

# Flood risk assessment data



**Location of site:** 294703 / 114684 (shown as easting and northing coordinates)

**Document created on:** 26 August 2022

**This information was previously known as a product 4.**

**Customer reference number:** 5FRE98EY4BD8

Map showing the location that flood risk assessment data has been requested for.



## **Flood map for planning (rivers and the sea)**

Your selected location is in flood zone 3.

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

This data is updated on a quarterly basis as better data becomes available.








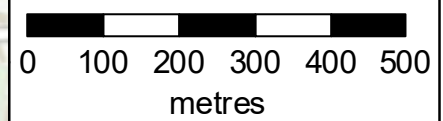
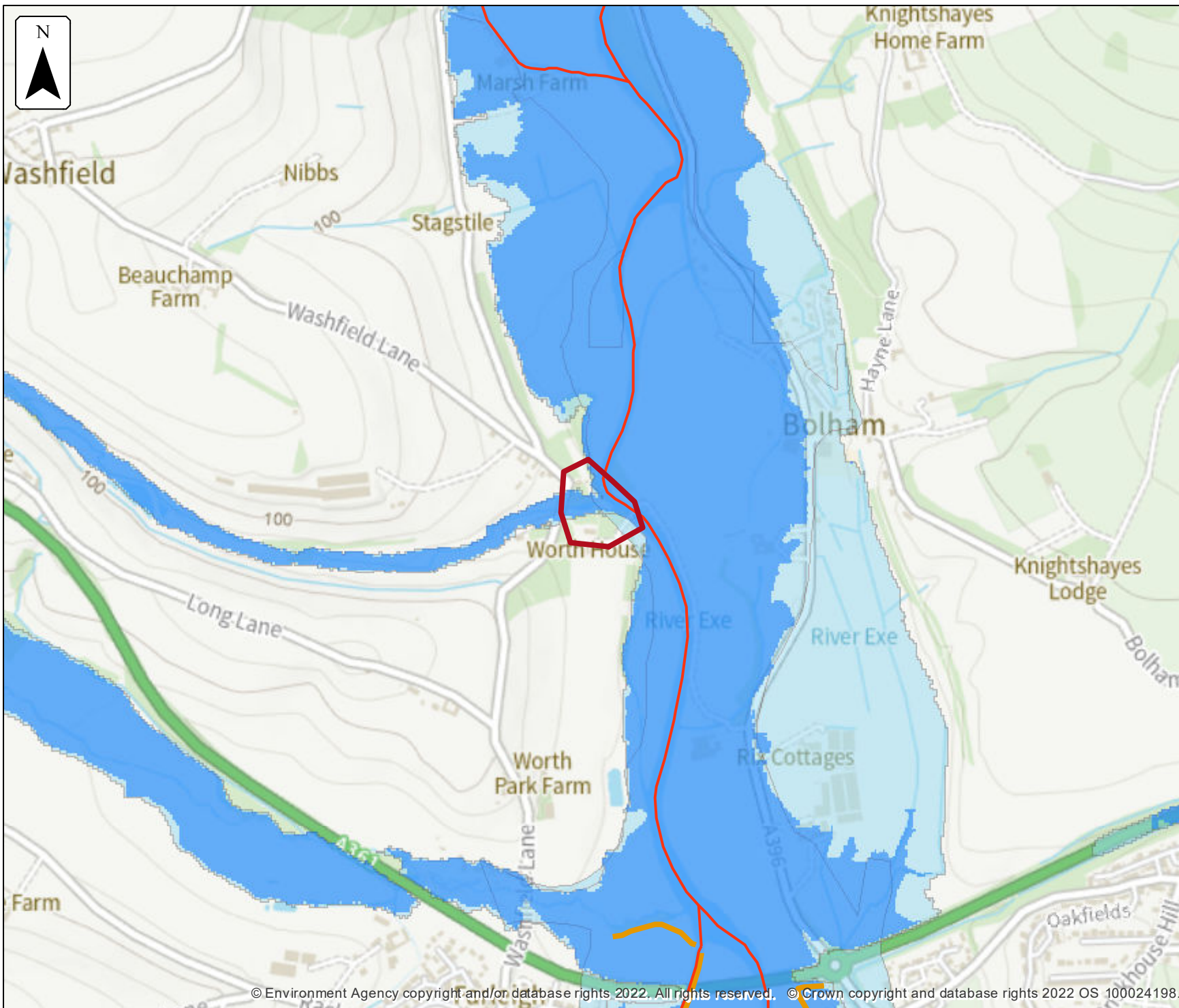
### Flood map for planning

Location (easting/northing)  
**294703/114684**

Scale  
**1:10,000**

Created  
**26 Aug 2022**

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



## Historic Information

The map below is an indicative outline of areas that have previously flooded.

