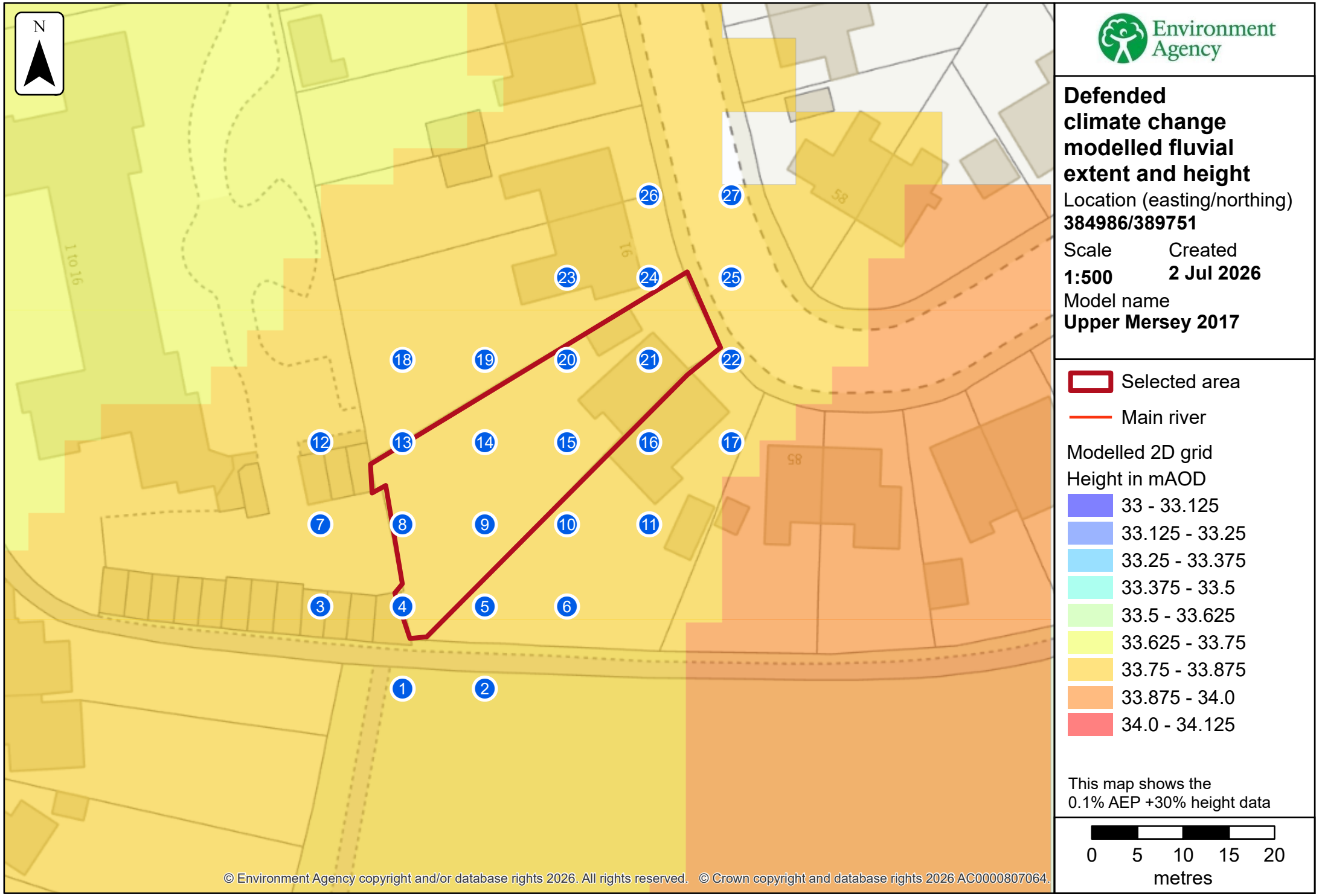
Defences removed

Label	Easting	Northing	0.1% AEP	0.1% AEP
			Height	Depth
1	384972	389724	33.55	0.20
2	384981	389724	33.55	0.17
3	384963	389733	33.52	0.16
4	384972	389733	33.52	0.09
5	384981	389733	NoData	NoData
6	384990	389733	NoData	NoData
7	384963	389742	33.51	0.22
8	384972	389742	33.50	0.25
9	384981	389742	33.50	0.20
10	384990	389742	33.50	0.23
11	384999	389742	33.52	0.20
12	384963	389751	33.50	0.15

