

Environment
Agency

Customer reference number: GEM7XXFMW6CG

East Didsbury

463
465

A34 Kingsway

Gawsworth Avenue

Avalon Drive

Cranston Drive

Winwood Road

Glenmere Road

Denholm Road

Wilmslow Road

Mornington Drive

Greylands Road

Laneside Road

Selsey Drive

Fairmile Drive

Oakway

East Didsbury

Scale 1:2,500

0 25 50 75 100 metres

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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)
- 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

Information that's unavailable

This document **does not** contain:

- historic flooding

We do not have historic flooding data for this location.

Please note that:

- flooding may have occurred that we do not have records for
- flooding can come from a range of different sources
- we can only supply flood risk data relating to flooding from rivers or the sea

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

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: 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

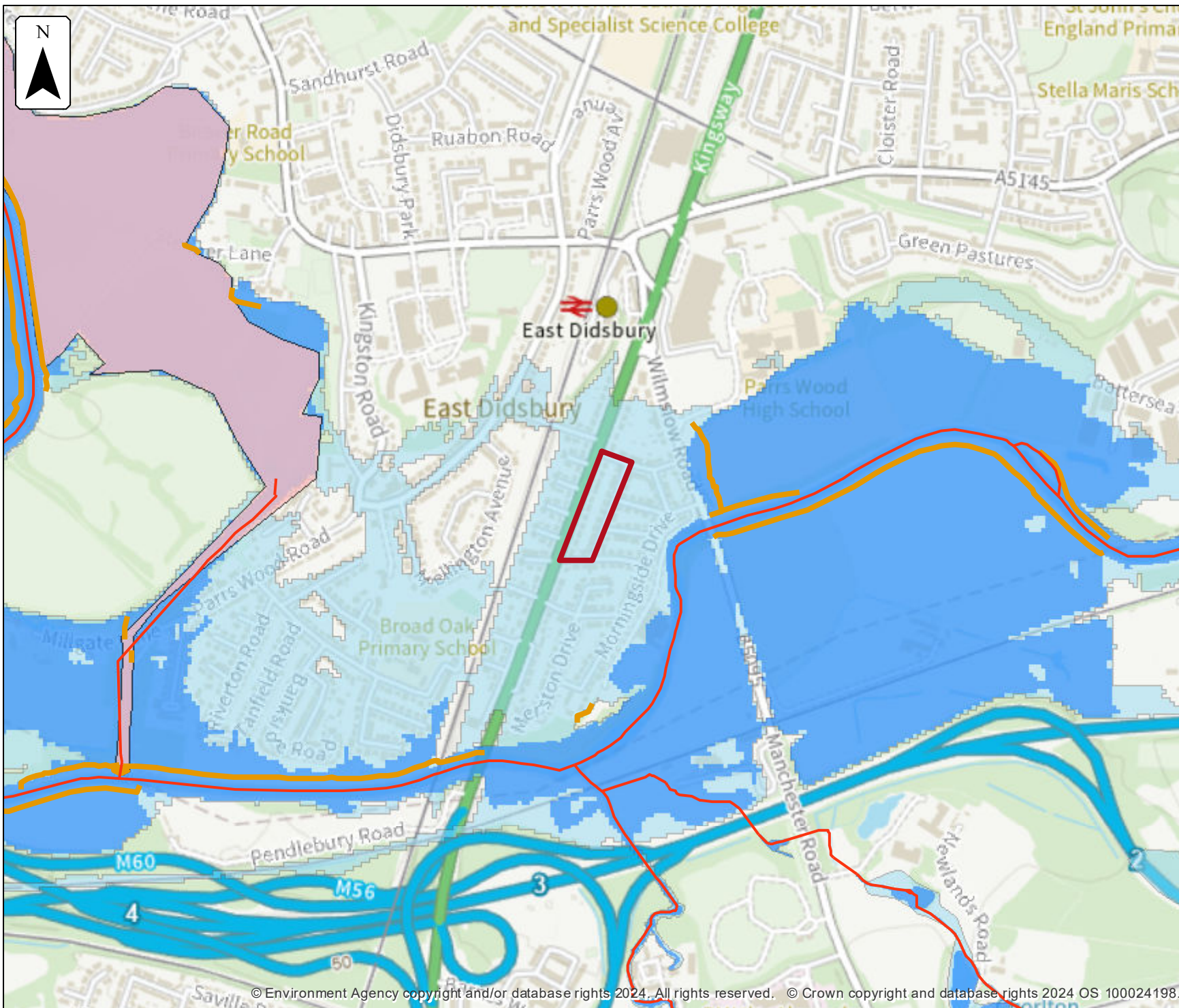
Flood zone 2 shows the area at risk of flooding for an undefended flood event with:

- 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

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.



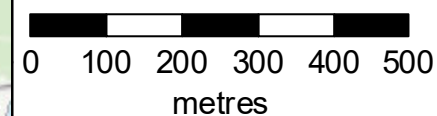
Flood map for planning

Location (easting/northing)
385353/389906

Scale
1:10,000

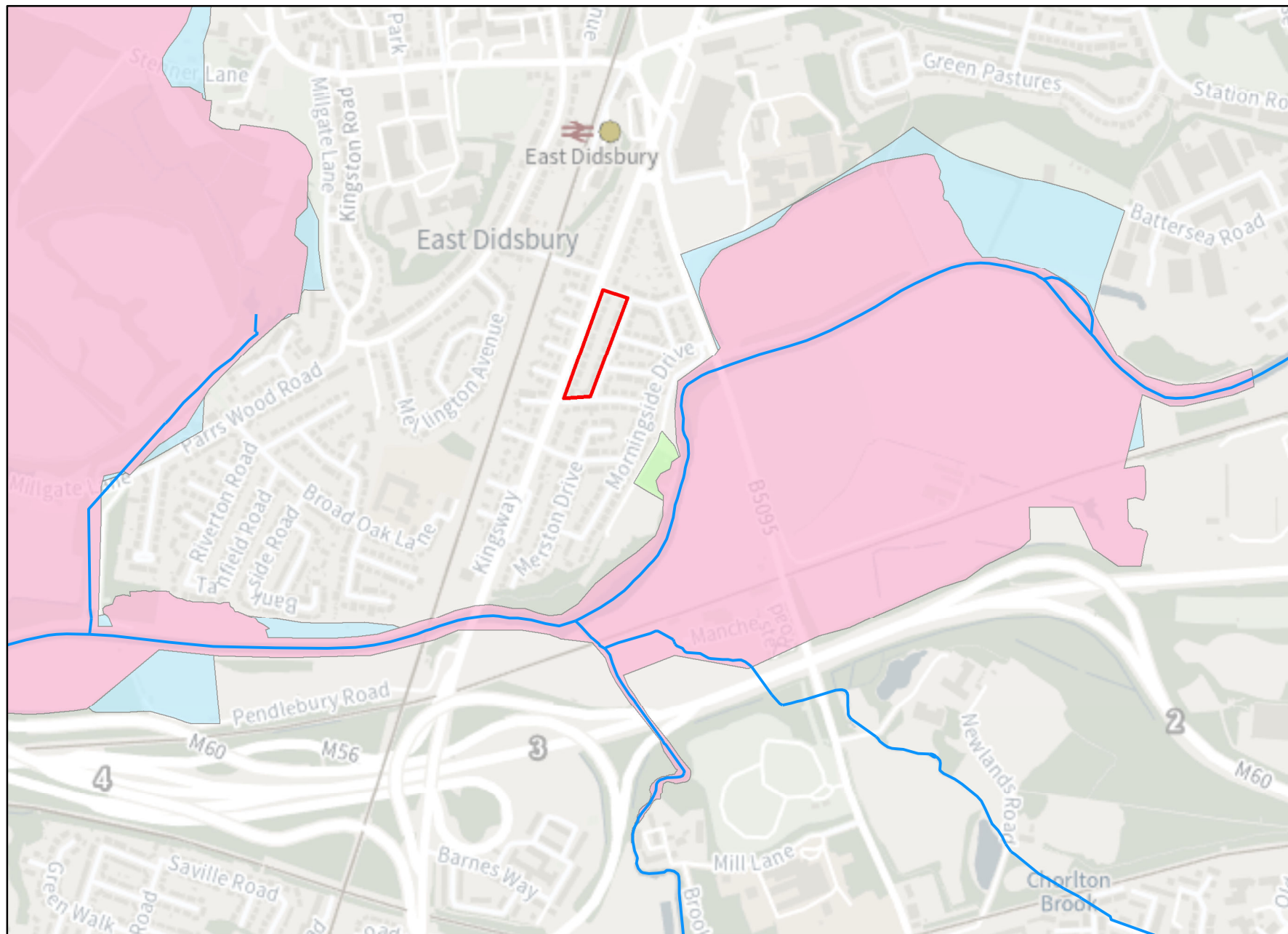
Created
1 May 2024

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



Recorded Flood Outline Map Centred on Winwood Road, Manchester, M20 5PE.

