



Flood Risk Assessment

7 Deepdale Avenue
Manchester
M20 1GU

MAC01 2025

Citystruct LTD

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Quality Assurance – Approval Status

This document has been prepared and checked in accordance with Citystruct's internal governing processes

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Comments

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1. Introduction

CityStruct have been instructed to provide a Flood Risk Assessment for the proposed residential development at 7 Deepdale Avenue, Manchester, M20 1GU. This report is an assessment of all sources of flood risk associated with the proposed development.

The information presented and conclusions drawn are based on statistical data and are for guidance purposes only.

This Flood Risk Assessment (FRA) has been carried out in accordance with the requirements of the National Planning Policy Framework (NPPF) and the associated Planning Practice Guidance (PPG).

The Flood Risk Assessment also included a review of the Manchester City Council Local Flood Risk Management Strategy

This FRA is based on the following information:

- GOV UK online Flood Maps for Planning (Rivers and Sea),
- GOV UK online Flood Maps (Flood Risk from Surface Water),
- GOV UK online Risk of Flooding from Reservoirs,
- Cranfield University – Soilscales,
- Environment Agency Product 4 data,
- Topographic survey data

This report is accompanied by the CityStruct Drainage Strategy Report, reference MAC01-CTY-HGN-ZZ-RP-D-0502.

1.1 Site Description

The site is located to the north of Deepdale Avenue and is approximately 0.051ha. The generous plot hosts an existing residential dwelling being No. 7 Deepdale Drive in the south east corner and a timber shed to the south west corner. The north of the site is currently a turfed garden.

The centre of the site is located at 384129, 393800. The site is bound by residential dwellings to the east, a public right of way and the Platt Brook to the north and a new residential infill development to the west. The site is accessed directly from Deepdale Avenue.

A topographic survey has been undertaken which indicates the site fall generally from west to east from a maximum of c.31.9 down to 31.5mAOD to the north west of the site.

1.2 Development Proposals

The development proposals are to construct a new residential dwelling within the generous plot of no.7 Deepdale Avenue. A Proposed Site Plan has been included as Appendix A.



Figure 1 Proposed Site Plan (c/o MD Design Consultancy)

2. National Planning Policy Framework (NPPF)

The National Planning Policy Framework (NPPF) clearly identifies flood risk as a specific material consideration in the Planning Process and in the allocation and release of sites for development or re-development.

The NPPF expects the Local Planning Authority to adopt a risk-based approach at all levels of planning, through the application of the Sequential Test.

The aim of the sequential test is to steer new development to areas with the lowest probability of flooding. Development should not be allocated or permitted if there are reasonably available sites appropriate for the proposed development in areas with a lower probability of flooding.

The Strategic Flood Risk Assessment will provide the basis for applying this test. A sequential approach should be used in areas known to be at risk from any form of flooding.

2.1 Requirements for a Flood Risk Assessment

According to EA guidance an FRA is required for all development:

- in Flood Zones 2, 3 or 3b;
- within Flood Zone 1 with a site area of 1 hectare (ha) or more;
- in areas with critical drainage problems;
- within Flood Zone 1 where the Local Planning Authority's (LPA) SFRA shows it will be at increased risk of flooding during its lifetime; or
- that increases the vulnerability classification and may be subject to sources of flooding other than rivers or the sea.

2.2 Objectives of a Flood Risk Assessment

The objectives of a site-specific flood risk assessment are to establish:

- whether a proposed development is likely to be affected by current or future flooding from any source;
- whether it will increase flood risk elsewhere;
- whether the measures proposed to deal with these effects and risks are appropriate;
- the evidence for the local planning authority to apply (if necessary) the Sequential Test, and,
- whether the development will be safe and pass the Exception Test, if applicable.”

Paragraph 21 of the PPG to the NPPF states:

The information provided in the flood risk assessment needs to be credible and fit for purpose. Site-specific flood risk assessments need to be proportionate to the anticipated degree of flood risk and make optimum use of information already available, including information in a Strategic Flood Risk Assessment for the area, and the Environment Agency’s Flood Map and surface water flood risk information on Check the long term flood risk for an area in England. Flood risk assessments need to include the information set out in the flood risk assessment checklist.

A flood risk assessment needs to be appropriate to the scale, nature and location of the development. For example, where the development is an extension to an existing house (for which an application for planning permission is required) which would not significantly increase the number of people present in an area at risk of flooding, the local planning authority would generally need a less detailed assessment to be able to reach an informed decision on the planning application. For a new development comprising a greater number of houses in a similar location, or one where the flood risk is greater, the local planning authority would need a more detailed assessment.

Table 2 on the following page is a copy of Table 2: ‘Flood Risk Vulnerability Classification’ taken from of the PPG to the NPPF.

ESSENTIAL INFRASTRUCTURE

- Essential transport infrastructure (including mass evacuation routes) which has to cross the area at risk.
- Essential utility infrastructure which has to be located in a flood risk area for operational reasons, including electricity generating power stations and grid and primary substations; and water treatment works that need to remain operational in times of flood.
- Wind turbines.

HIGHLY VULNERABLE

- Police and ambulance stations; fire stations and command centres; telecommunications installations required to be operational during flooding.
- Emergency dispersal points.
- Basement dwellings.
- Caravans, mobile homes, and park homes intended for permanent residential use.
- Installations requiring hazardous substances consent.

MORE VULNERABLE

- Hospitals, residential institutions such as residential care homes, children's homes, social services homes, prisons and hostels.
- Buildings used for dwelling houses, student halls of residence, drinking establishments, nightclubs and hotels.
- Non-residential uses for health services, nurseries and educational establishments.
- Landfill* and sites used for waste management facilities for hazardous waste.
- Sites used for holiday or short-let caravans and camping, subject to a specific warning and evacuation plan.

LESS VULNERABLE

- Police, ambulance and fire stations which are not required to be operational during flooding.
- Buildings used for shops; financial, professional and other services; restaurants, cafes and hot food takeaways; offices; general industry, storage and distribution; non-residential institutions not included in the 'More Vulnerable' class; and assembly and leisure.
- Land and buildings used for agriculture and forestry.
- Waste treatment (except landfill* and hazardous waste facilities).
- Minerals working and processing (except for sand and gravel working).
- Water treatment works which do not need to remain operational during times of flood.
- Sewage treatment works, if adequate measures to control pollution and manage sewage during flooding events are in place.

WATER-COMPATIBLE DEVELOPMENT

- Flood control infrastructure.
- Water transmission infrastructure and pumping stations.
- Sewage transmission infrastructure and pumping stations.
- Sand and gravel working.
- Docks, marinas and wharves.
- Navigation facilities.
- Ministry of Defence installations.
- Ship building, repairing and dismantling, dockside fish processing and refrigeration and compatible activities requiring a waterside location.
- Water-based recreation (excluding sleeping accommodation).
- Lifeguard and coastguard stations.
- Amenity open space, nature conservation and biodiversity, outdoor sports and recreation and essential facilities such as changing rooms.
- Essential ancillary sleeping or residential accommodation for staff required by uses in this category, subject to a specific warning and evacuation plan.

Table 1 Flood Risk Vulnerability Classification

2.3 Exception and Sequential Test

With reference to Table 2, it is evident that the proposed development is classified as a 'More Vulnerable' development.

With reference to Table 3 below which is a copy of Table 3: 'Flood Risk Vulnerability and flood zone compatibility' taken from of the PPG to the NPPF. It is evident that the proposed 'Less Vulnerable' development, located within Flood Zone 3a, is appropriate development.

Flood Zones	Flood Risk Vulnerability Classification				
	Essential Infrastructure	Highly Vulnerable	More Vulnerable	Less Vulnerable	Water Compatible
Zone 1	✓	✓	✓	✓	✓
Zone 2	✓	Exception test required	✓	✓	✓
Zone 3a	Exception test required	✗	Exception test required	✓	✓
Zone 3b	Exception test required	✗	✗	✗	✓

Table 2 Flood Risk Vulnerability and flood zone compatibility

Key:

- ✓ Development is appropriate.
- ✗ Development should not be permitted.

The site is a rare opportunity for infill development in an existing residential area. The sequential test is therefore considered passed.

No exception test is required due to flood zone and vulnerability classification combination.

3. Potential Sources of Flood Risk

This flood risk assessment will assess the following sources of flooding in turn;

- Fluvial – Main River
- Pluvial – Surface Water
- Reservoirs and Artificial Water Bodies
- Sewers
- Groundwater
- Tidal/Coastal Flooding

3.1 Fluvial Flood Risk

Fluvial flooding occurs when the flows exceed the capacity of the channel, or where a restrictive structure is encountered, which leads to water overtopping the banks into the floodplain. This process can be exacerbated when debris is mobilised by high flows and accumulates at structures.

The Environment Agency Flood Maps for Planning refer to 'Flood Zones' which show the extent of the natural floodplain and ignores the presence of flood defences, man-made structures and channel improvements.

Table 3 GOV UK Flood Map for Planning Description

Annotation	Description
Flood Zone 3	<p>Flood Zone 3 comprises of two elements; Flood Zone 3A and Flood Zone 3B where:</p> <p><u>Flood Zone 3A</u> shows the area of land that could be affected by flooding from rivers during a 1.0 percent (1 in 100 year event) and from the sea during a 0.5 percent (1 in 200 year event).</p> <p><u>Flood Zone 3B</u> denotes the area of land where water has to flow or be stored in times of a flood. It is typically defined as an area of land that has a 5.0 percent (1 in 20 year) or greater chance of occurring each year.</p>
Flood Zone 2	<p>Flood Zone 2</p> <p>Shows the areas which are likely to be affected by a major flood, with up to a 0.1 per cent (1 in 1000 year) chance of occurring each year.</p>
Flood Zone 1	<p>Flood Zone 1</p> <p>Shows the area of land where flooding from rivers and the sea is extremely unlikely and is defined as land having a less than 0.1 percent (1 in 1,000 year) chance of occurring each year.</p>

Fluvial flood risks to the site are attributed to the Platt Brook which is located 30m north of the site running east to west. The Platt Brook is shown to be culverted 150m upstream of the site where it is joined by the Cringle Black Brook. The Cringle Black Brook is also thought to contribute fluvial flood risks to the site but at a lesser extent.

The site is located south of the Platt Brook in a large area of Flood Zone 2 which is defended by a Flood Embankment with a 100 year or 1%AEP standard of protection. The levels of the embankment range from 31.39mAOD to 32.25mAOD.