Label	Easting	Northing	0.1% AEP	0.1% AEP
			Height	Depth
13	384972	389751	33.50	0.25
14	384981	389751	33.50	0.19
15	384990	389751	33.50	0.10
16	384999	389751	NoData	NoData
17	385008	389751	NoData	NoData
18	384972	389760	33.50	0.49
19	384981	389760	33.50	0.26
20	384990	389760	NoData	NoData
21	384999	389760	NoData	NoData
22	385008	389760	NoData	NoData
23	384990	389769	NoData	NoData
24	384999	389769	NoData	NoData

Label	Easting	Northing	0.1% AEP	0.1% AEP
			Height	Depth
25	385008	389769	NoData	NoData
26	384999	389778	NoData	NoData
27	385008	389778	NoData	NoData
Max value in selected area:			33.52	0.34

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.



Environment Agency

Defended climate change modelled fluvial extent and height

Location (easting/northing)
384986/389751

Scale
1:500

Created
2 Jul 2026

Model name
Upper Mersey 2017

Selected area

Main river

Modelled 2D grid
Height in mAOD

- 33 - 33.125
- 33.125 - 33.25
- 33.25 - 33.375
- 33.375 - 33.5
- 33.5 - 33.625
- 33.625 - 33.75
- 33.75 - 33.875
- 33.875 - 34.0
- 34.0 - 34.125

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

0 5 10 15 20
metres

© Environment Agency copyright and/or database rights 2026. All rights reserved. © Crown copyright and database rights 2026 AC0000807064.