Created 24/05/2024 [GMMC358267SW]



1:10,001



Legend

 Site Location

 Main Rivers

Recorded Flood Outlines

Start Date

 01/01/1964

 16/03/2019

 20/01/2021

Recorded Flood Outlines

Flood Event Code	Name	Start Date	End Date	Source of Flooding	Cause of Flooding
19102	MERS	01/01/1964	02/01/1964	Unknown	Unknown
69497	Waterside Hotel	16/03/2019	16/03/2019	Main River	Channel capacity exceeded (no raised defences)
87092	Didsbury	20/01/2021	20/01/2021	Main River	Unknown

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



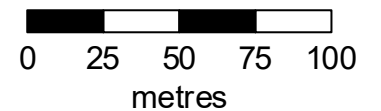
Flood defences

Location (easting/northing)
385353/389906

Scale
1:2,500

Created
1 May 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	120923	Wall			33.81	33.95	
2	112017	Engineered High Ground	50	Fair	34.99	32.81	
3	37538	Embankment	50	Fair	35.82	35.63	
4	37537	Wall	50	Fair	35.64	35.73	
5	59337	Embankment	50	Good	33.28	33.14	
6	112016	Embankment	50		34.91	35.03	34.82

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

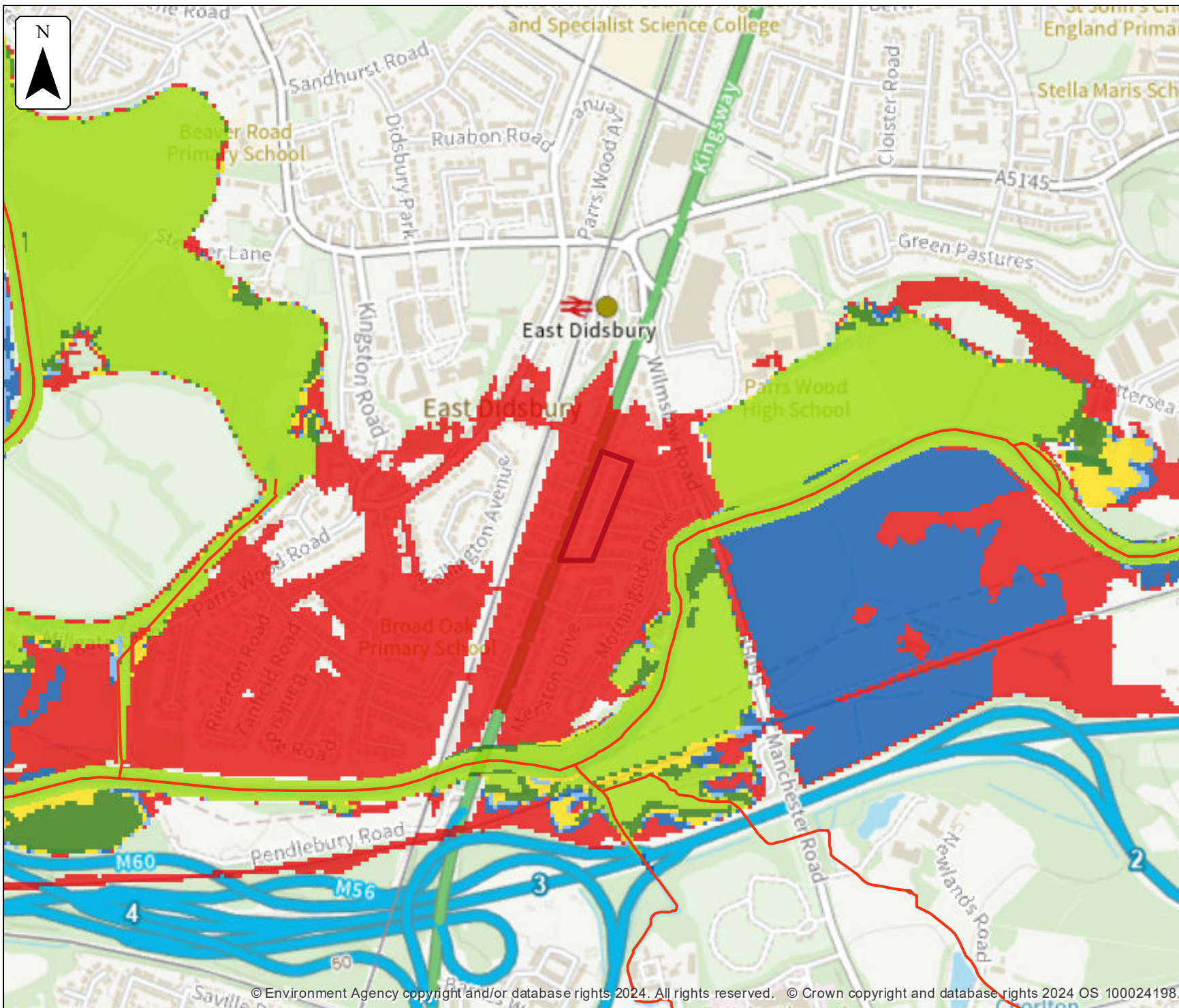
The climate change data included in the models may not include the latest [flood risk assessment climate change allowances](#). Where the new allowances are not available you will need to consider this data and factor in the new allowances to demonstrate the development will be safe from flooding.

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



Defended modelled fluvial extent

Location (easting/northing)
385353/389906

Scale Created
1:10,000 1 May 2024

Model name
Upper Mersey 2017

Selected area

Main river

Modelled flood extent

5% AEP

2% AEP

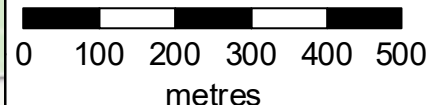
1.33% AEP

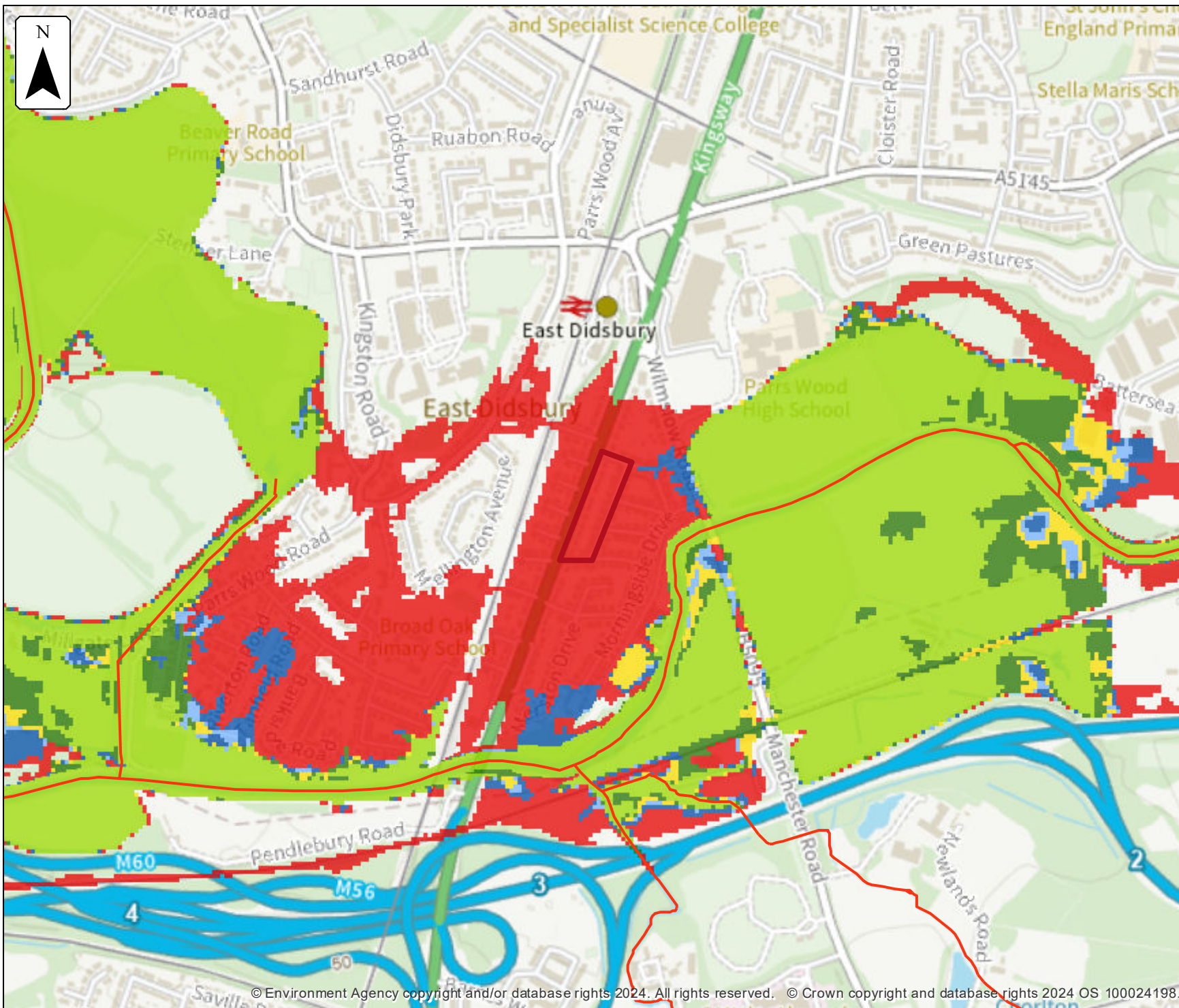
1% AEP

0.5% AEP

0.1% AEP

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





Defences removed modelled fluvial extent

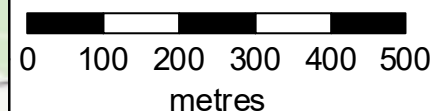
Location (easting/northing)
385353/389906