Historic outlines may not be visible where they overlap. You can download the outlines separately via the link below.

[Download recorded flood outlines in GIS format](#)

Our historic flood event outlines:

- are an indication of the geographical extent of an observed flood event. We map flooding to land, not individual properties.
- not give any indication of flood levels for individual properties. They also do not imply that any property within the outline has flooded internally.
- are based on a combination of anecdotal evidence, Environment Agency staff observations and survey.
- do not provide a definitive record of flooding.

It is possible that there will be an absence of data in places where we have not been able to record the extent of flooding. It is also possible for errors occur in the digitisation of historic records of flooding.

Remember that: other flooding may have occurred that we do not have records for

Please note that our records are not comprehensive. We would therefore advise that you make further enquiries locally with specific reference to flooding at this location. You should consider contacting the relevant Local Planning Authority and/or water/sewerage undertaker for the area.










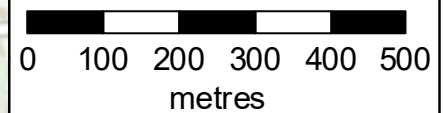
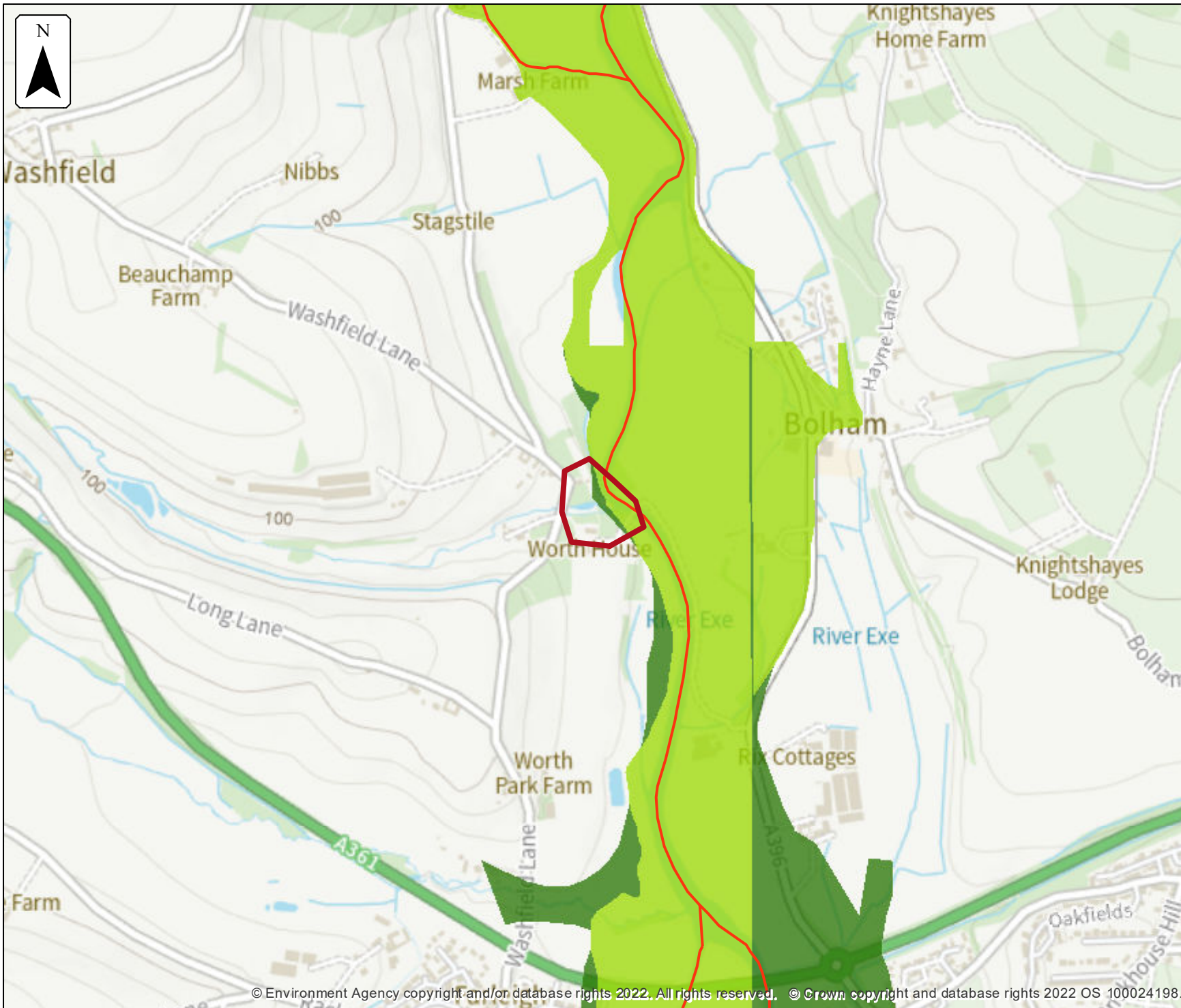
### Historic flood map