Sample point data

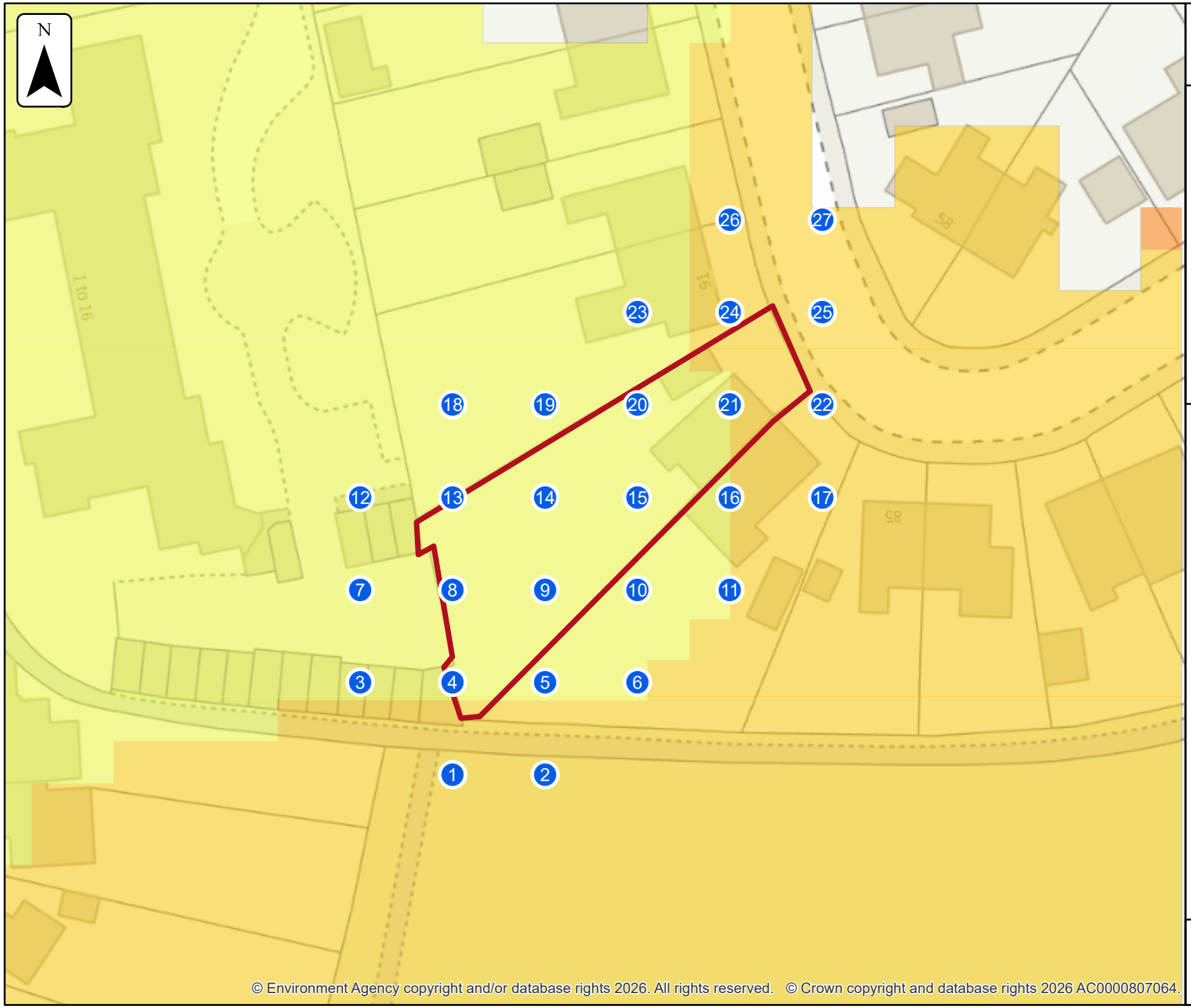
Defended climate change

Label	Easting	Northing	1% AEP (+35%)	1% AEP (+70%)	0.1% AEP (+30%)	1% AEP (+35%)	1% AEP (+70%)	0.1% AEP (+30%)
			Height	Height	Height	Depth	Depth	Depth
1	384972	389724	33.42	33.62	33.84	0.07	0.27	0.49
2	384981	389724	NoData	33.63	33.85	NoData	0.24	0.47
3	384963	389733	33.40	33.58	33.80	0.04	0.23	0.45
4	384972	389733	NoData	33.58	33.80	NoData	0.14	0.32
5	384981	389733	NoData	33.58	33.79	NoData	0.00	0.17
6	384990	389733	NoData	33.62	33.81	NoData	0.00	0.17
7	384963	389742	33.38	33.56	33.78	0.09	0.28	0.49
8	384972	389742	33.37	33.56	33.78	0.11	0.31	0.53
9	384981	389742	33.37	33.56	33.78	0.09	0.26	0.48
10	384990	389742	33.37	33.57	33.79	0.11	0.30	0.52
11	384999	389742	33.37	33.59	33.81	0.10	0.26	0.48
12	384963	389751	33.37	33.56	33.77	0.02	0.20	0.41

Label	Easting	Northing	1% AEP (+35%)	1% AEP (+70%)	0.1% AEP (+30%)	1% AEP (+35%)	1% AEP (+70%)	0.1% AEP (+30%)
			Height	Height	Height	Depth	Depth	Depth
13	384972	389751	33.37	33.56	33.77	0.12	0.31	0.52
14	384981	389751	33.37	33.56	33.77	0.06	0.25	0.46
15	384990	389751	NoData	33.56	33.78	NoData	0.15	0.38
16	384999	389751	NoData	NoData	33.79	NoData	NoData	0.29
17	385008	389751	NoData	33.66	33.87	NoData	0.10	0.31
18	384972	389760	33.37	33.55	33.76	0.36	0.54	0.74
19	384981	389760	33.37	33.55	33.76	0.14	0.31	0.51
20	384990	389760	NoData	NoData	33.77	NoData	NoData	0.20
21	384999	389760	NoData	NoData	33.79	NoData	NoData	0.17
22	385008	389760	NoData	33.64	33.86	NoData	0.05	0.26
23	384990	389769	NoData	NoData	33.77	NoData	NoData	0.18
24	384999	389769	NoData	NoData	33.83	NoData	NoData	0.20