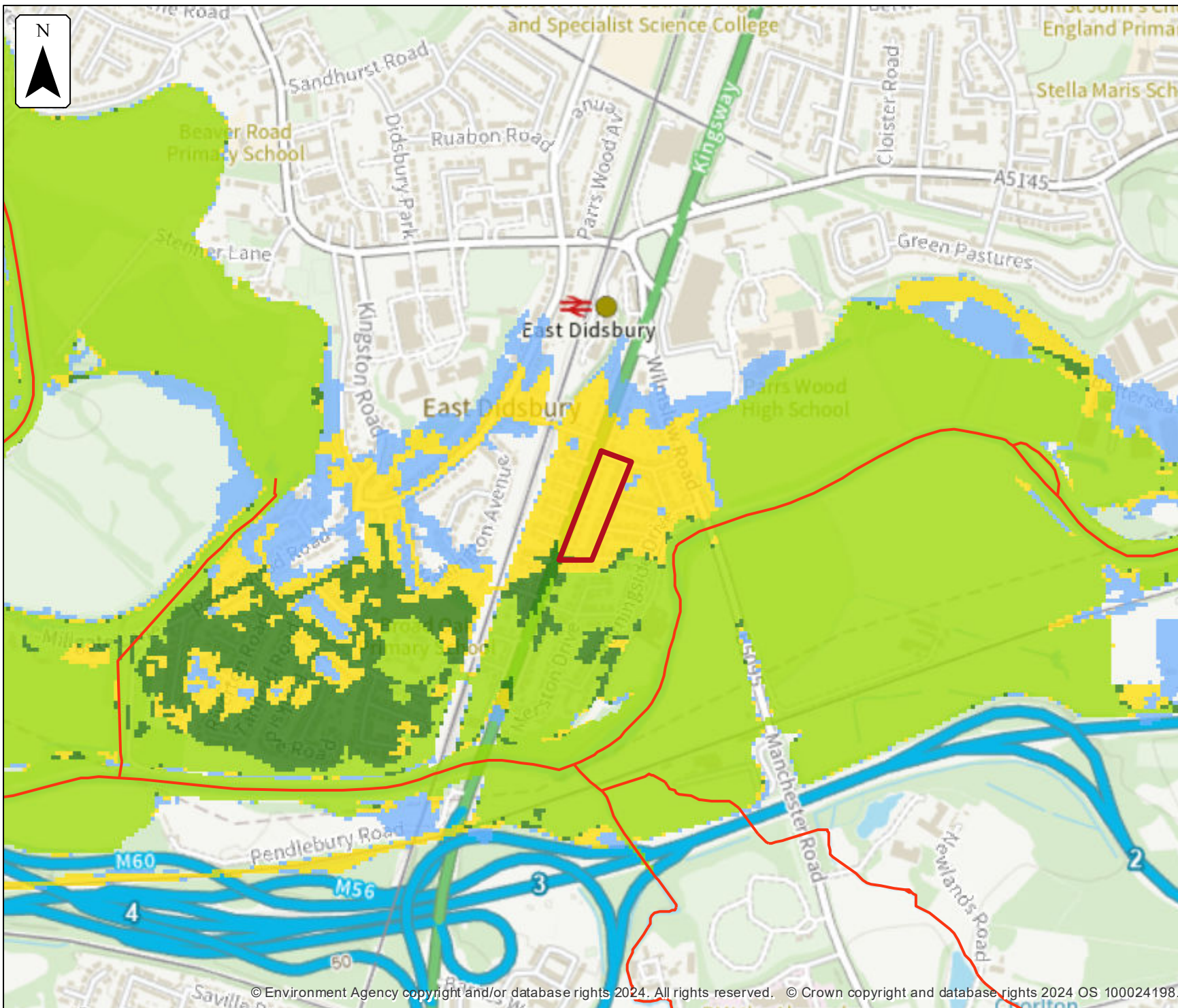
Scale Created
1:10,000 1 May 2024

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





Defended climate change modelled fluvial extent

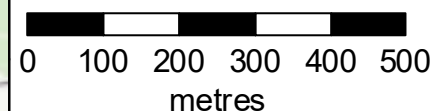
Location (easting/northing)
385353/389906

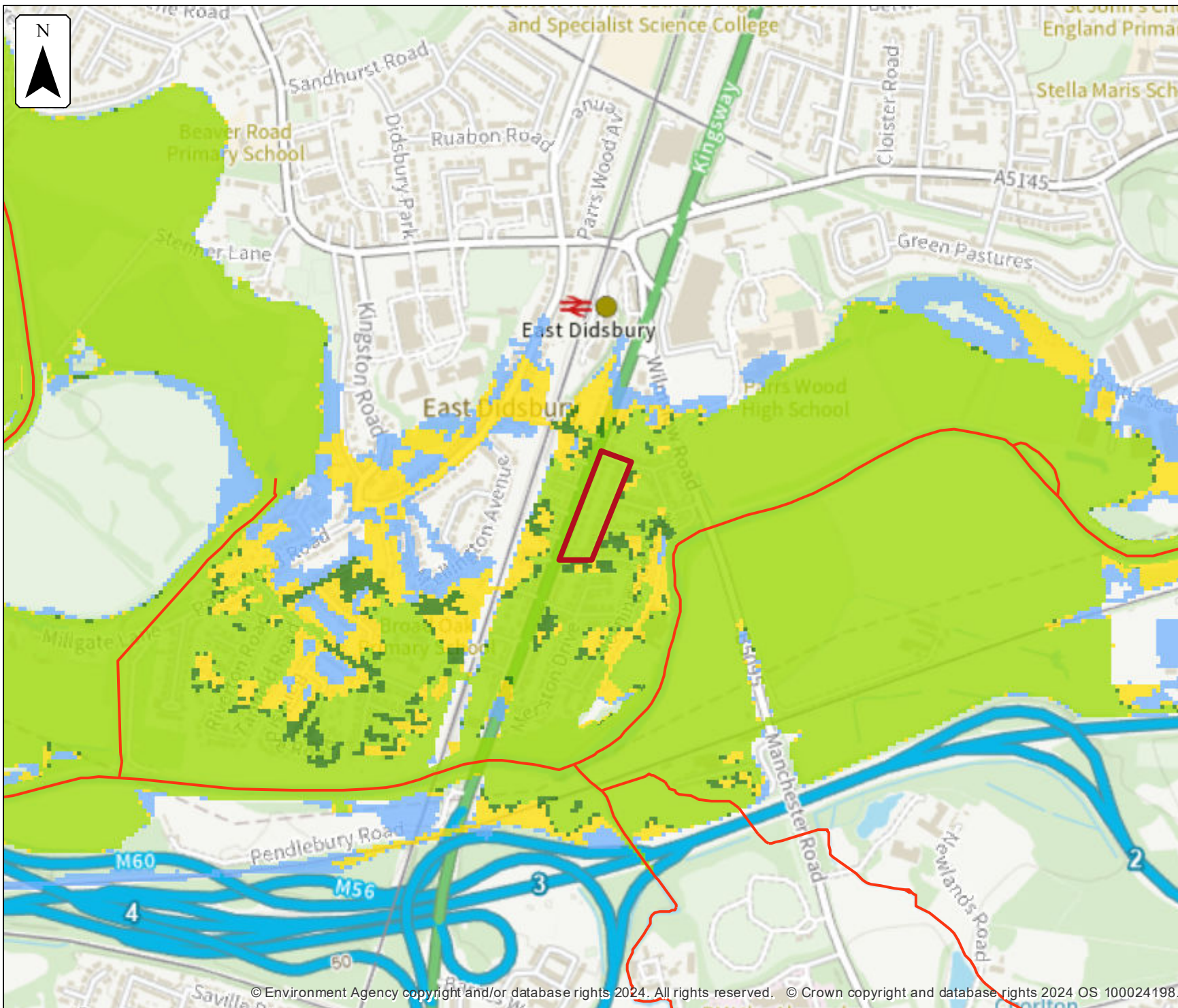
Scale Created
1:10,000 1 May 2024

Model name
Upper Mersey 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

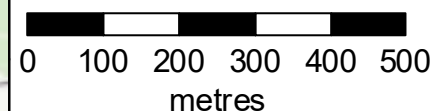
Location (easting/northing)
385353/389906