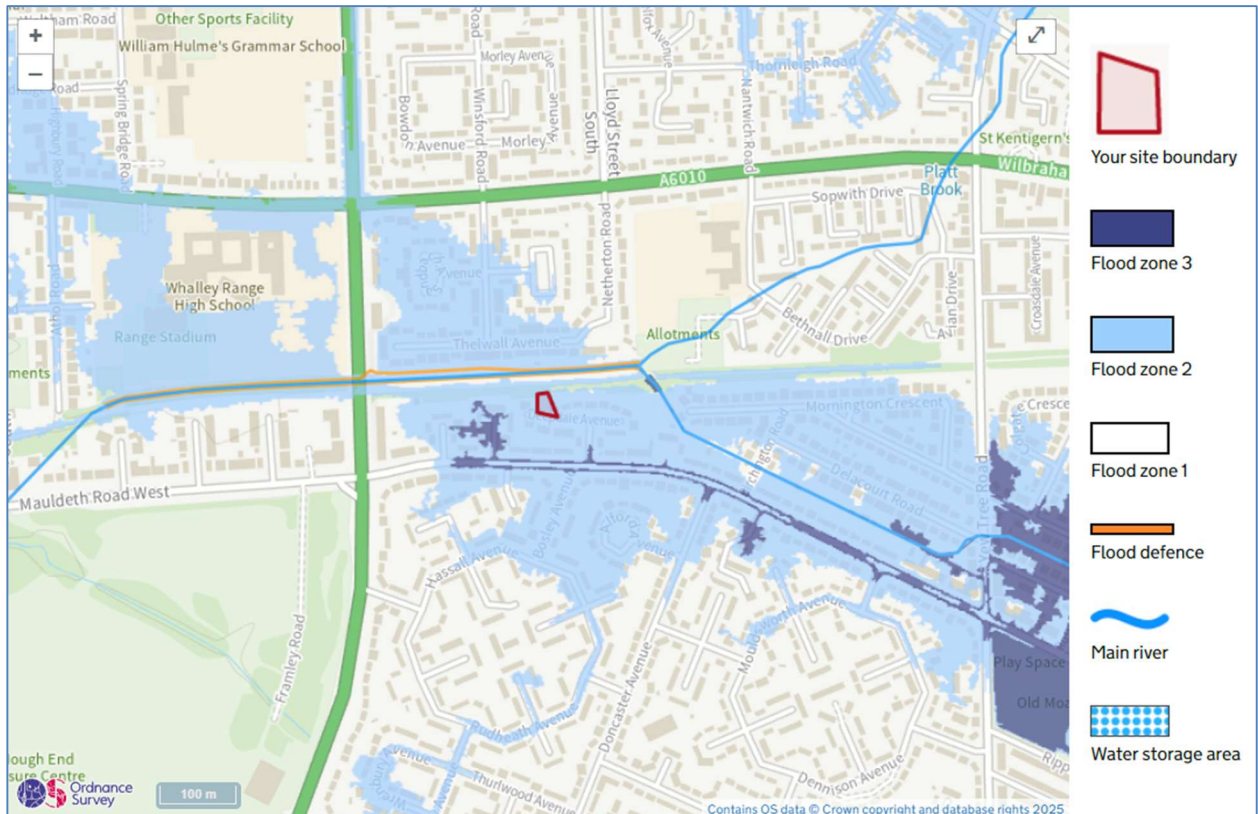


Figure 2 GOV UK Flood Map for Planning (Rivers and Sea)

Environment Agency provided Product 4 information has been obtained and reviewed with respect to the site fluvial flood risks and is included as Appendix B. The data included by the EA includes the recent Chorlton Platt Gore Model 2024 and the Cringle Black Brook 2017 model. Both models include defended, undefended and climate change scenarios.

There are **no** Recorded Flood Outlines provided which indicate the site to have been subject to historic flooding.

Node Data

Data for the nodes within close proximity of the site was analysed as follows.

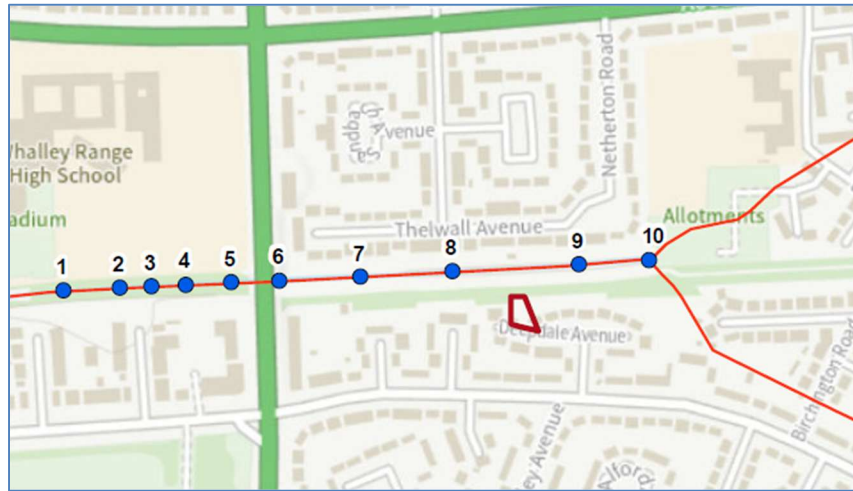


Figure 3 Chorlton Platt Gore Model 2024 Nodes

Table 4 Chorlton Platt Gore Model 2024 Nodes (mAOD)

	8	9
Defended 1% +41%CC	31.96	32.20
Defences Removed 1% +41%CC	31.80	32.20

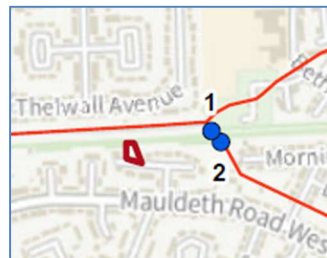


Figure 4 Cringle Black Brook 2017

Table 5 Cringle Black Brook 2017 Nodes (mAOD)

	1	2
Defences Removed 1% +35%CC	31.85	31.85
Defended 1% +35%CC	31.85	31.85
Defences Removed 1% +70%CC	31.86	31.85

From the comparison above, it is evident that the Platt Brook is the main contributor of flood risks to the site. Mitigation measures will therefore be advised based on these levels.

The updated Chorlton Platt Gore Model 2024 also included site specific anticipated flood depths for a range of scenarios. The proposed dwelling is to be situated in the south west corner of the site. Predicted flood depths from the modelling for points 12, 13, 17 & 18 have therefore been reviewed as per Figure 5 below.

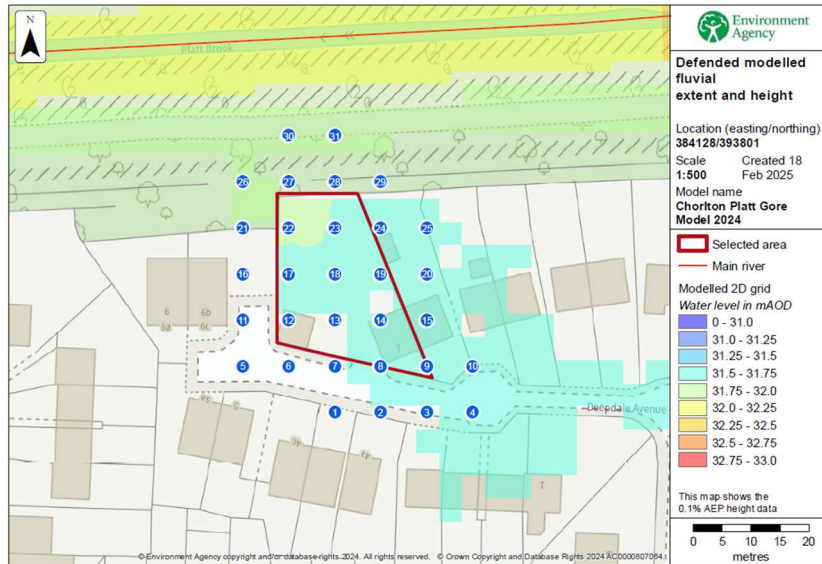


Figure 5 EA Chorlton Platt Gore Model 2024 site specific modelled extents.

Table 6 EA Chorlton Platt Gore Model 2024 site specific modelled extents

	12	13	17	18
Defended 1% +41%	No data	No data	No data	No data
Defended 1% +53%	No data	No data	No data	31.65
Defences Removed 1% +41%	No data	31.73	31.73	31.73
Defences Removed 1% +53%	No data	31.75	31.75	31.75

Defra guidance states that peak river flow allowances for “more vulnerable” developments should be based on the central allowance. In the Upper Mersey Management Catchment, this is 41% for developments with a design life into the 2080’s such as the proposed residential dwelling.

The identified embankment on the south bank of the Platt Brook defends a significant area and will be maintained in perpetuity. The defended scenario has therefore been selected for the site design flood level.

There is no data for the 41% climate change allowance. For the 53% allowance flooding was predicted to 31.65mAOD for point 18 within the proposed building footprint. The topographic survey indicated the ground to be c.31.64mAOD resulting in minimal 100mm flooding. **The design flood level for the site is therefore considered to be 31.65mAOD**

Defra guidance states that the finished floor level should be set 600mm above the river flood level. A **minimum FFL of 32.25mAOD** is therefore proposed for the development. This also provides in excess of 500mm+ clearance above the defences removed scenarios.

3.2 Pluvial Flood Risk

The EA website states:

“Flooding from surface water is difficult to predict as rainfall location and volume are difficult to forecast. In addition, local features can greatly affect the chance and severity of flooding. Because of this, we report the highest risk within 20m of a specific location, such as an individual property. This means reports for neighbouring properties may show different levels of risk.”

Table 7 GOV UK Surface Water Flood Map descriptions.

Scenario / Annotation	Description
High Risk – Dark blue shading	High risk means that each year this area has a chance of flooding of greater than 3.3%. Flooding from surface water is difficult to predict as rainfall location and volume are difficult to forecast. In addition, local features can greatly affect the chance and severity of flooding.
Medium Risk – Blue shading	Medium risk means that each year this area has a chance of flooding of between 1% and 3.3%. Flooding from surface water is difficult to predict as rainfall location and volume are difficult to forecast. In addition, local features can greatly affect the chance and severity of flooding.
Low Risk – Light blue shading	Low risk means that each year this area has a chance of flooding of between 0.1% and 1%. Flooding from surface water is difficult to predict as rainfall location and volume are difficult to forecast. In addition, local features can greatly affect the chance and severity of flooding.
Very Low Risk – No shading	Very low risk means that each year this area has a chance of flooding of less than 0.1%. Flooding from surface water is difficult to predict as rainfall location and volume are difficult to forecast. In addition, local features can greatly affect the chance and severity of flooding.