Location (easting/northing)  
**294703/114684**

Scale  
**1:10,000**

Created  
**26 Aug 2022**

-  Selected area
-  Main river
- Date of flood event
  -  December, 1965
  -  October, 1960
  -  October, 1953



## **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 and their condition. 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.






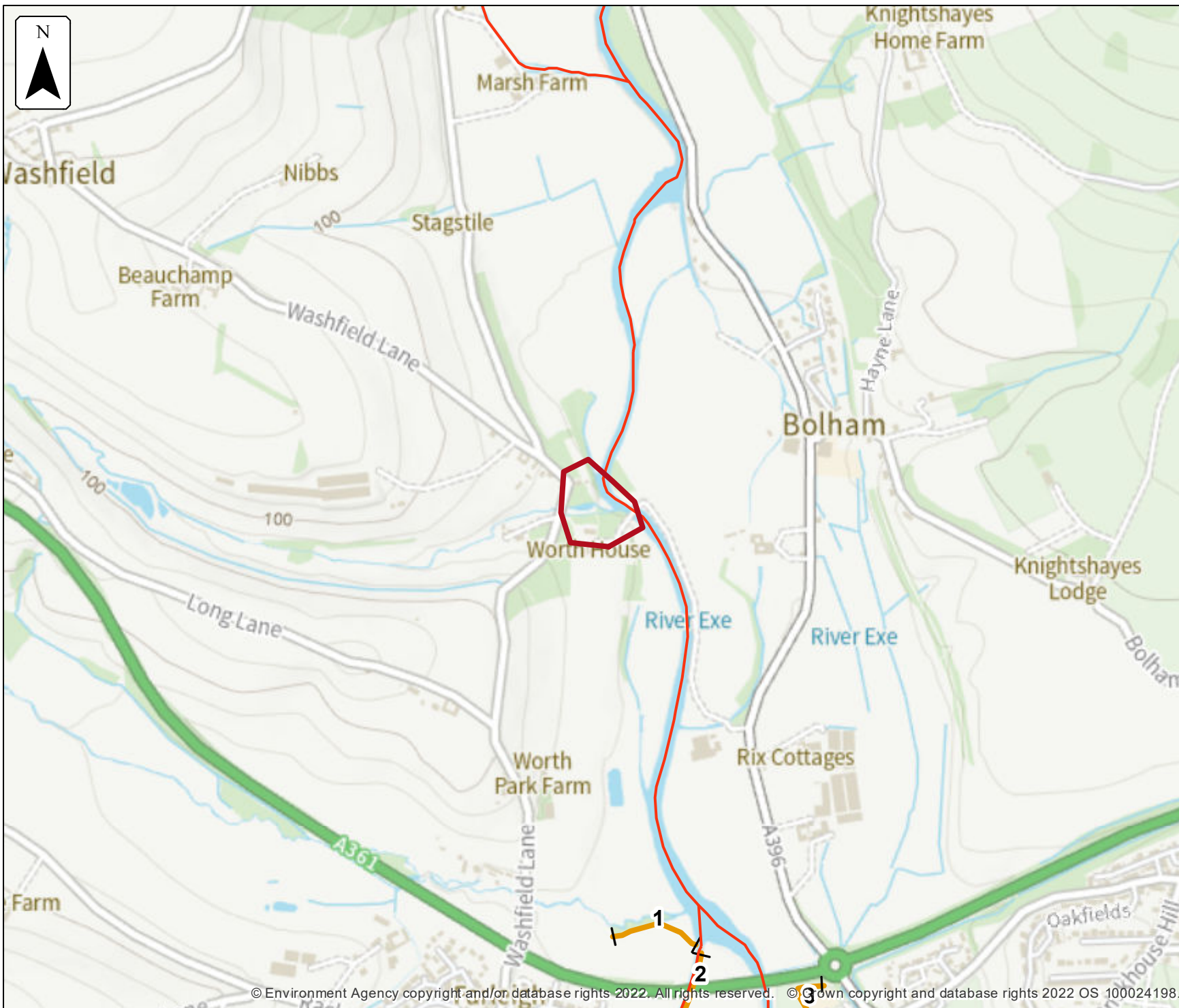
### Flood defences

Location (easting/northing)  
**294703/114684**

Scale  
**1:10,000**

Created  
**26 Aug 2022**

-  Selected area
-  Main river
-  Flood defence



## Flood defences data

| Label | Asset ID | Asset Type | Current condition | Downstream actual crest level (mAOD) | Upstream actual crest level (mAOD) | Effective crest level (mAOD) |
|-------|----------|------------|-------------------|--------------------------------------|------------------------------------|------------------------------|
| 1     | 4538     | Embankment |                   | 66.93                                | 67.18                              |                              |
| 2     | 56871    | Wall       |                   | 64.04                                | 65.47                              |                              |
| 3     | 56873    | Embankment |                   | 65.37                                | 66.17                              |                              |

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



## **Modelled data**

### **About the models used**

Model name: Tiverton 2D

Date: 2010

Model name: Tiverton

Date: 2017

This model contains the most relevant data for your area of interest.

You will need to consider the [latest flood risk assessment climate change allowances](#) and factor in the new allowances to demonstrate the development will be safe from flooding.