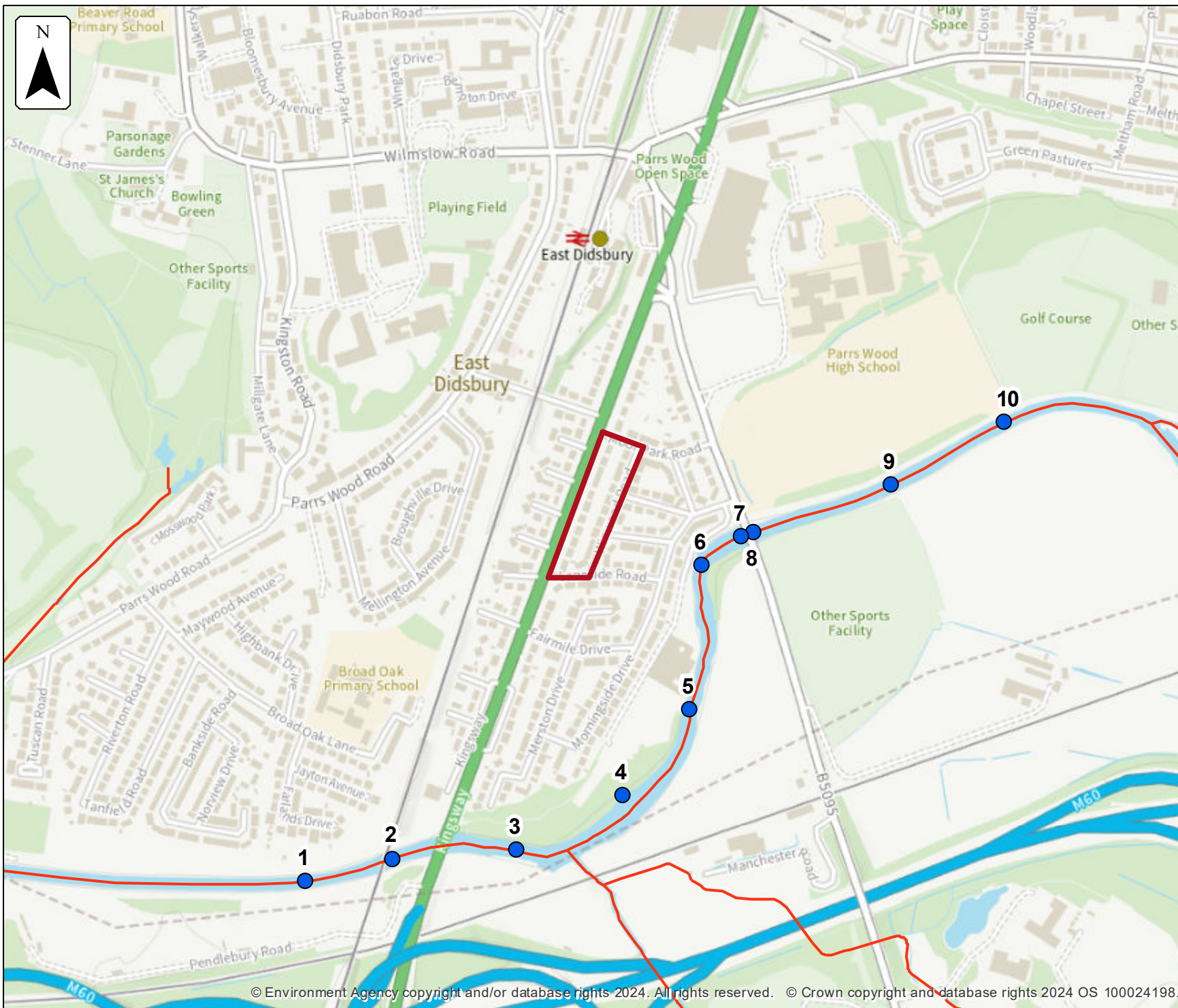
Scale Created
1:10,000 1 May 2024

Model name
Upper Mersey 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





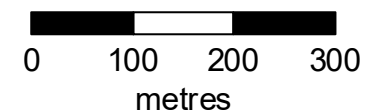
Defended modelled fluvial node locations

Location (easting/northing)
385353/389906

Scale Created
1:7,500 1 May 2024

Model name
Upper Mersey 2017

-  Selected area
-  Modelled location
-  Main river



Modelled node locations data

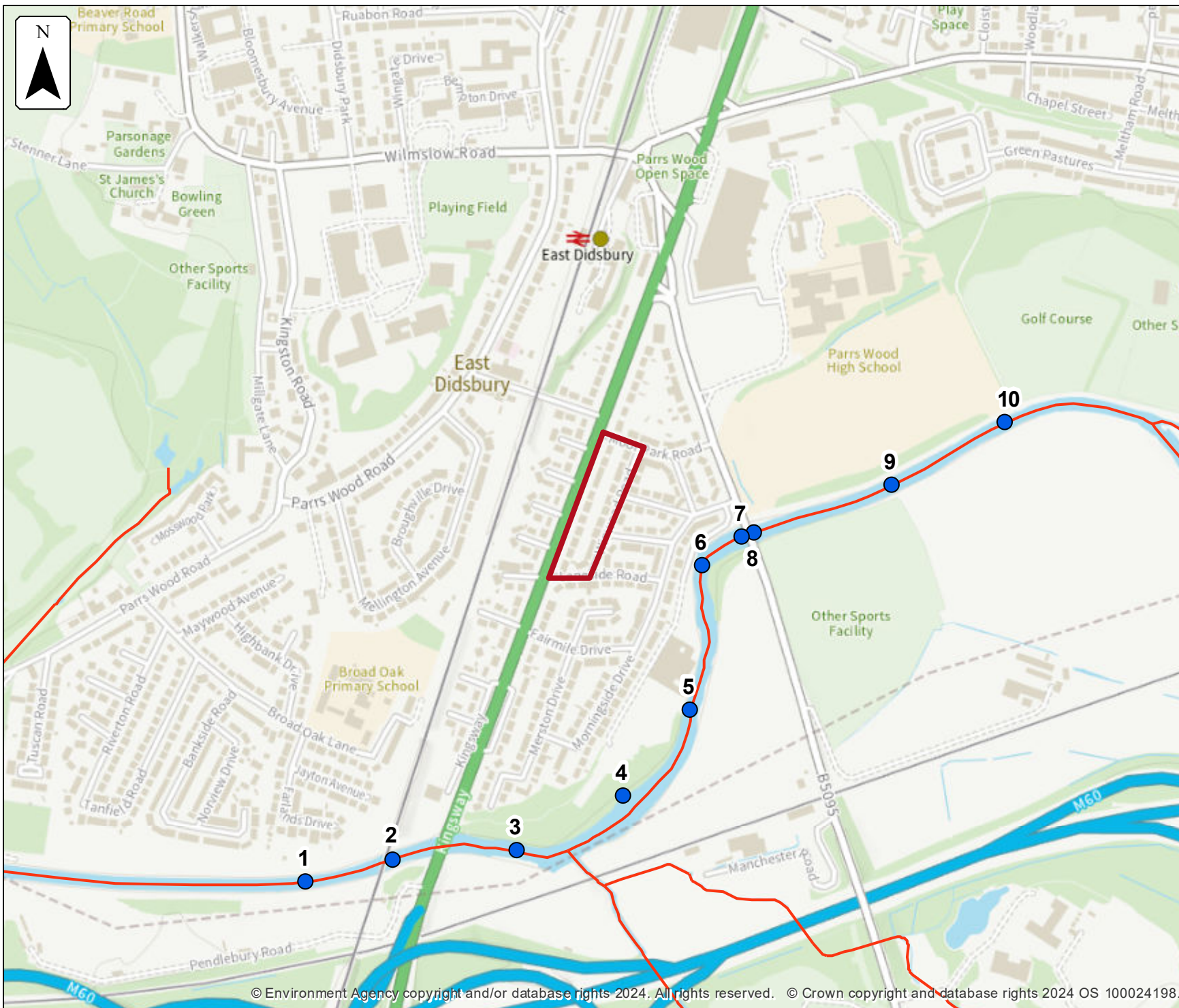
Defended

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	1290830	384929	389361	32.73	311.04	33.06	362.59	33.17	381.35	33.24	397.52	33.38	423.07	33.94	611.88
2	1290733	385057	389394	32.97	310.09	33.34	362.45	33.45	382.71	33.54	397.20	33.69	421.92	34.51	586.99
3	1290527	385237	389407	33.09	287.01	33.47	334.70	33.60	351.20	33.69	365.35	33.88	379.16	35.0	459.06
4	1290659	385392	389486	33.34	280.93	33.75	317.96	33.86	330.51	33.97	339.85	34.14	353.45	35.17	383.74
5	1290729	385490	389612	33.33	285.90	33.74	299.27	33.86	306.11	33.97	313.60	34.13	324.75	35.15	357.22
6	1290547	385507	389821	33.54	285.97	33.82	329.99	33.91	344.46	34.0	357.35	34.16	371.08	35.29	388.53
7	1290705	385565	389864	33.67	286.39	33.95	334.13	34.04	351.85	34.13	366.46	34.27	385.71	35.32	403.67
8	1290584	385583	389870	33.96	286.39	34.34	334.13	34.48	351.85	34.64	366.46	34.92	385.71	35.73	403.67
9	1290597	385783	389940	34.13	264.59	34.57	271.89	34.71	273.08	34.87	274.19	35.14	275.59	35.55	453.70
10	1290593	385948	390030	34.17	265.53	34.57	275.03	34.71	279.73	34.88	286.22	35.14	305.42	35.68	456.90

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.