The GOV UK Flood Risk from Surface Water – Flood Maps (Figure 6), indicates the site to be located in an area of medium risk. This is indicated to increase to high in the 2040-2060 epoch.



Figure 6 GOV UK Flood Risk from Surface Water Flood Maps

Pluvial flood risks to the site are appropriately mitigated via the fluvial mitigation measures suggested. Pluvial flood risks from the site are mitigated via the associated CityStruct Drainage Strategy MAC01-CTY-HGN-ZZ-RP-D-0502.

3.3 Reservoir and Artificial Water Bodies

The Environment Agency 'Risk of Flooding from Reservoirs' maps indicate areas where peoples' lives would be in danger as a result of an uncontrolled release of water from a reservoir.

Scenario / Annotation	Description
Dark blue shading	Risk when river levels are normal
Blue shading	Risk when there is also flooding from rivers

Table 8 GOV UK Reservoir Flood Map descriptions.

With reference to the below online Environment Agency Risk of Flooding from Reservoir Failure Flood Maps, it is evident that there may be some risk to the site from reservoir flooding "when river levels are normal"

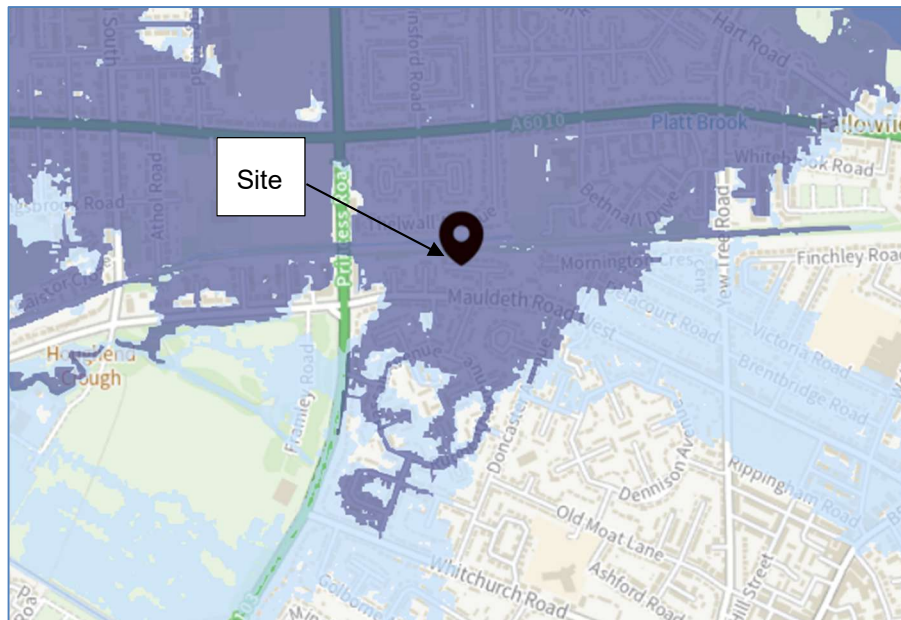


Figure 7 GOV UK Flood Risk from Reservoir Flood Maps

Dams and reservoirs in England are regulated by the Reservoirs Act 1975, which sets out stringent conditions and requires the inspection and maintenance of reservoirs capable of holding over 25,000 m³ of water above natural ground level. The Environment Agency monitor compliance at such reservoirs and employ a range of enforcement options where necessary. As such the probability of a reservoir breach is deemed to be very low.

The measures suggested for fluvial flood risks are considered to mitigate against the extremely unlikely event of reservoir flooding.

3.4 Sewer Flooding

Sewer flooding can occur when either;

- the capacity of the sewer system is overwhelmed by heavy rainfall and / or,
- the sewer network becomes blocked or is of inadequate capacity, resulting in flooding of land and/or property.

United Utilities sewer maps have been obtained for the development of the associated drainage Strategy. These indicate an oversized surface sewer and a foul sewer in Deepdale Road immediately outside the proposed dwelling. These then discharge to a combined system 20m east of the site. The ground falls west to east and therefore any sewer flooding would follow the topography away from the site.

Risks from sewer flooding are therefore considered low.

3.5 Groundwater Flood Risk

Groundwater flooding generally occurs during intense and/or long-duration rainfall events which is sometimes referred to as antecedent conditions. Groundwater flooding is most common in low-lying areas overlain by permeable soils and permeable geology, or in areas with a naturally high-water table.

According to the Soilscape Maps produced by the National Soils Research Institute, soil conditions (Figure 5) at the site and within the surrounding catchment is described as “Slowly permeable seasonally wet acid loamy and clayey soils”. Slowly permeable soils do not usually pose risks of ground water flooding.

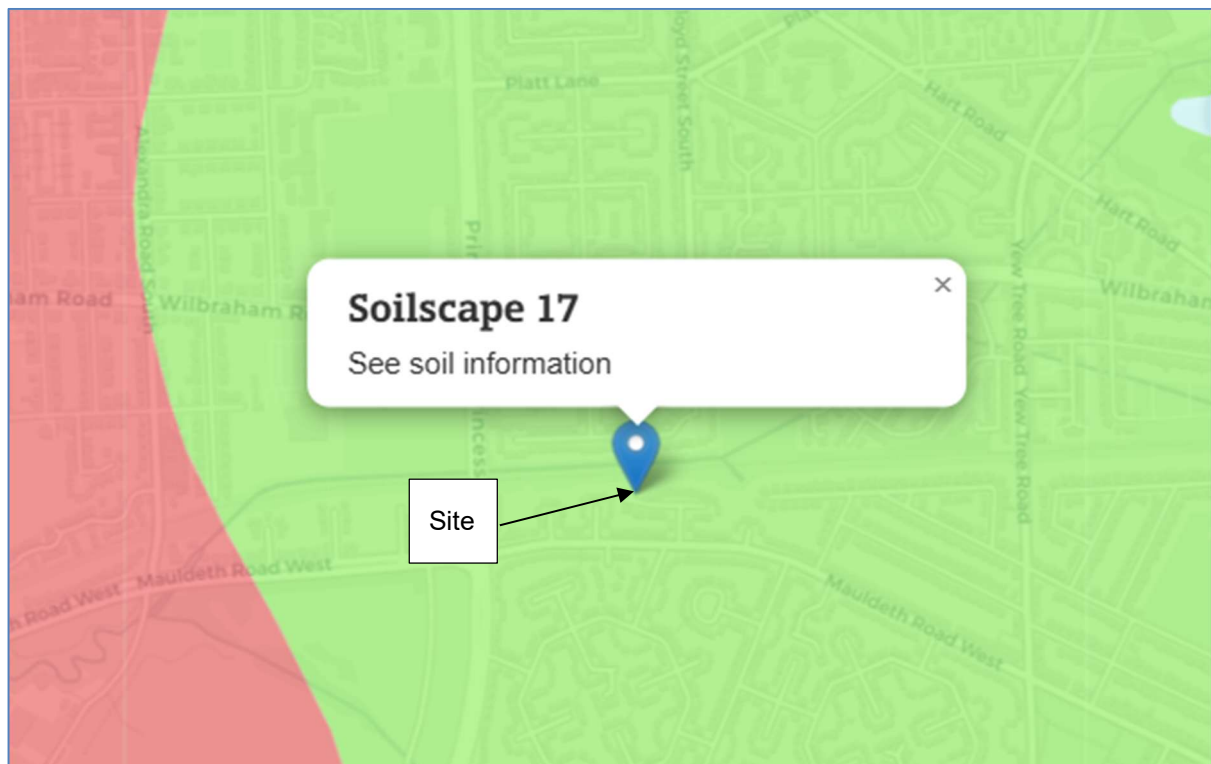


Figure 8 Soilsapes Map

The GOV UK website suggests that flooding from groundwater is “unlikely” in the area. Groundwater flood risk is therefore considered low.

3.6 Flood Risk Assessment Summary

Table 6 below provides a summary of each potential sources of flood risk.

Source of Flood Risk	Risk Potential					Justification
	High	Medium	Low	V. Low	None	
Fluvial – Main River		✓				The site is indicated to be located within Flood Zone 2.
Pluvial – Surface Water		✓				The site is located in an area indicated as medium risk of pluvial flooding
Reservoirs and Artificial Water Bodies		✓				The site is indicated to have areas a risk of flooding when river levels are normal.
Sewers			✓			The site is not considered to be at risk of flooding from sewers.
Groundwater				✓		The site is not known to be susceptible to ground water flooding.
Tidal/Coastal Flooding					✓	The site is not considered to be subject to tidal influence.

Table 9 Sources of Flood Risk

The flood resilient measures recommended within this report will further reduce the likelihood and consequence of flooding to the site and will facilitate a quicker recovery in the unlikely event of a flood.

4. Flood Risk Mitigation

The measures below detail how the proposed development will ensure that risks to the site are appropriately mitigated. Suggested mitigation also include measures to mitigate any increased flood risks to surrounding areas as a result of the proposals.

Fluvial flood risk is considered the primary source of flood risk for the proposed dwelling. The estimated defended 1% +53%CC flood level within the building footprint is 31.65mAOD from the EA's 2024 Chorlton Platt Gore Model. In accordance with DEFRA guidance, the Finished Floor Level's (FFL) will be raised to a minimum of 600mm above the estimated flood level. **All FFL's will therefore be a minimum of 32.25mAOD.**

The specified minimum FFL will require some ground. The predicted flood depths are marginal (100mm maximum) and therefore flood plain compensation is not considered necessary.

Raising the floor level should provide suitable mitigation against fluvial, reservoir and groundwater flood risks. The following mitigation measures are also recommended to increase the resilience of the proposed development and facilitate faster recovery in the unlikely event of flooding.

4.1.1 Building

- Use construction materials that have low permeability up to at least the same height as the finished floor levels (or higher if the finished floor level is not raised).
- Use a concrete floor for the proposed buildings to aid prevention of water ingress from the ground and avoid the collection of water in void spaces beneath suspended floors.
- Solid water-resistant insulation materials are used throughout the ground floor.
- Consider avoiding where possible the use of stud partition walls throughout the ground floor. Where plaster board cannot be avoided, it should be installed horizontally so that it can be replaced cost effectively if it is damaged,
- Locate service entry points into the buildings as high as practicable or seal to avoid creating points of entry for flood water.
- Raise airbricks as high as practical and consider installing airbrick covers.
- Wall tanking and DPM to be considered once the site ground water level is established.