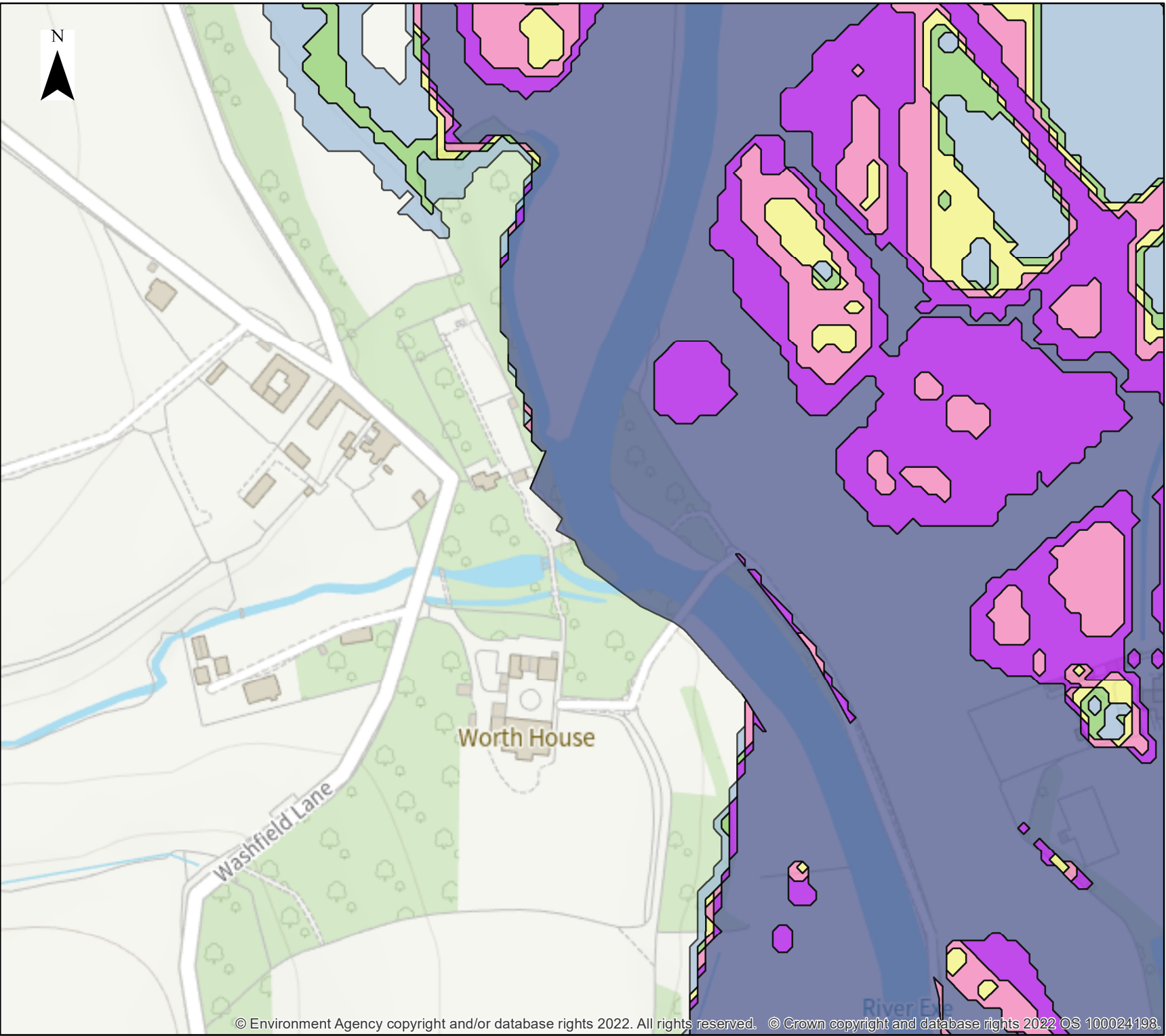
### **Terminology used**

#### **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.