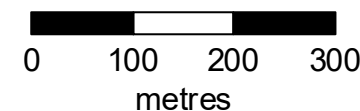
Defences removed modelled fluvial node locations

Location (easting/northing)
385353/389906

Scale Created
1:7,500 1 May 2024

Model name
Upper Mersey 2017

-  Selected area
-  Modelled location
-  Main river



Modelled node locations data

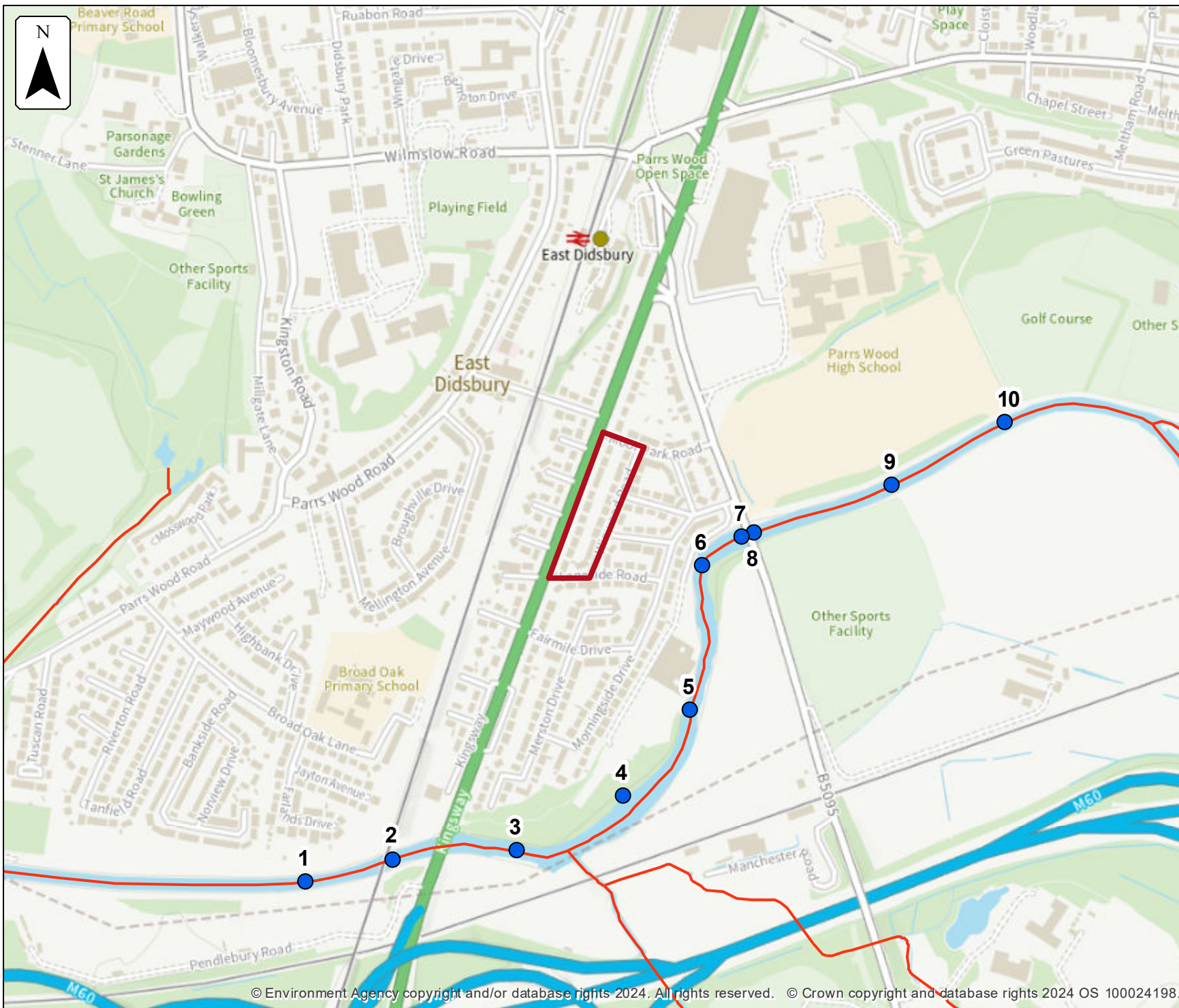
Defences removed

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	1290830	384929	389361	32.10	299.93	32.25	346.30	32.32	368.75	32.37	385.86	32.50	431.33	33.08	605.67
2	1290733	385057	389394	32.43	300.28	32.66	348.20	32.77	371.64	32.85	389.64	33.06	436.68	33.93	618.73
3	1290527	385237	389407	32.62	276.13	32.87	324.23	33.0	345.05	33.09	361.58	33.32	403.90	34.63	459.94
4	1290659	385392	389486	32.92	269.22	33.22	315.05	33.36	335.54	33.46	348.68	33.75	366.10	34.86	400.64
5	1290729	385490	389612	32.93	275.61	33.22	320.98	33.36	337.26	33.46	344.13	33.76	342.60	34.86	355.12
6	1290547	385507	389821	33.19	275.72	33.51	320.37	33.64	338.65	33.71	351.44	33.86	370.69	35.04	365.97
7	1290705	385565	389864	33.34	275.65	33.66	320.93	33.80	340.44	33.87	353.78	34.01	376.17	35.13	373.25
8	1290584	385583	389870	33.63	275.65	34.04	320.93	34.22	340.44	34.32	353.78	34.51	376.17	35.50	373.25
9	1290597	385783	389940	33.83	228.88	34.34	233.71	34.53	235.75	34.64	236.76	34.83	242.81	35.45	401.71
10	1290593	385948	390030	33.90	242.93	34.32	256.68	34.50	262.05	34.62	265.94	34.81	272.75	35.55	371.02

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.



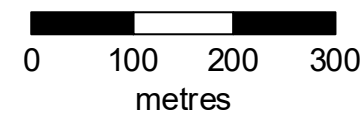
Defended climate change modelled fluvial node locations

Location (easting/northing)
385353/389906

Scale Created
1:7,500 1 May 2024

Model name
Upper Mersey 2017

- Selected area
- Modelled location
- Main river



Modelled node locations data

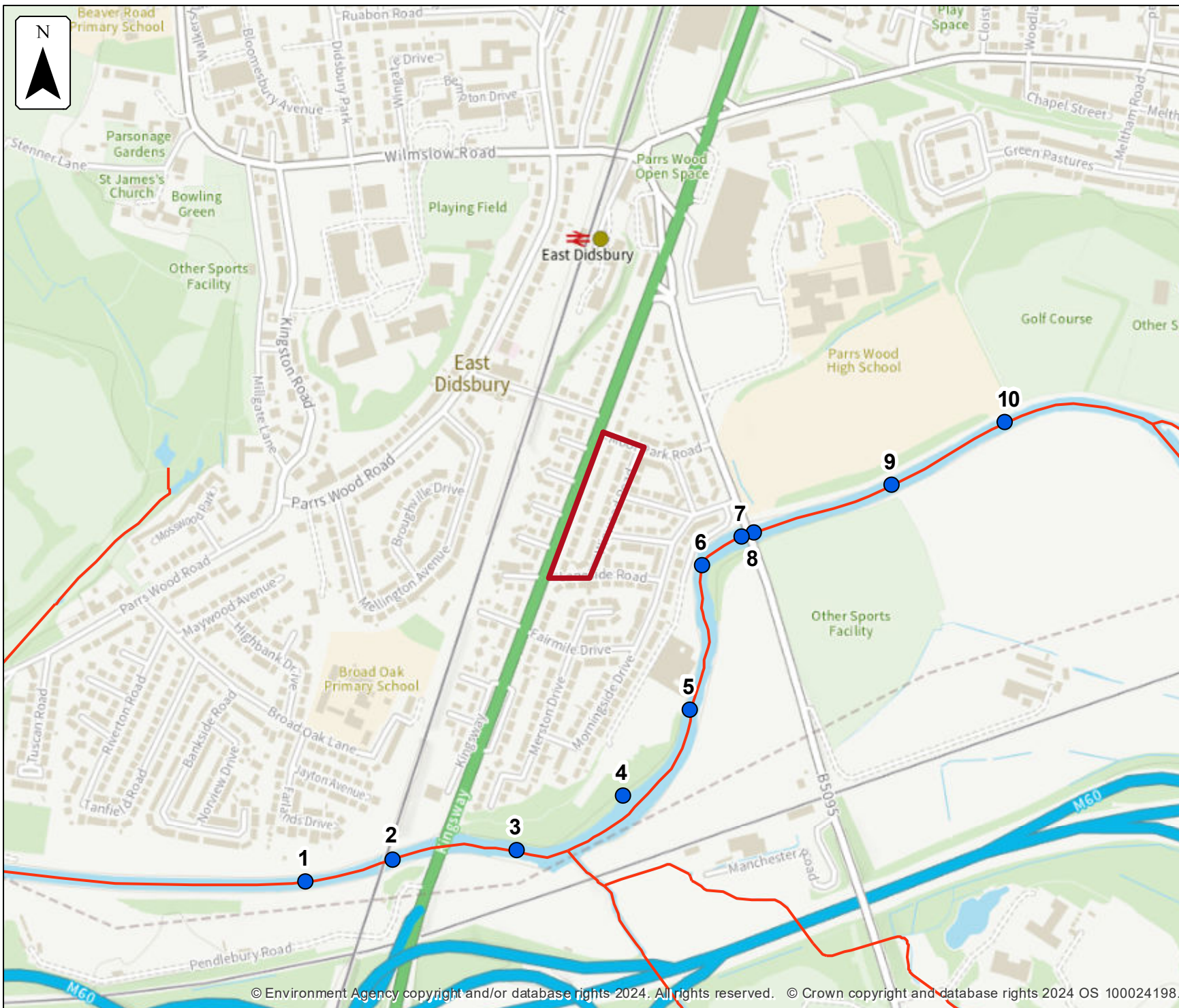
Defended climate change

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	1290830	384929	389361	33.65	488.38	33.69	508.38	33.89	589.73	34.21	744.02
2	1290733	385057	389394	34.04	478.45	34.12	495.11	34.43	566.0	34.96	708.62
3	1290527	385237	389407	34.26	435.29	34.34	449.73	34.86	453.26	35.62	452.28
4	1290659	385392	389486	34.59	366.56	34.68	368.35	35.05	378.89	35.70	441.90
5	1290729	385490	389612	34.58	333.47	34.68	334.26	35.03	352.79	35.70	385.50
6	1290547	385507	389821	34.68	381.18	34.81	382.21	35.17	383.09	35.85	407.06
7	1290705	385565	389864	34.73	401.28	34.84	403.27	35.21	398.65	35.89	425.40
8	1290584	385583	389870	35.26	401.28	35.31	403.27	35.63	398.65	36.38	425.40
9	1290597	385783	389940	35.34	314.91	35.37	326.45	35.48	436.96	36.12	563.12
10	1290593	385948	390030	35.34	360.08	35.36	374.04	35.62	432.81	36.18	595.38

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.