Label	Easting	Northing	1% AEP (+35%)	1% AEP (+70%)	0.1% AEP (+30%)	1% AEP (+35%)	1% AEP (+70%)	0.1% AEP (+30%)
			Height	Height	Height	Depth	Depth	Depth
25	385008	389769	NoData	33.63	33.84	NoData	0.03	0.24
26	384999	389778	NoData	NoData	33.81	NoData	NoData	0.14
27	385008	389778	NoData	NoData	33.83	NoData	NoData	0.26
Max value in selected area:			33.37	33.64	33.85	0.21	0.39	0.60

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.



Environment Agency

Defences removed climate change modelled fluvial extent and height

Location (easting/northing)
384986/389751

Scale
1:500

Created
2 Jul 2026

Model name
Upper Mersey 2017

Selected area

Main river

Modelled 2D grid
Height in mAOD

- 33 - 33.125
- 33.125 - 33.25
- 33.25 - 33.375
- 33.375 - 33.5
- 33.5 - 33.625
- 33.625 - 33.75
- 33.75 - 33.875
- 33.875 - 34.0
- 34.0 - 34.125

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

0 5 10 15 20
metres

© Environment Agency copyright and/or database rights 2026. All rights reserved. © Crown copyright and database rights 2026 AC0000807064.

Sample point data

Defences removed climate change

Label	Easting	Northing	1% AEP (+70%)	0.1% AEP (+30%)	1% AEP (+70%)	0.1% AEP (+30%)
			Height	Height	Depth	Depth
1	384972	389724	33.51	33.78	0.15	0.43
2	384981	389724	33.51	33.79	0.13	0.41
3	384963	389733	33.48	33.74	0.13	0.38
4	384972	389733	33.48	33.74	0.07	0.26
5	384981	389733	NoData	33.73	NoData	0.11
6	384990	389733	NoData	33.75	NoData	0.11
7	384963	389742	33.47	33.72	0.19	0.43
8	384972	389742	33.47	33.72	0.21	0.46
9	384981	389742	33.47	33.72	0.17	0.42
10	384990	389742	33.47	33.72	0.20	0.45
11	384999	389742	33.47	33.74	0.18	0.41
12	384963	389751	33.47	33.71	0.12	0.35

Label	Easting	Northing	1% AEP (+70%)	0.1% AEP (+30%)	1% AEP (+70%)	0.1% AEP (+30%)
			Height	Height	Depth	Depth
13	384972	389751	33.47	33.71	0.22	0.46
14	384981	389751	33.47	33.71	0.16	0.40
15	384990	389751	NoData	33.72	NoData	0.31
16	384999	389751	NoData	33.73	NoData	0.23
17	385008	389751	NoData	33.81	NoData	0.25
18	384972	389760	33.47	33.70	0.46	0.69
19	384981	389760	33.47	33.70	0.22	0.46
20	384990	389760	NoData	33.71	NoData	0.14
21	384999	389760	NoData	33.73	NoData	0.11
22	385008	389760	NoData	33.80	NoData	0.20
23	384990	389769	NoData	33.71	NoData	0.12
24	384999	389769	NoData	33.77	NoData	0.15

Label	Easting	Northing	1% AEP (+70%)	0.1% AEP (+30%)	1% AEP (+70%)	0.1% AEP (+30%)
			Height	Height	Depth	Depth
25	385008	389769	NoData	33.79	NoData	0.18
26	384999	389778	NoData	33.76	NoData	0.09
27	385008	389778	NoData	33.78	NoData	0.21
Max value in selected area:			33.48	33.79	0.31	0.54

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 canals, groundwater 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