### Defended Modelled Fluvial extent Map

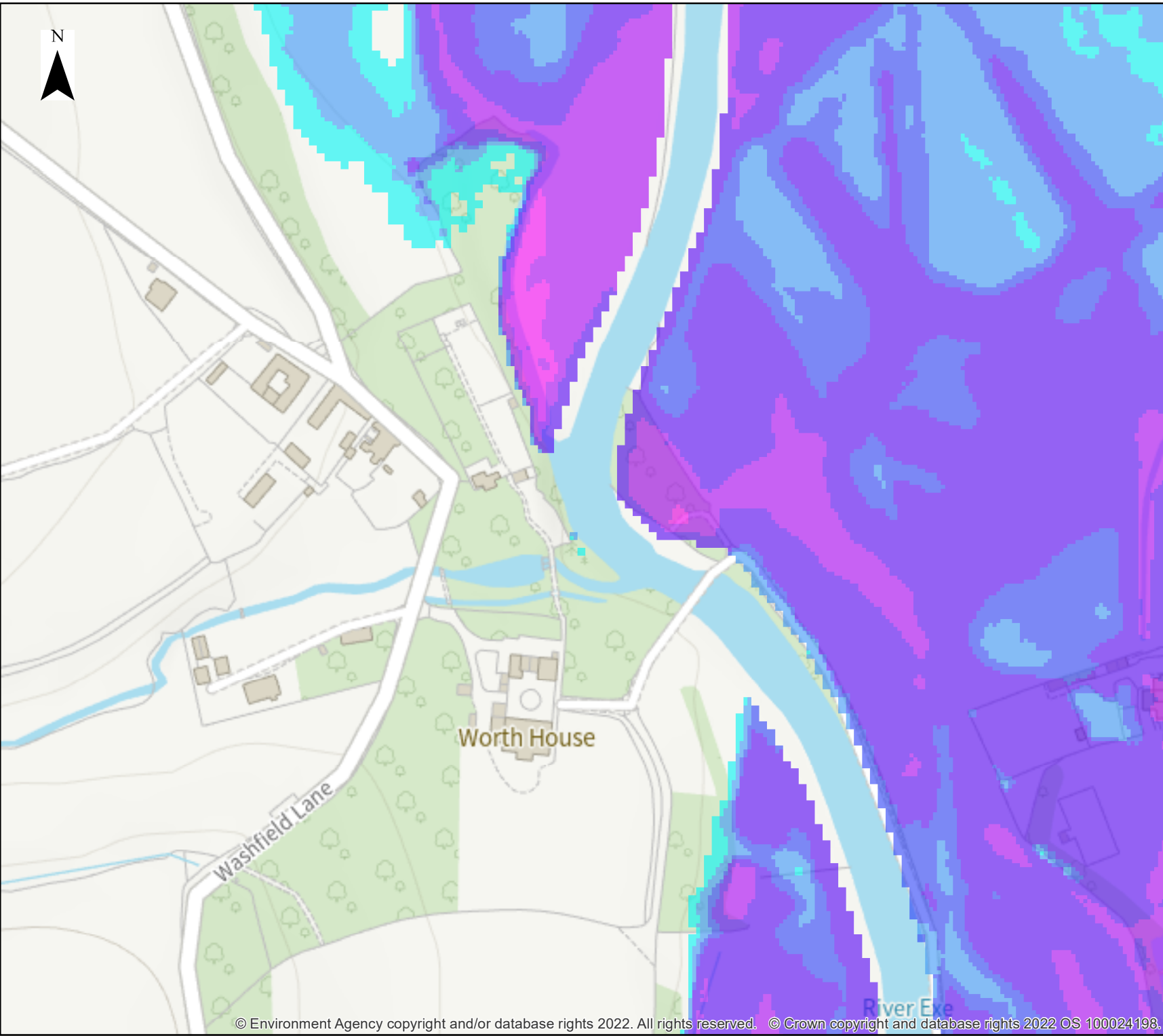
Location (easting/northing)  
**294703 / 114684**