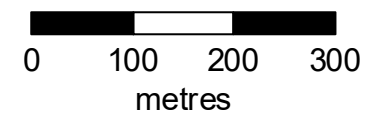
Defences removed climate change modelled fluvial node locations

Location (easting/northing)
385353/389906

Scale Created
1:7,500 1 May 2024

Model name
Upper Mersey 2017

- Selected area
- Modelled location
- Main river



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Modelled node locations data

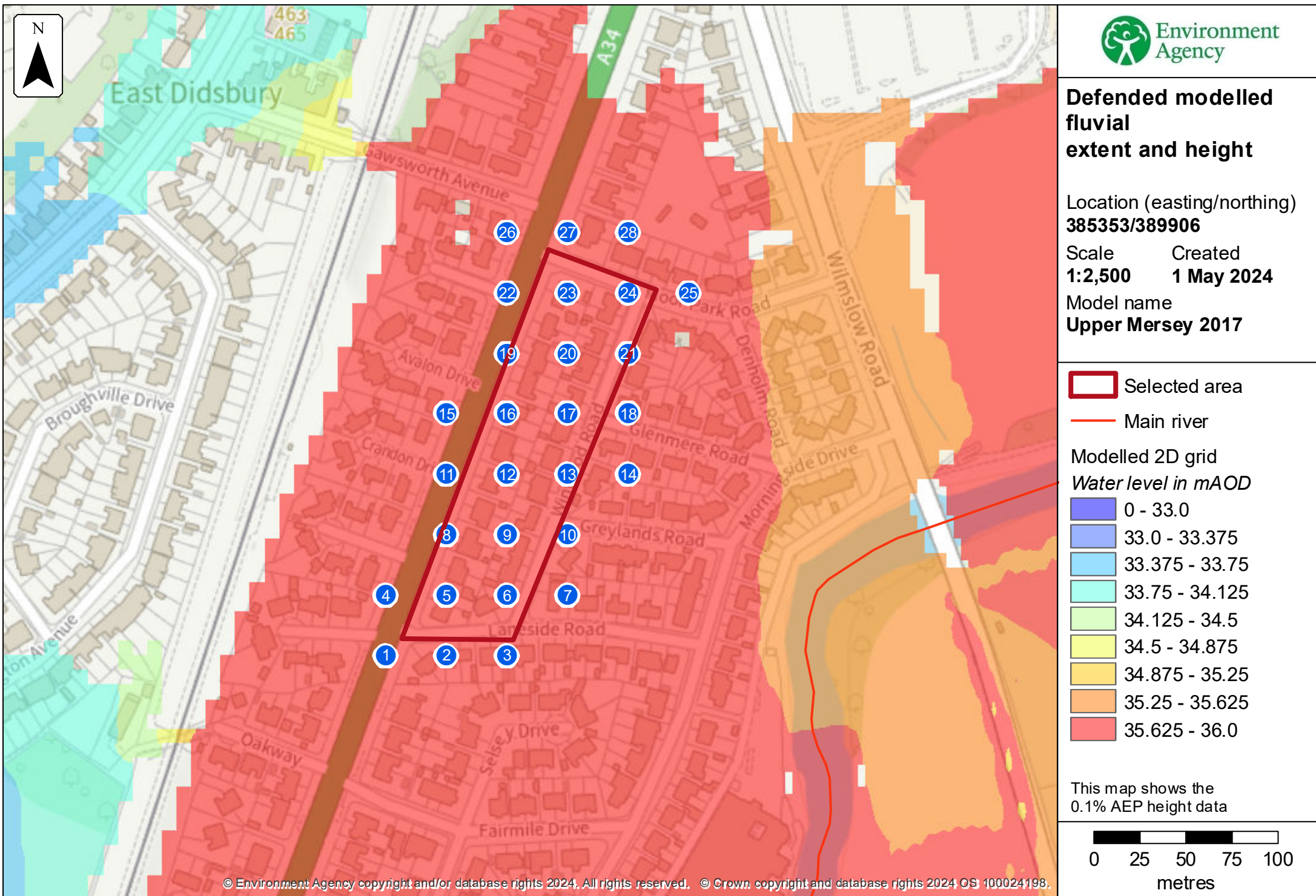
Defences removed climate change

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	1290830	384929	389361	32.67	494.96	32.73	510.96	33.02	589.49	33.52	729.39
2	1290733	385057	389394	33.38	504.58	33.46	521.49	33.85	602.82	34.50	753.99
3	1290527	385237	389407	33.73	451.19	33.86	453.33	34.50	457.20	35.42	457.69
4	1290659	385392	389486	34.16	382.06	34.27	382.41	34.76	394.85	35.52	434.16
5	1290729	385490	389612	34.17	342.67	34.28	341.82	34.76	351.39	35.52	360.73
6	1290547	385507	389821	34.30	370.67	34.42	372.84	34.93	363.39	35.71	373.53
7	1290705	385565	389864	34.39	379.39	34.50	378.83	35.01	368.85	35.76	382.01
8	1290584	385583	389870	34.96	379.39	35.05	378.83	35.44	368.85	36.13	382.01
9	1290597	385783	389940	35.13	267.89	35.20	275.79	35.44	320.24	35.83	545.91
10	1290593	385948	390030	35.13	300.03	35.20	311.36	35.44	359.52	35.98	548.57

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

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	385274	389795	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.94	35.13
2	385307	389795	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.65	35.13
3	385340	389795	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.64	35.14
4	385274	389828	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.95	35.13
5	385307	389828	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.71	35.14
6	385340	389828	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.64	35.14
7	385373	389828	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.65	35.15
8	385307	389861	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.82	35.14
9	385340	389861	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.67	35.14
10	385373	389861	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.51	35.15
11	385307	389894	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.65	35.14
12	385340	389894	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.77	35.14
13	385373	389894	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.50	35.15
14	385406	389894	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.27	35.15
15	385307	389927	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.66	35.15
16	385340	389927	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.61	35.15

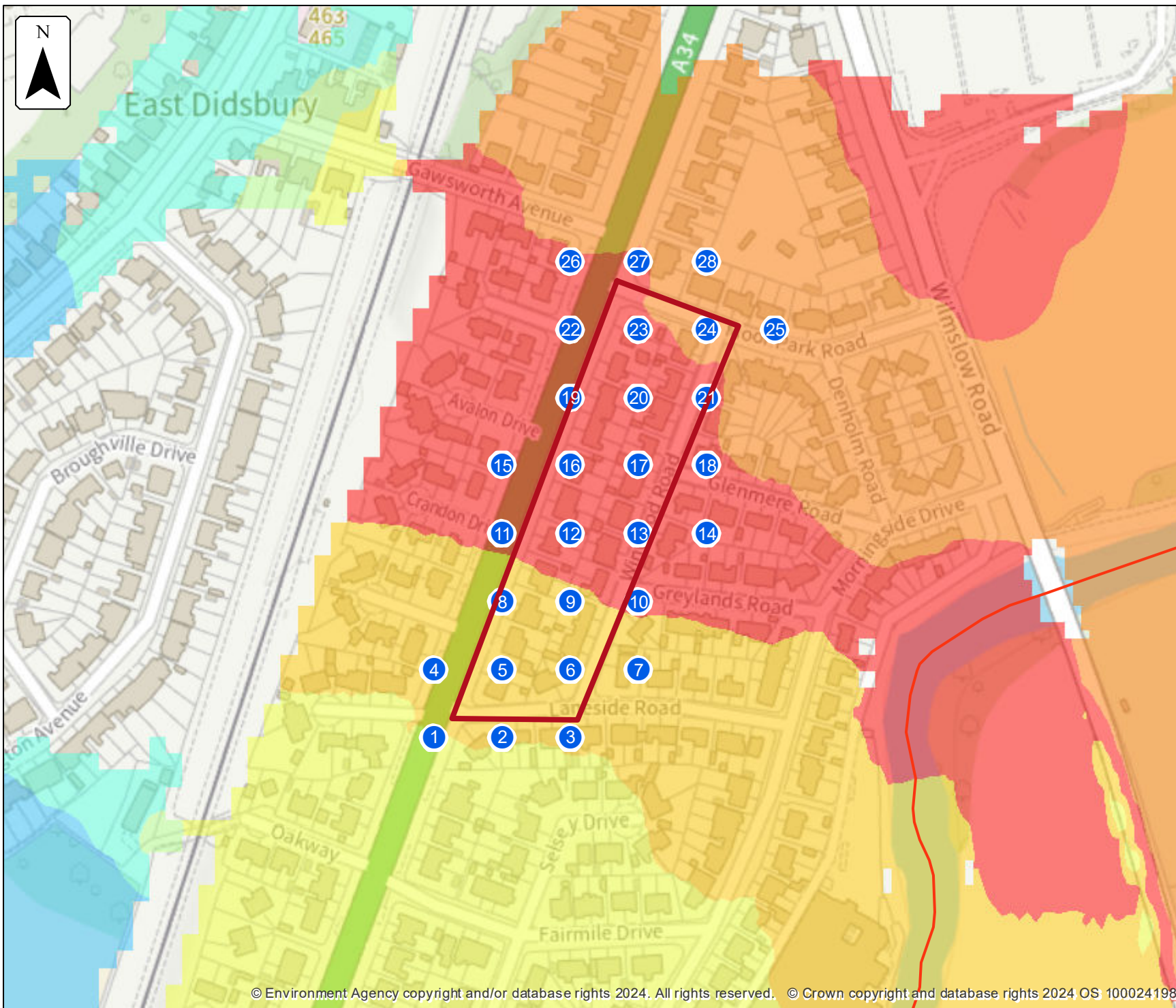
Label	Easting	Northing	5% AEP		2% AEP		1.33% AEP		1% AEP		0.5% AEP		0.1% AEP	
			Depth	Height	Depth	Height	Depth	Height	Depth	Height	Depth	Height	Depth	Height
17	385373	389927	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.51	35.15
18	385406	389927	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.28	35.15
19	385340	389960	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.63	35.15
20	385373	389960	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.52	35.15
21	385406	389960	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.37	35.15
22	385340	389993	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.43	35.15
23	385373	389993	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.63	35.15
24	385406	389993	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.44	35.17
25	385439	389993	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.32	35.20
26	385340	390026	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.37	35.15
27	385373	390026	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.31	35.15
28	385406	390026	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.43	35.17