4.1.2 Fixtures and Fittings

- All internal electrical sockets are raised as high as practical and at least 300mm above the internal Finished Floor Level.
- Where possible all electrical sockets should be wired down from the ceiling rather than up from the ground.
- All appliances used throughout the ground floor should be elevated as high as practical.

4.1.3 External Works

- The site is to be developed in accordance with the Sustainable Drainage principles outlined within the CityStruct Drainage Strategy Report reference MAC01-CTY-HGN-ZZ-RP-D-0502 to mitigate effects of pluvial flooding to and from the development.
- The Drainage Strategy includes details of how all surface water runoff will be restricted to greenfield runoff rates to mitigate effects to the UU sewer.
- External levels and kerbing layouts are to be developed to ensure that any exceedance routes from the site drainage system are routed away from any buildings. External levels to also include consideration of exceedance routes from UU and Highway Authority drainage assets.
- All external paved areas are generally to be set a minimum of 150mm below the FFL of the proposed dwelling.
- Non-return valves are to be fitted to all outfalls into the UU Sewer.

5. Flood Warning and Emergency Evacuation Plan

The site falls within the Environment Agency's Greater Manx Mersy and Ches Region who operate a flood warning service for the "Chorlton and Platt Brooks at Whalley Range and Chorlton-cum-Hardy" area.

The site occupants and operatives should sign up to the Environment Agency Flood Line Warnings Direct via <https://fwd.environment-agency.gov.uk/app/olr/register> or by calling the Flood line on 0845 988 1188 to remain vigilant of flood warnings in the area.

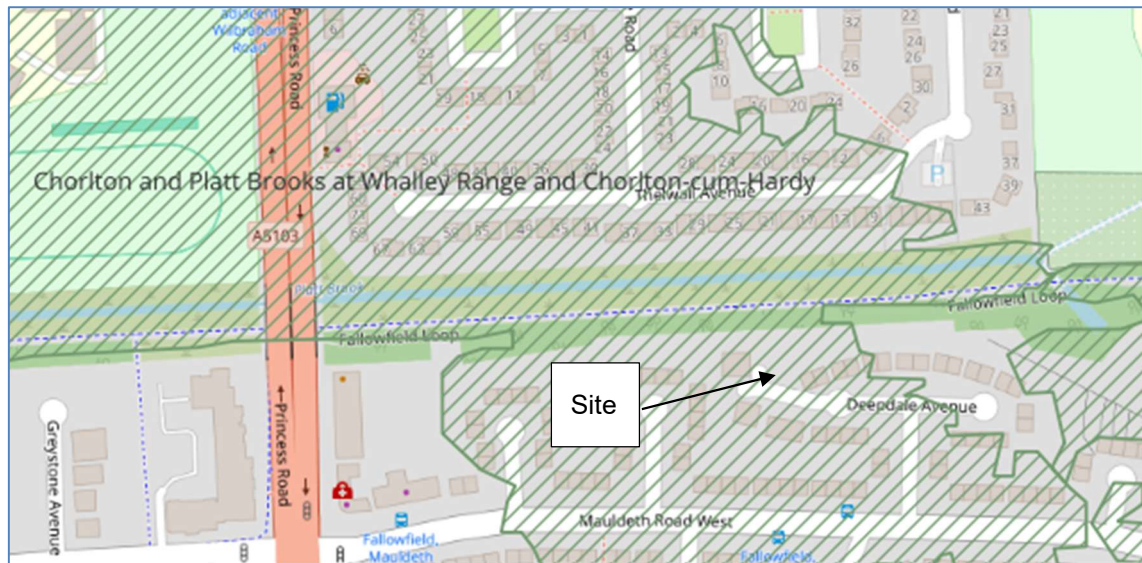


Figure 9 EA Flood Warning Areas

The site is within close proximity to the A5103 Princess Road, as can be seen in Figure 9 above and therefore a full Emergency Evacuation plan is therefore not deemed necessary.

6. Conclusion

This FRA is fully compliant with the requirements set out in both the National Planning Policy Framework (NPPF) and the Planning Practice Guidance (PPG) to the NPPF.

This FRA has considered all source of flood risk and has demonstrated that:

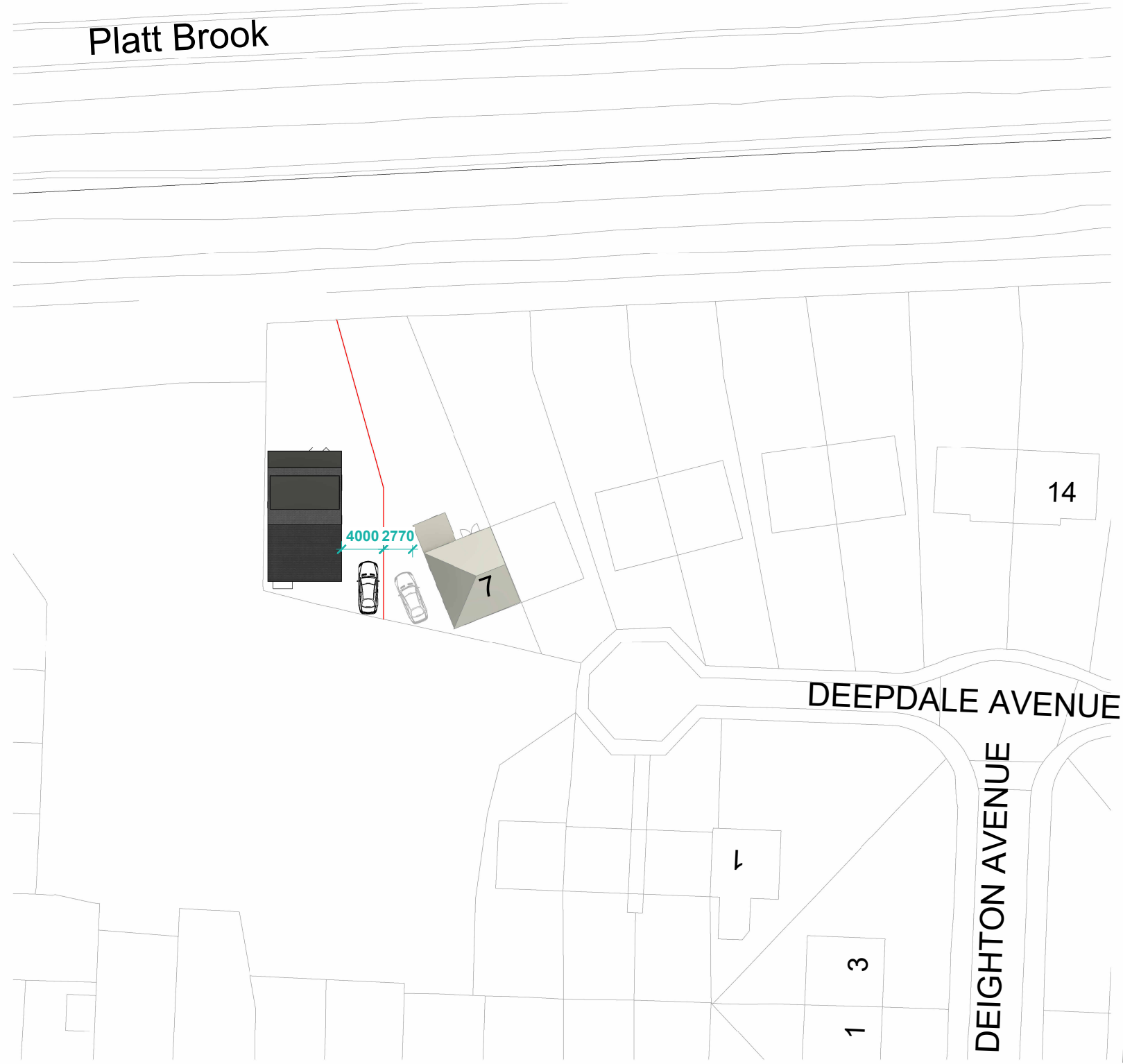
- The primary sources of flood risk to the site are fluvial flood risk Platt Brook located north of the site boundary. These risks are mitigated by situating **finished floor levels at a minimum of 32.25mAOD** which is 600mm above the design flood level.
- All measures so far as reasonably practicable to reduce flood risk to the occupants of the site have been considered and recommended within this FRA.
- The site will be developed in accordance with the Sustainable Drainage principles outlined within the CityStruct Drainage Strategy Report reference MAC01-CTY-HGN-ZZ-RP-D-0501 to mitigate effects of pluvial flooding to and from the development.



Appendix A – Proposed Drawings



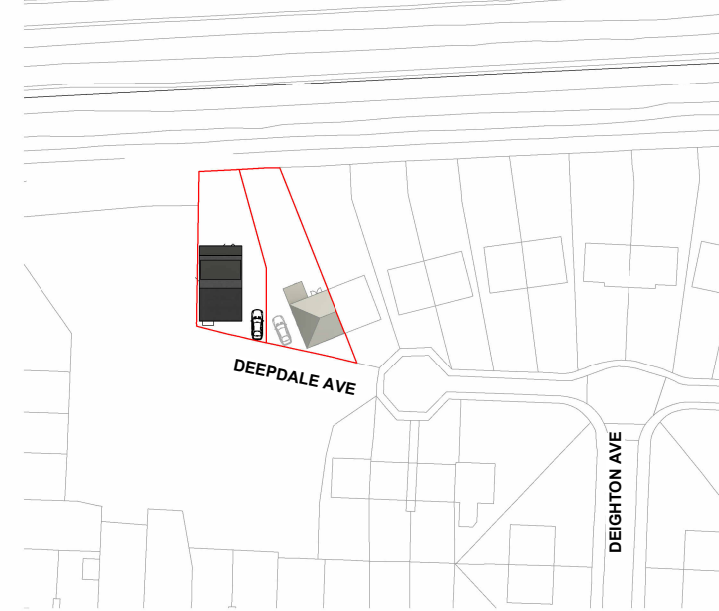
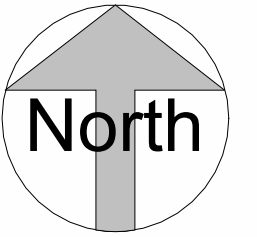
VISUAL SCALE 1:500 @ A3