Scale            Created  
**1:2,600        26 Aug 2022**

Model name  
**Tiverton 2010**

#### Legend

- 10% AEP Flood Extent
- 4% AEP Flood Extent
- 2% AEP Flood Extent
- 1.33% AEP Flood Extent
- 1% AEP Flood Extent
- 0.1% AEP Flood Extent



# Defended Modelled Fluvial Extent Map with Climate Change

Location (easting/northing)  
**294703 / 114684**





Scale            Created  
**1:2,600        26 Aug 2022**

Model name  
**Tiverton 2017**

## Legend

**1% AEP plus 85% CC**

**Metres**

-  0 - 0.3
-  0.3 - 0.6
-  0.6 - 0.8
-  0.8 - 1.5
-  1.5 - 2.5
-  2.5 +






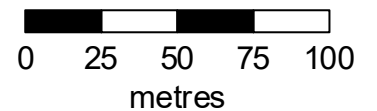
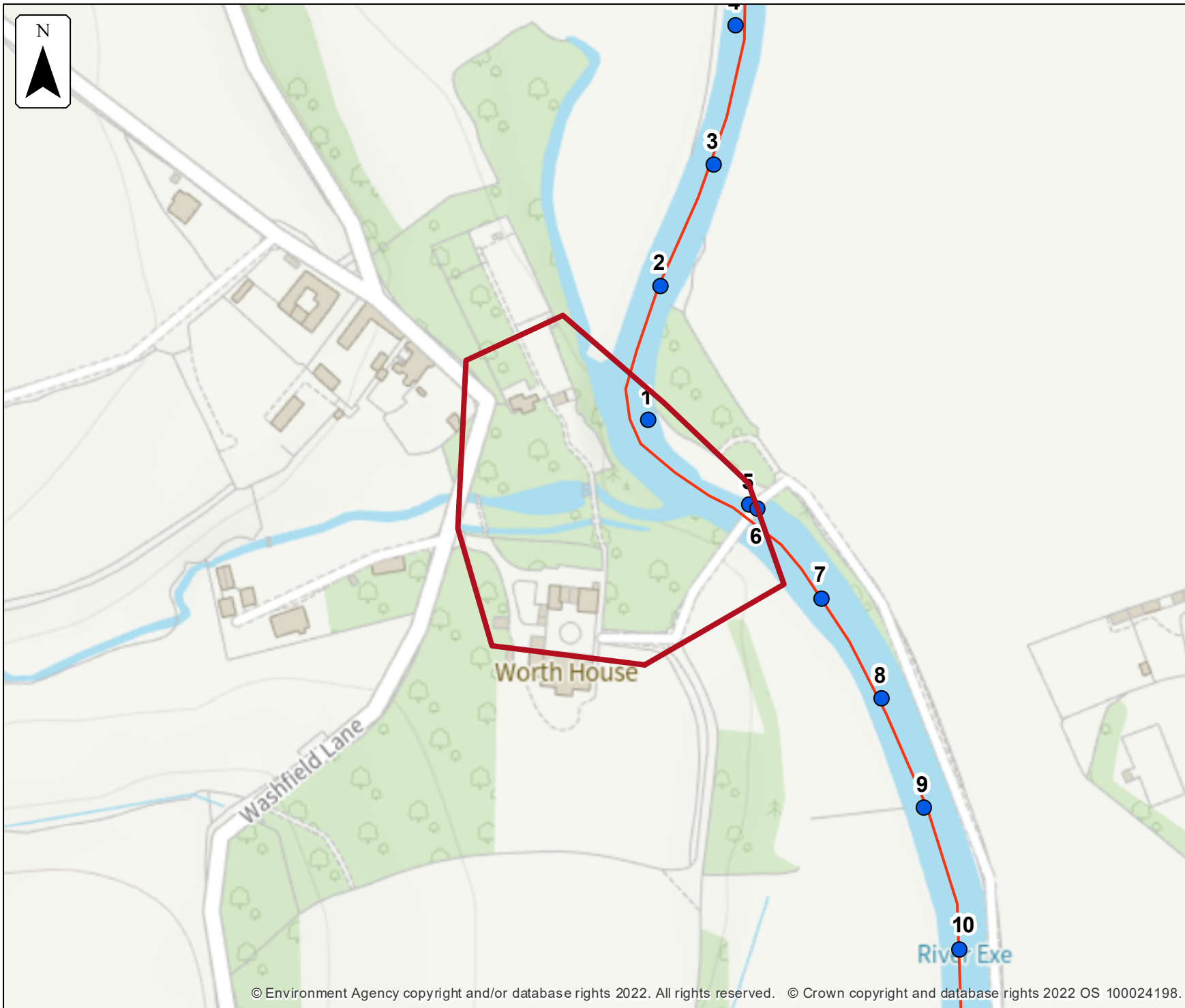
### Defended modelled fluvial node locations