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.



Defences removed modelled fluvial extent and height

Location (easting/northing)
385353/389906

Scale Created
1:2,500 1 May 2024

Model name
Upper Mersey 2017

 Selected area
 Main river

Modelled 2D grid
Water level in mAOD

	0 - 33.0
	33.0 - 33.375
	33.375 - 33.75
	33.75 - 34.125
	34.125 - 34.5
	34.5 - 34.875
	34.875 - 35.25
	35.25 - 35.625
	35.625 - 36.0

This map shows the
0.1% AEP height data


0 25 50 75 100
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	385274	389795	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.69	34.87
2	385307	389795	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.40	34.88
3	385340	389795	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.40	34.90
4	385274	389828	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.73	34.91
5	385307	389828	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.50	34.92
6	385340	389828	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.42	34.92
7	385373	389828	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.43	34.92
8	385307	389861	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.65	34.97
9	385340	389861	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.52	34.99
10	385373	389861	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.39	35.02
11	385307	389894	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.51	35.01
12	385340	389894	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.64	35.02
13	385373	389894	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.41	35.07
14	385406	389894	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.22	35.11
15	385307	389927	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.57	35.06
16	385340	389927	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.55	35.09

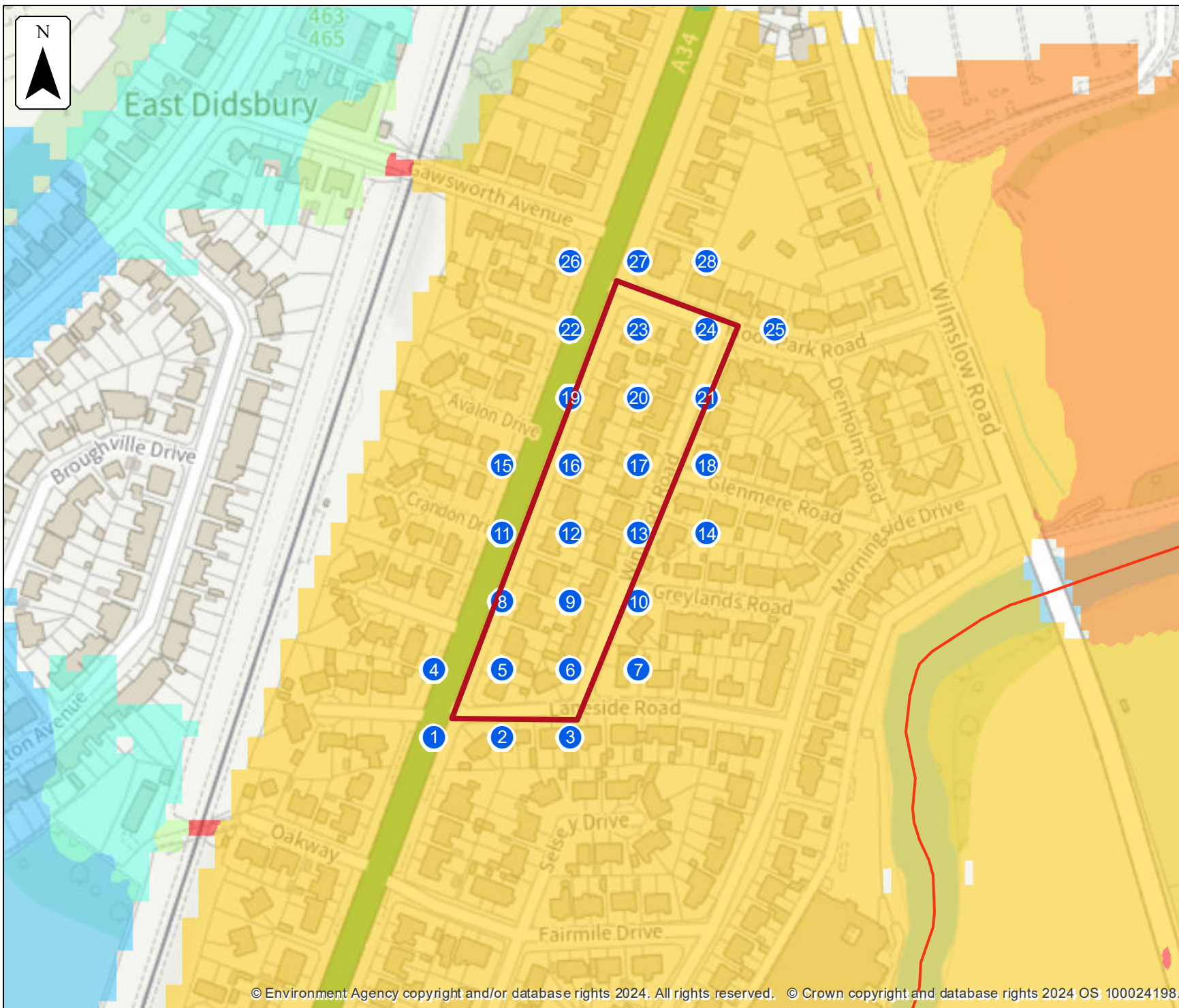
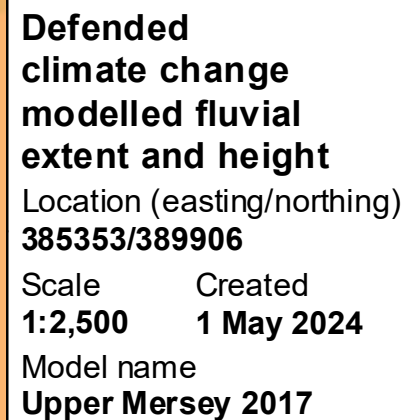
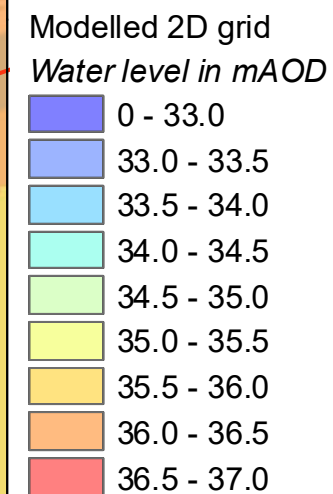
Label	Easting	Northing	5% AEP		2% AEP		1.33% AEP		1% AEP		0.5% AEP		0.1% AEP	
			Depth	Height	Depth	Height	Depth	Height	Depth	Height	Depth	Height	Depth	Height
17	385373	389927	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.48	35.11
18	385406	389927	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.26	35.13
19	385340	389960	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.62	35.14
20	385373	389960	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.51	35.15
21	385406	389960	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.43	35.21
22	385340	389993	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.47	35.19
23	385373	389993	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.71	35.24
24	385406	389993	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.58	35.31
25	385439	389993	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.55	35.43
26	385340	390026	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.46	35.24
27	385373	390026	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.40	35.25
28	385406	390026	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.64	35.38

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.