Proposed Site Plan
1 : 500



VISUAL SCALE 1:1250 @ A3



Proposed Location Plan
1 : 1250



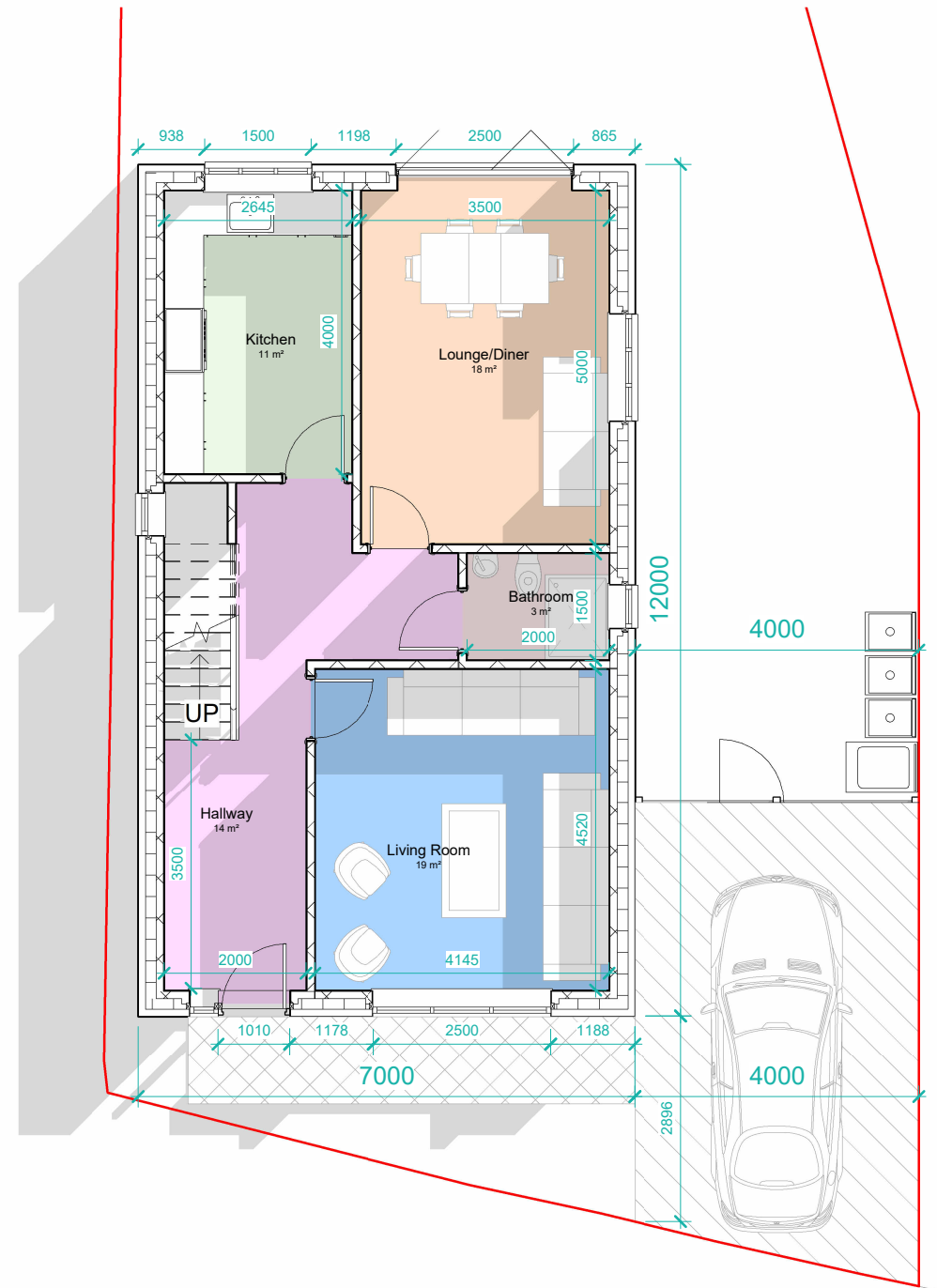
Existing level access/drop kerb to be made wider to allow for proposed driveway access.

See page A206 for boundary treatments and details.

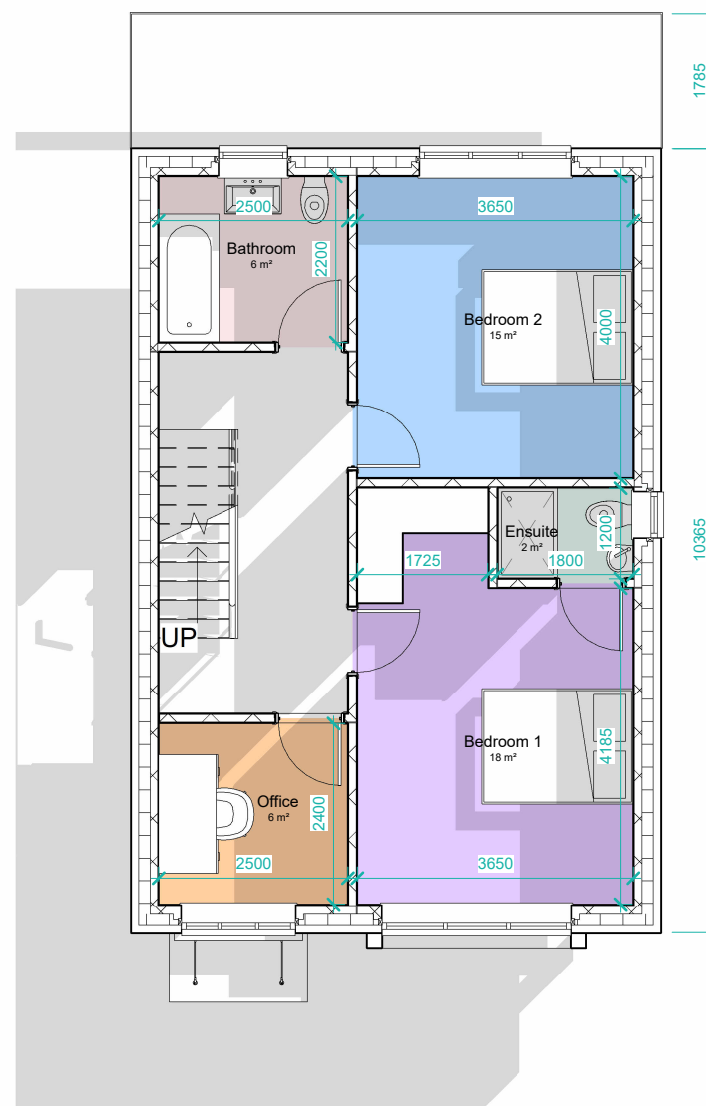
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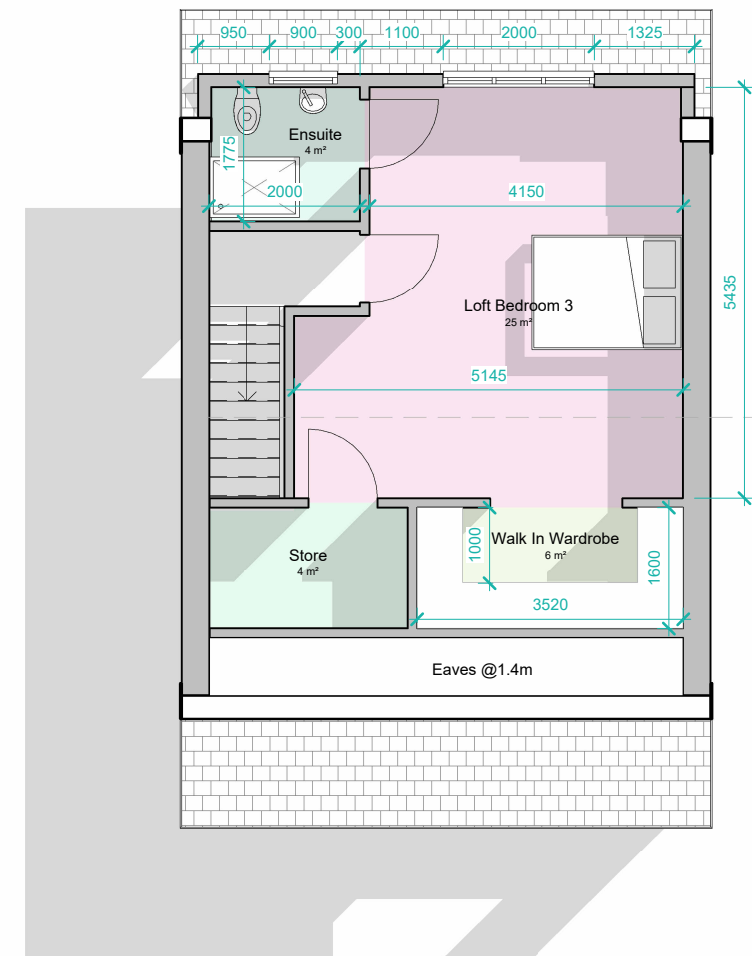
VISUAL SCALE 1:100 @ A3