Location (easting/northing)  
**294703/114684**

Scale          Created  
**1:2,500      26 Aug 2022**

Model name  
**Tiverton**

-  Selected area
-  Modelled location
-  Main river





## Modelled node locations data

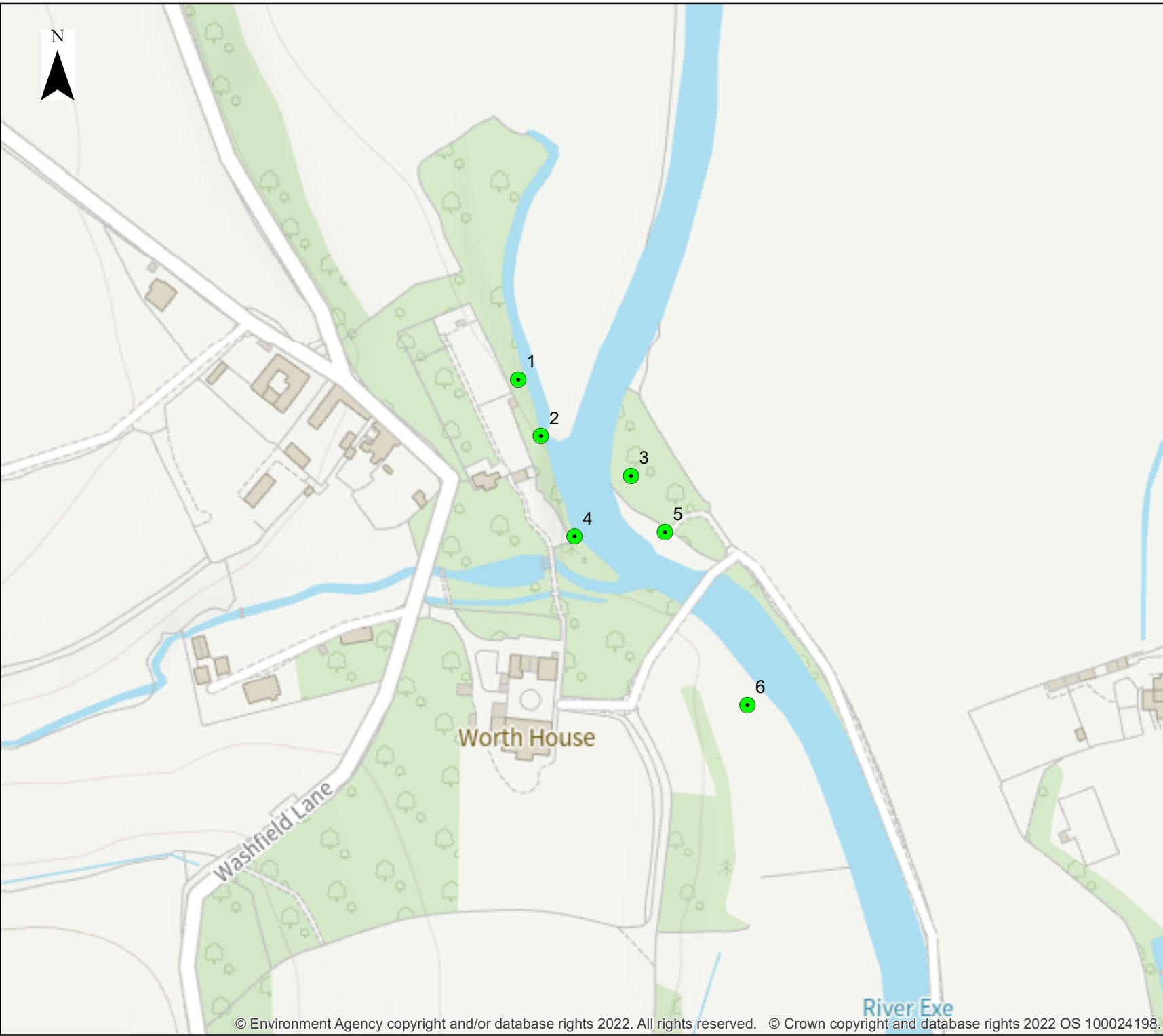
### Defended

| Label | Modelled location ID | Easting | Northing | 4% 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     | 106750               | 294728  | 114726   | 68.96  | 227.07 | 69.07  | 236.56 | 69.13     | 239.20 | 69.17  | 240.52 |          |      | 69.53    | 348.85 |
| 2     | 295061               | 294735  | 114791   | 69.07  | 222.98 | 69.15  | 238.25 | 69.19     | 247.68 | 69.21  | 253.42 |          |      | 69.63    | 324.92 |
| 3     | 115389               | 294760  | 114849   | 69.25  | 202.93 | 69.34  | 217.16 | 69.38     | 226.01 | 69.41  | 231.46 |          |      | 69.68    | 301.05 |
| 4     | 99806                | 294771  | 114917   | 69.31  | 220.27 | 69.41  | 233.67 | 69.47     | 240.56 | 69.50  | 245.76 |          |      | 69.81    | 306.55 |
| 5     | 102003               | 294777  | 114685   | 68.90  | 219.40 | 69.0   | 227.16 | 69.07     | 230.97 | 69.10  | 232.87 |          |      | 69.51    | 265.42 |
| 6     | 331503               | 294781  | 114682   | 68.33  | 219.40 | 68.42  | 227.16 | 68.47     | 230.97 | 68.51  | 232.87 |          |      | 68.85    | 265.42 |
| 7     | 141015               | 294812  | 114639   | 68.16  | 222.55 | 68.24  | 234.11 | 68.28     | 240.43 | 68.31  | 244.40 |          |      | 68.60    | 286.77 |