Sample point data

Defended 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	385274	389795	NoData	NoData	0.06	34.25	0.80	34.99	1.55	35.73
2	385307	389795	NoData	NoData	NoData	NoData	0.51	34.99	1.26	35.74
3	385340	389795	NoData	NoData	NoData	NoData	0.50	35.00	1.25	35.75
4	385274	389828	NoData	NoData	0.08	34.25	0.81	34.99	1.56	35.75
5	385307	389828	NoData	NoData	NoData	NoData	0.57	35.00	1.33	35.75
6	385340	389828	NoData	NoData	NoData	NoData	0.50	35.01	1.26	35.76
7	385373	389828	NoData	NoData	NoData	NoData	0.51	35.01	1.28	35.77
8	385307	389861	NoData	NoData	NoData	NoData	0.68	35.00	1.45	35.77
9	385340	389861	NoData	NoData	NoData	NoData	0.53	35.00	1.30	35.78
10	385373	389861	NoData	NoData	NoData	NoData	0.37	35.01	1.16	35.79
11	385307	389894	NoData	NoData	NoData	NoData	0.50	35.00	1.28	35.78
12	385340	389894	NoData	NoData	NoData	NoData	0.62	35.00	1.41	35.78
13	385373	389894	NoData	NoData	NoData	NoData	0.36	35.01	1.15	35.80
14	385406	389894	NoData	NoData	NoData	NoData	0.12	35.01	0.93	35.82
15	385307	389927	NoData	NoData	NoData	NoData	0.52	35.00	1.31	35.79
16	385340	389927	NoData	NoData	NoData	NoData	0.46	35.01	1.26	35.80

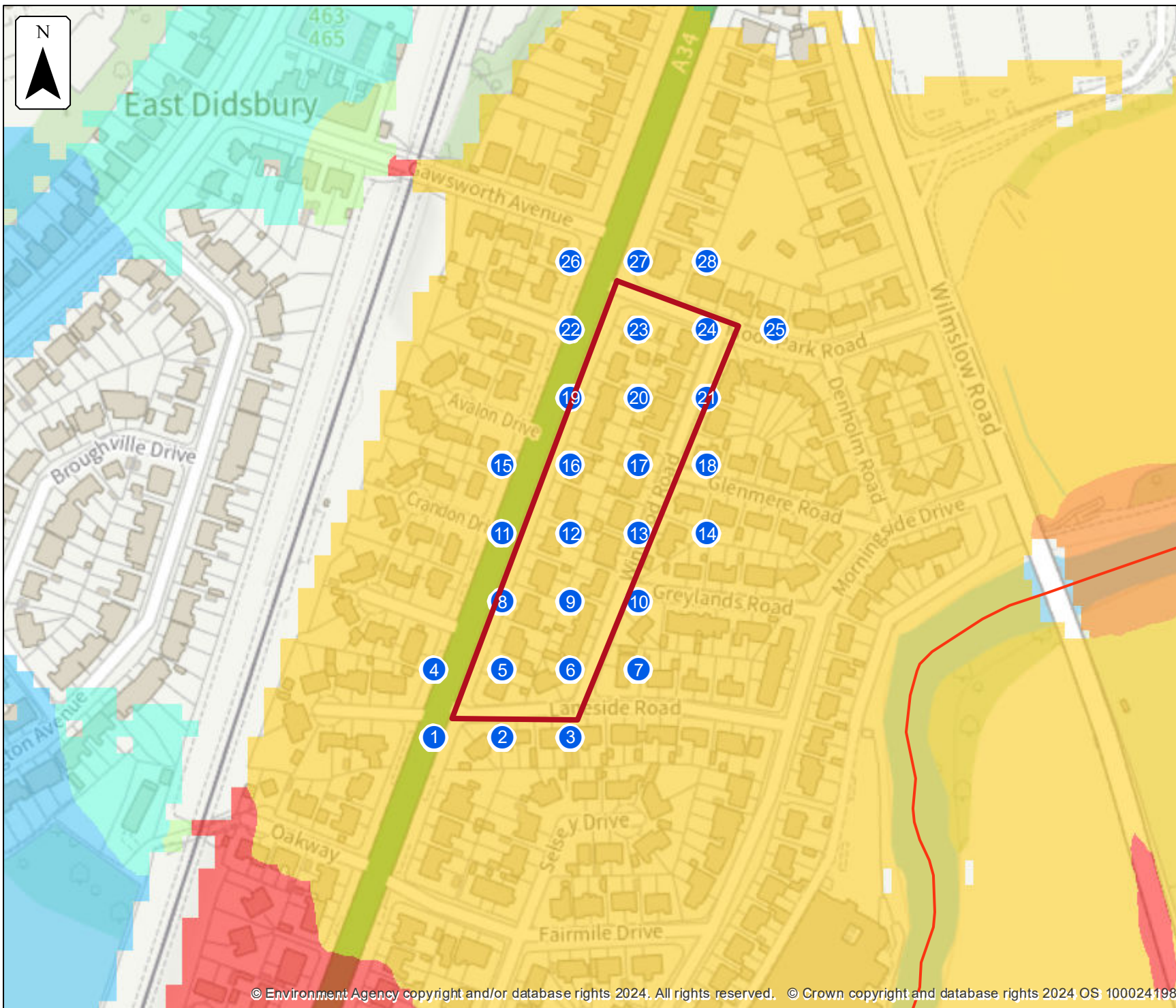
Label	Easting	Northing	1% AEP (+30%)		1% AEP (+35%)		1% AEP (+70%)		0.1% AEP (+30%)	
			Depth	Height	Depth	Height	Depth	Height	Depth	Height
17	385373	389927	NoData	NoData	NoData	NoData	0.37	35.01	1.18	35.81
18	385406	389927	NoData	NoData	NoData	NoData	0.14	35.01	0.95	35.82
19	385340	389960	NoData	NoData	NoData	NoData	0.49	35.01	1.30	35.81
20	385373	389960	NoData	NoData	NoData	NoData	0.38	35.01	1.19	35.82
21	385406	389960	NoData	NoData	NoData	NoData	0.23	35.01	1.05	35.83
22	385340	389993	NoData	NoData	NoData	NoData	0.29	35.01	1.11	35.83
23	385373	389993	NoData	NoData	NoData	NoData	0.48	35.01	1.31	35.84
24	385406	389993	NoData	NoData	NoData	NoData	0.31	35.03	1.13	35.86
25	385439	389993	NoData	NoData	NoData	NoData	0.21	35.09	1.00	35.88
26	385340	390026	NoData	NoData	NoData	NoData	0.23	35.01	1.06	35.84
27	385373	390026	NoData	NoData	NoData	NoData	0.17	35.01	1.00	35.84
28	385406	390026	NoData	NoData	NoData	NoData	0.31	35.05	1.13	35.87

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.



Defences removed climate change modelled fluvial extent and height

Location (easting/northing)
385353/389906

Scale Created
1:2,500 1 May 2024

Model name
Upper Mersey 2017

Selected area

Main river

Modelled 2D grid

Water level in mAOD

0 - 33.0
 33.0 - 33.5
 33.5 - 34.0
 34.0 - 34.5
 34.5 - 35.0
 35.0 - 35.5
 35.5 - 36.0
 36.0 - 36.5
 36.5 - 37.0

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

0 25 50 75 100
metres

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	385274	389795	0.09	34.28	0.18	34.36	0.54	34.73	1.38	35.56
2	385307	389795	NoData	NoData	NoData	NoData	0.25	34.73	1.09	35.57
3	385340	389795	NoData	NoData	NoData	NoData	0.25	34.75	1.09	35.59
4	385274	389828	0.22	34.40	0.29	34.47	0.57	34.76	1.40	35.58
5	385307	389828	0.01	34.44	0.07	34.49	0.35	34.77	1.17	35.59
6	385340	389828	0.05	34.55	0.07	34.57	0.26	34.77	1.10	35.60
7	385373	389828	NoData	NoData	0.04	34.54	0.27	34.77	1.12	35.62
8	385307	389861	0.19	34.50	0.24	34.56	0.50	34.82	1.30	35.61
9	385340	389861	0.13	34.60	0.17	34.64	0.38	34.85	1.15	35.63
10	385373	389861	0.06	34.68	0.09	34.72	0.26	34.89	1.01	35.65
11	385307	389894	0.07	34.56	0.13	34.62	0.36	34.86	1.13	35.63
12	385340	389894	0.24	34.62	0.28	34.66	0.50	34.88	1.26	35.64
13	385373	389894	0.08	34.73	0.12	34.77	0.28	34.93	1.01	35.66
14	385406	389894	NoData	NoData	0.02	34.88	0.09	34.98	0.80	35.69
15	385307	389927	0.14	34.62	0.19	34.68	0.42	34.91	1.17	35.65
16	385340	389927	0.17	34.71	0.20	34.75	0.40	34.94	1.12	35.67

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	385373	389927	0.10	34.74	0.14	34.77	0.33	34.97	1.04	35.68
18	385406	389927	NoData	NoData	NoData	NoData	0.13	34.99	0.82	35.69
19	385340	389960	0.23	34.74	0.27	34.79	0.47	34.99	1.17	35.69
20	385373	389960	0.13	34.76	0.17	34.80	0.36	34.99	1.06	35.69
21	385406	389960	0.09	34.87	0.12	34.90	0.28	35.07	0.94	35.72
22	385340	389993	NoData	NoData	0.10	34.82	0.31	35.03	0.99	35.71
23	385373	389993	0.29	34.82	0.34	34.87	0.55	35.08	1.20	35.73
24	385406	389993	0.20	34.93	0.24	34.97	0.43	35.15	1.03	35.76
25	385439	389993	0.16	35.04	0.21	35.09	0.40	35.28	0.92	35.81
26	385340	390026	NoData	NoData	0.07	34.85	0.30	35.08	0.95	35.73
27	385373	390026	0.03	34.86	0.05	34.89	0.24	35.09	0.89	35.73
28	385406	390026	0.23	34.97	0.29	35.03	0.48	35.22	1.04	35.78

Data in this table comes from the Upper Mersey 2017 model.

Height values are shown in mAOD, and depth values are shown in metres.

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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