PP Ground Floor
1 : 100



PP First Floor
1 : 100



PP Loft
1 : 100

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Appendix B – EA Information

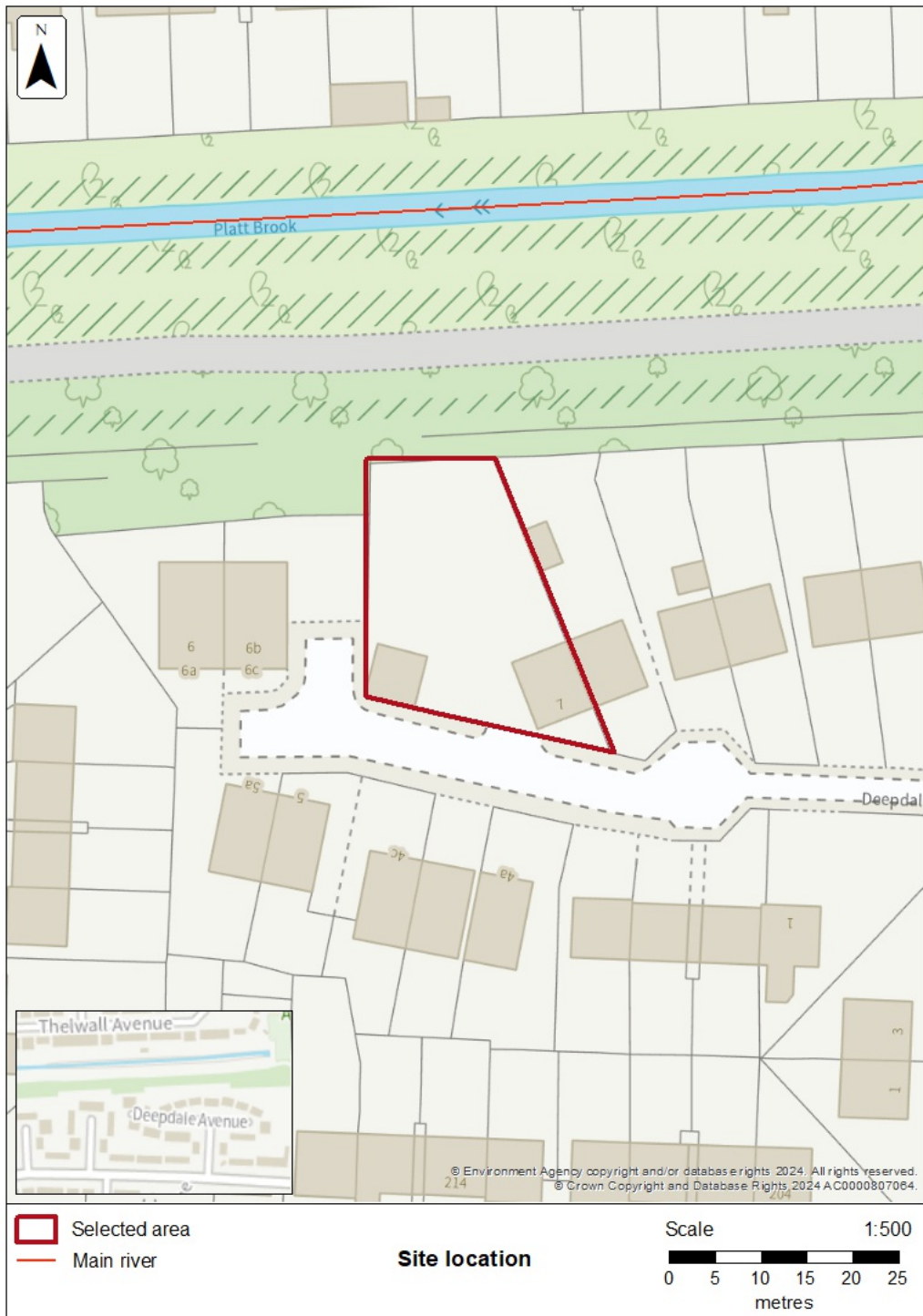
Flood risk assessment data

Location of site: 384128 / 393801 (shown as easting and northing coordinates) **Document created on:** 18 February 2025

This information was previously known as a product 4.

Customer reference number: 8U7WAEKW1B64

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



How to use this information

You can use this information as part of a flood risk assessment for a planning application. To do this, you should include it in the appendix of your flood risk assessment.

We recommend that you work with a flood risk consultant to get your flood risk assessment.

Included in this document

In this document you'll find:

- how to find information about surface water and other sources of flooding
- information on the models used
- definitions for the terminology used throughout
- flood map for planning (rivers and the sea)
- 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:

- past floods

We do not have past 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

Or you can contact your Lead Local Flood Authority for further information.

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: Chorlton Platt Gore Model 2024

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

Date: 15 April 2024

Model name: Cringle Black Brook 2017

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

Date: 1 April 2018

These models contain the most relevant data for your area of interest.

Terminology used

Annual exceedance probability (AEP)

This refers to the probability of a flood event occurring in any year. The probability is expressed as a percentage. For example, a large flood which is calculated to have a 1% chance of occurring in any one year, is described as 1% AEP.

Metres above ordnance datum (mAOD)

All flood levels are given in metres above ordnance datum which is defined as the mean sea level at Newlyn, Cornwall.

Flood map for planning (rivers and the sea)

Your selected location is in flood zone 2.

Flood zone 3 shows the area at risk of flooding for an undefended flood event with a:

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

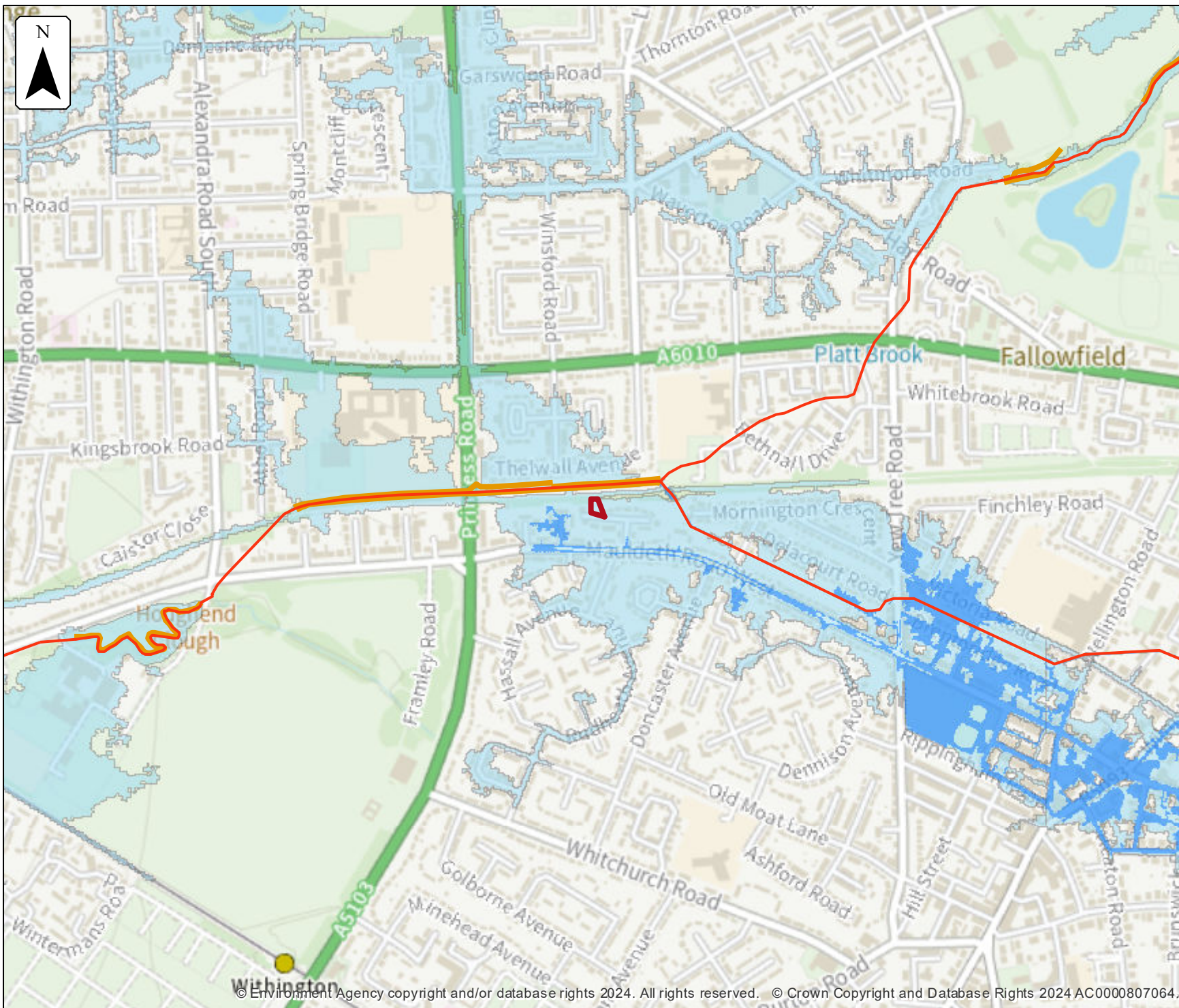
Flood zone 2 shows the area at risk of flooding for an undefended flood event with:

- between a 0.1% and 0.5% probability of occurring in any year for flooding from the sea
- between a 0.1% and 1% probability of occurring in any year for fluvial (river) flooding

It's important to remember that the flood zones on this map:

- refer to the land at risk of flooding and do not refer to individual properties
- refer to the probability of river and sea flooding, ignoring the presence of defences
- do not take into account potential impacts of climate change

The flood zones are not currently being updated. The last update was in November 2023. Some of the flood zones may have changed, however all source data is included in the models below.



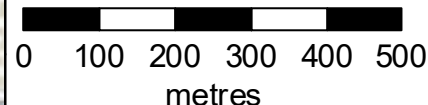
Flood map for planning

Location (easting/northing)
384128/393801

Scale
1:10,000

Created
18 Feb 2005

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



Flood defences and attributes

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

The flood defences data table shows the type of defences, their condition and the standard of protection. It shows the height above sea level of the top of the flood defence (crest level). The height is in mAOD which is the metres above the mean sea level at Newlyn, Cornwall.

It's important to remember that flood defence data may not be updated on a regular basis. The information here is based on the best available data.