| 8     | 275337               | 294841  | 114591   | 68.03  | 218.45 | 68.11  | 228.56 | 68.15     | 234.01 | 68.19  | 238.22 |          |      | 68.48    | 280.82 |
| 9     | 15658                | 294862  | 114538   | 67.84  | 224.79 | 67.90  | 237.74 | 67.93     | 244.73 | 67.96  | 249.63 |          |      | 68.24    | 296.13 |
| 10    | 137034               | 294879  | 114469   | 67.60  | 219.97 | 67.65  | 230.69 | 67.68     | 236.89 | 67.71  | 241.04 |          |      | 68.01    | 286.06 |

Data in this table comes from the Tiverton 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.



### Level Node Map

Location (easting/northing)  
**294703 / 114684**

Scale      Created  
**1:2,600      26 Aug 2022**

Model name  
**Tiverton 2017**

### Legend

 Level Nodes

# Modelled Flood Level

| Defended Modelled Flood Level for Annual Exceedance Probability Shown (mAOD) |         |        |       |                 |
|--|---------|--------|-------|-----------------|
| Node ID  | 50% AEP | 10%AEP | 1%AEP | 1% AEP + 85% CC |
| 1  |         | 68.08  | 69.39 | 69.77           |
| 2  | 68.62   | 69.06  | 69.36 | 69.74           |
| 3  |         | 68.76  | 69.17 | 69.67           |
| 4  |         |        |       | 69.67           |
| 5  |         | 68.75  | 69.16 | 69.68           |
| 6  |         |        | 68.34 | 68.77           |

Data in this table comes from the Tiverton 2017 Model created 26/08/2022

## 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 Devon Cornwall and the Isles of Scilly Environment Agency team at [dcisenquiries@environment-agency.gov.uk](mailto:dcisenquiries@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