Use this information:

- to help you assess if there is a reduced flood risk for this location because of defences
- with any information in the modelled data section to find out the impact of defences on flood risk



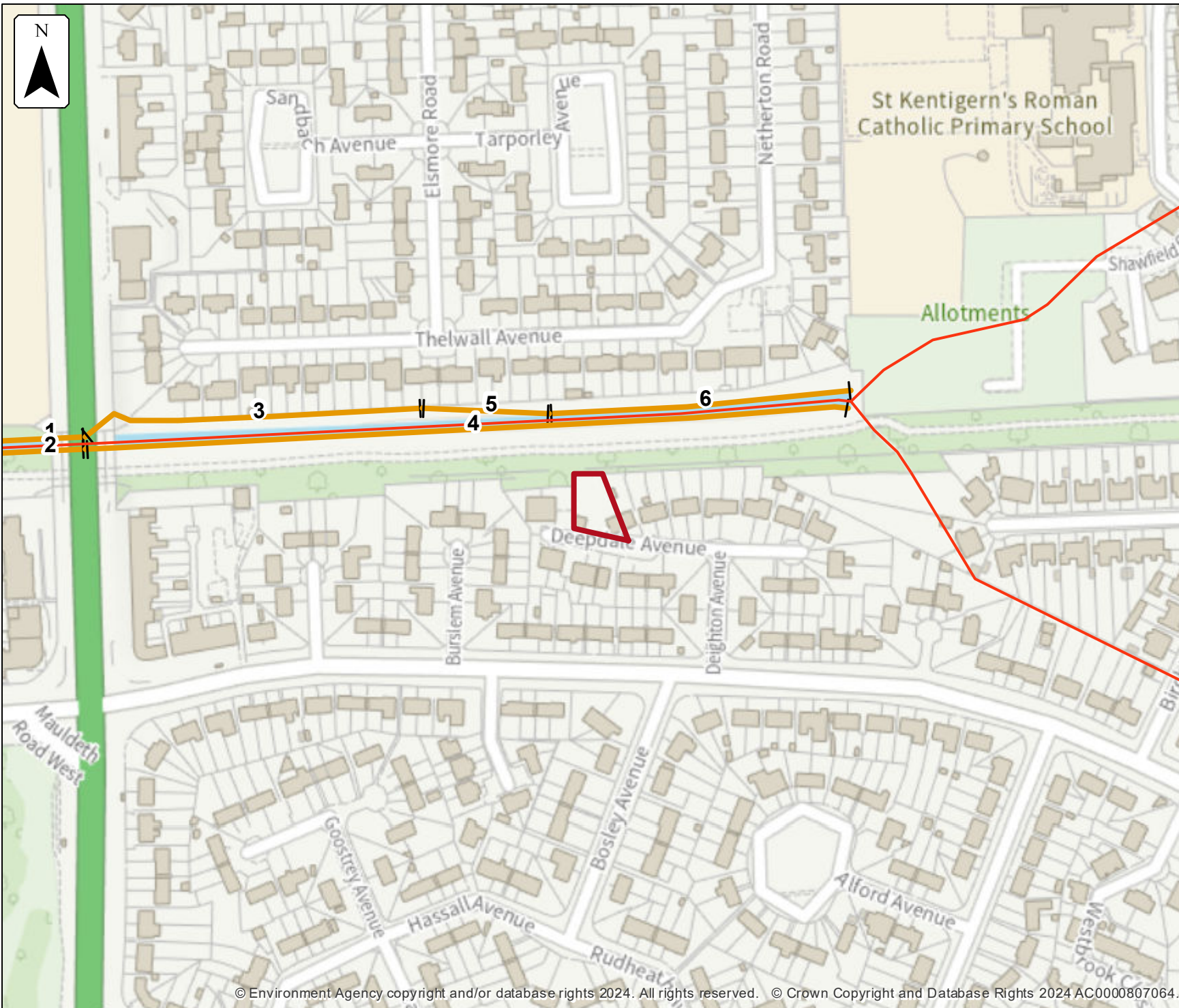
Flood defences

Location (easting/northing)
384128/393801

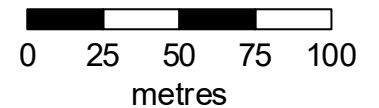
Scale
1:2,500

Created
18 Feb 2025

-  Selected area
-  Main river
-  Flood defence



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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	120082	Embankment	100		30.25	31.38	
2	32515	Embankment	100		30.29	31.52	
3	32518	Wall	100		31.48	31.84	
4	60038	Embankment	100		31.39	32.25	
5	59788	Embankment	100		31.81	32.82	
6	122064	Wall	100		31.84	31.90	

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

Modelled data

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

- outline maps showing the area at risk from flooding in different modelled scenarios
- modelled node point map(s) showing the points used to get the data to model the scenarios and table(s) providing details of the flood risk for different return periods
- map(s) showing the approximate water levels for the return period with the largest flood extent for a scenario and table(s) of sample points providing details of the flood risk for different return periods

Climate change

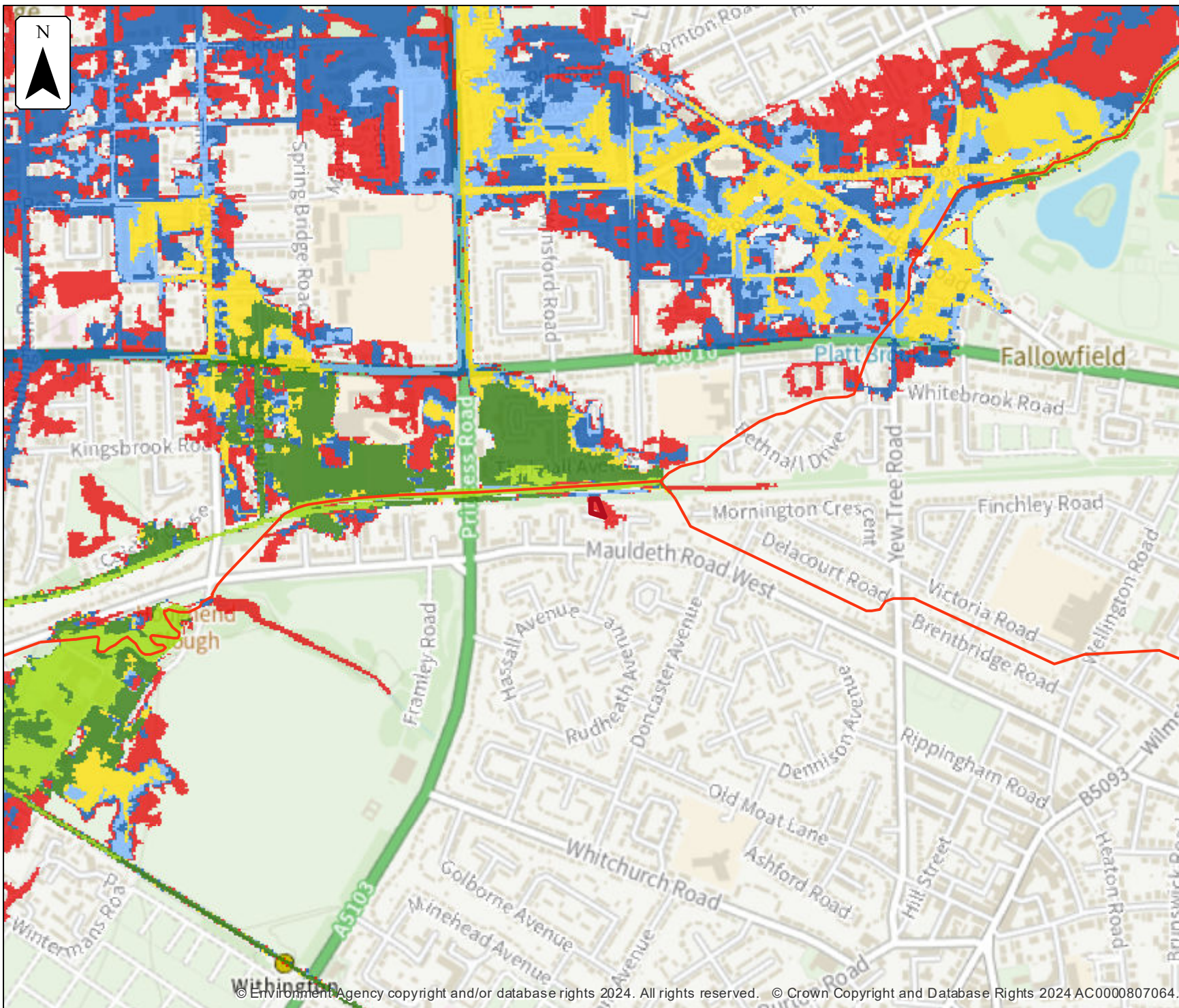
The climate change data included in the models may not include the latest [flood risk assessment climate change allowances](#). Where the new allowances are not available you will need to consider this data and factor in the new allowances to demonstrate the development will be safe from flooding.

The Environment Agency will incorporate the new allowances into future modelling studies. For now, it's your responsibility to demonstrate that new developments will be safe in flood risk terms for their lifetime.

Modelled scenarios

The following scenarios are included:

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



Defended modelled fluvial extent

Location (easting/northing)
384128/393801

Scale Created 18
1:10,000 Feb 2025

Model name
**Chorlton Platt Gore
Model 2024**

 Selected area

 Main river

Modelled flood extent

 5% AEP

 2% AEP

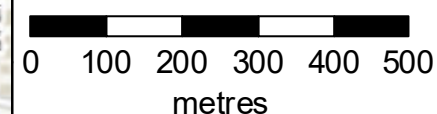
 1.33% AEP

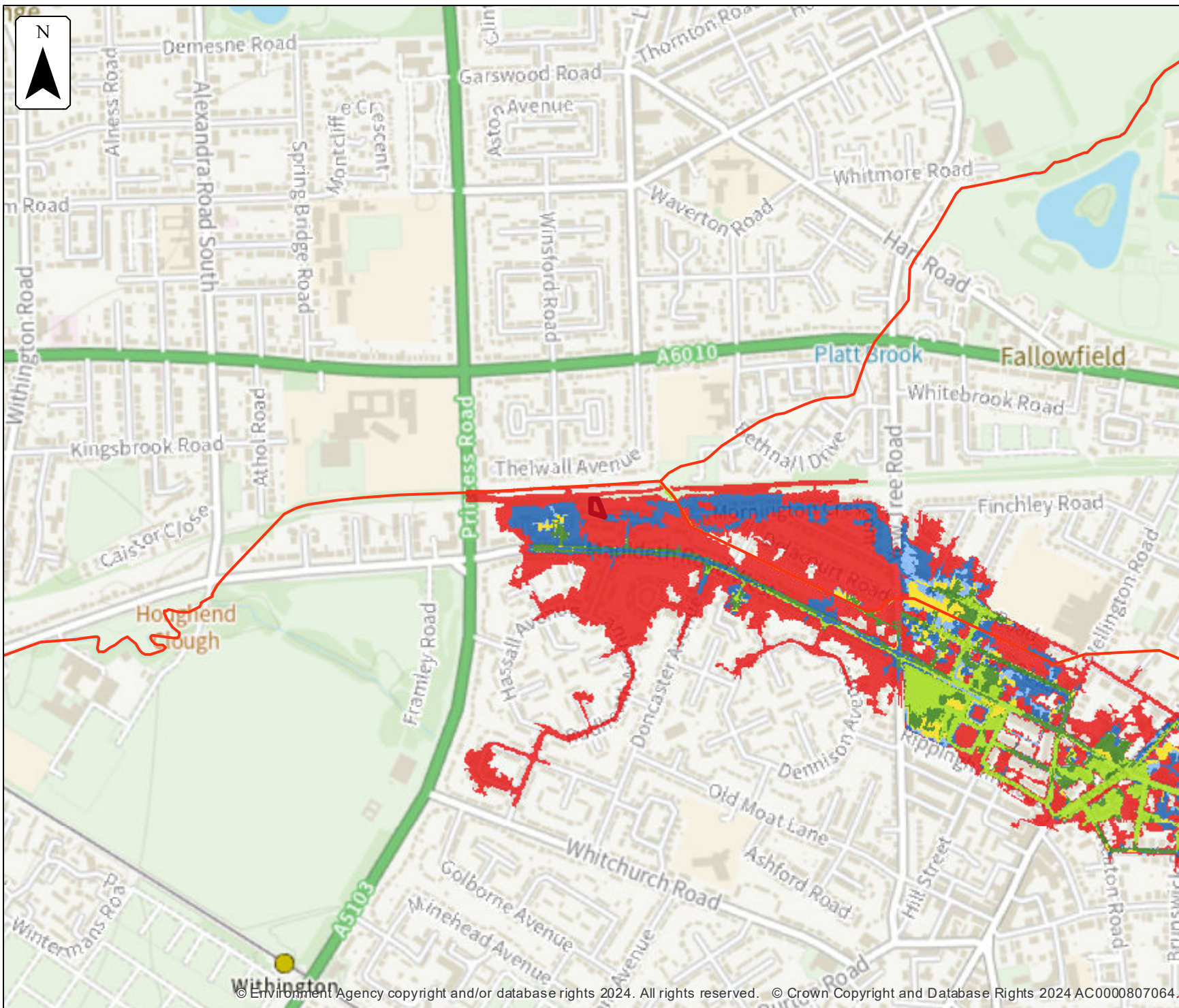
 1% AEP

 0.5% AEP

 0.1% AEP

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





Defended modelled fluvial extent

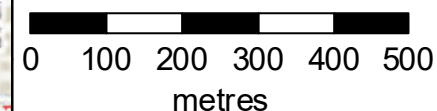
Location (easting/northing)
384128/393801

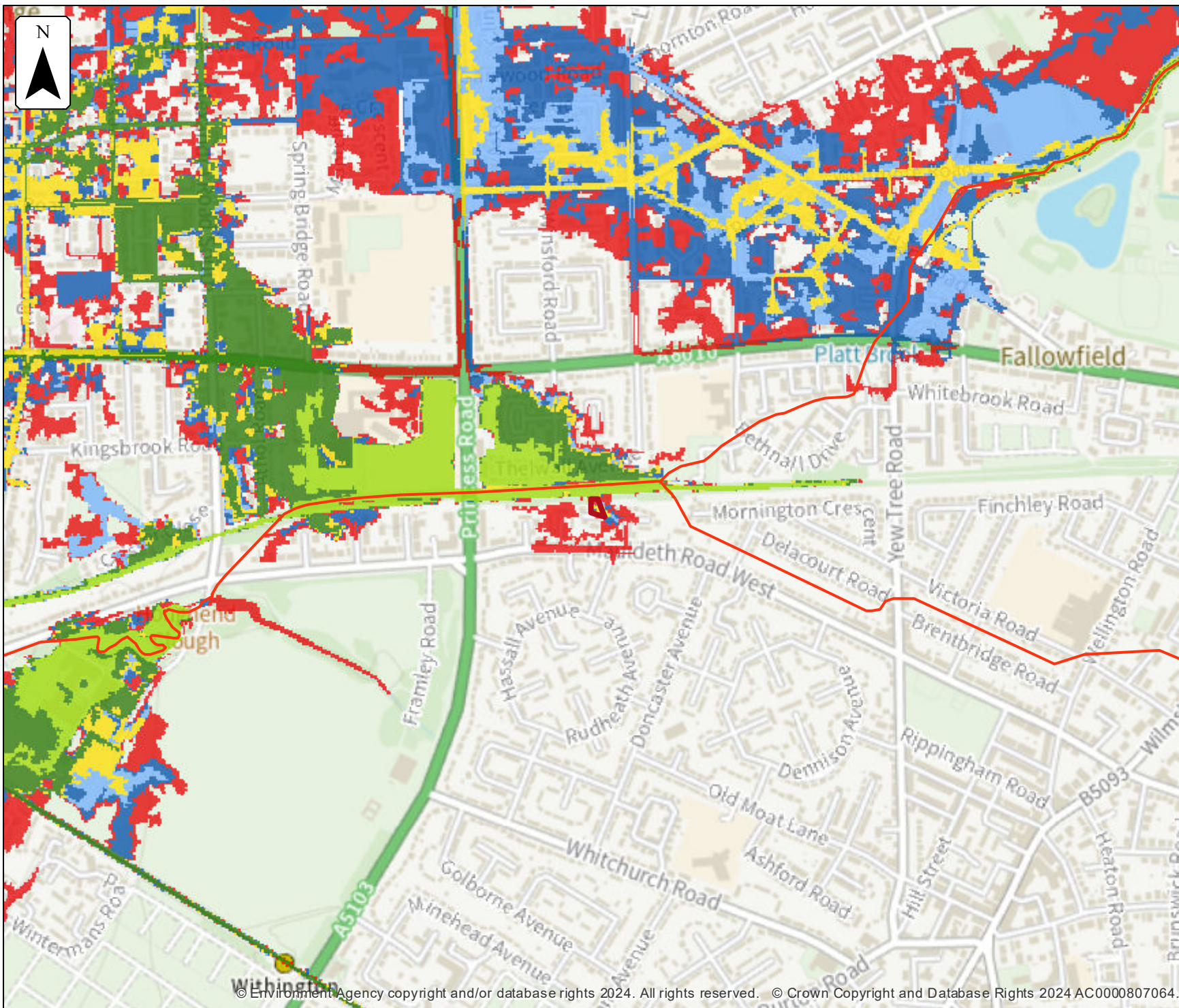
Scale Created 18
1:10,000 Feb 2025

Model name
**Cringle Black Brook
2017**

-  Selected area
-  Main river
- Modelled flood extent
-  5% AEP
 -  2% AEP
 -  1.33% AEP
 -  1% AEP
 -  0.5% AEP
 -  0.1% AEP

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





**Defences removed
modelled fluvial extent**

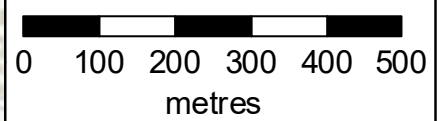
Location (easting/northing)
384128/393801

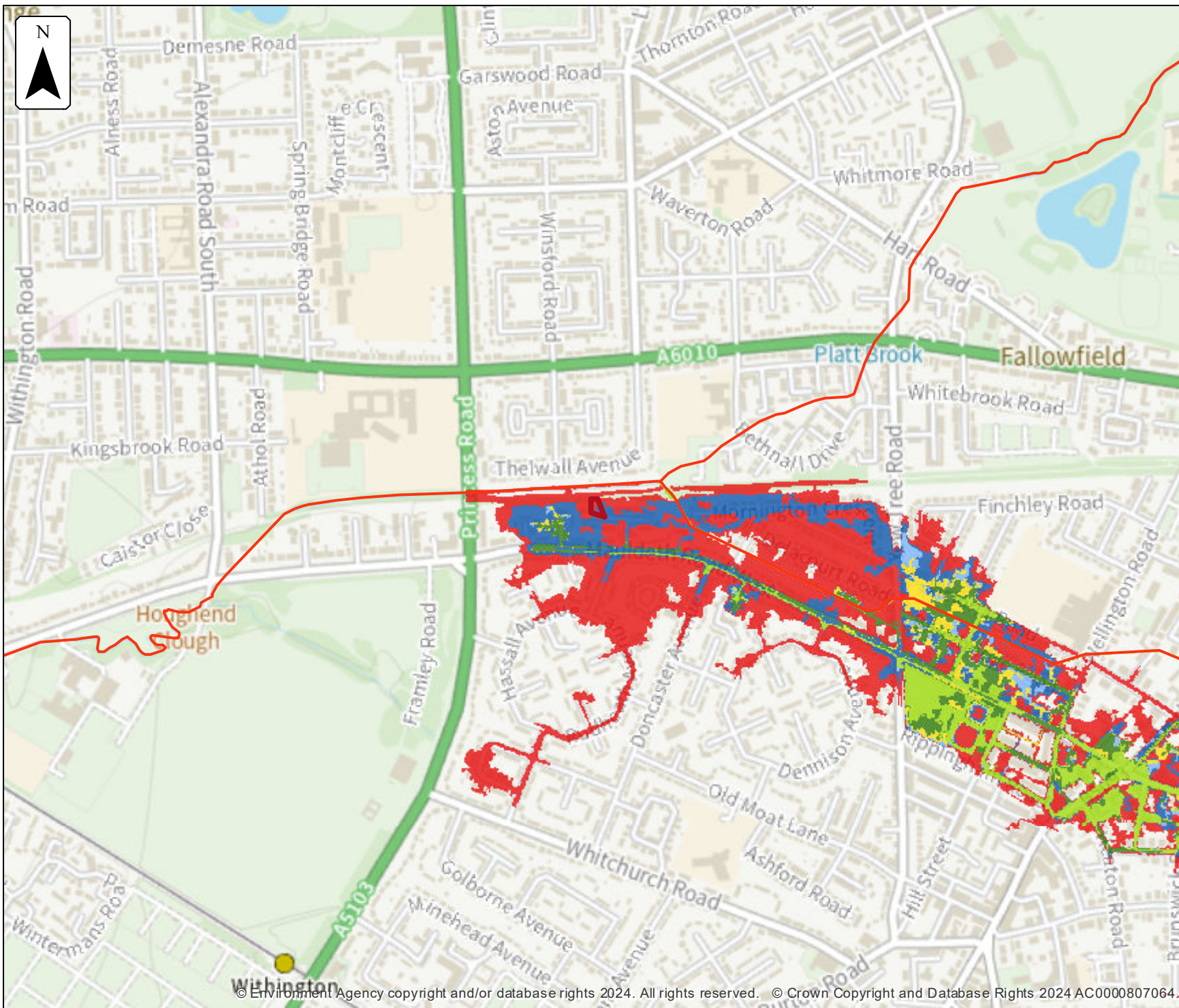
Scale Created 18
1:10,000 Feb 2025

Model name
**Chorlton Platt Gore
Model 2024**

- 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**

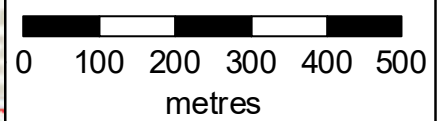
Location (easting/northing)
384128/393801

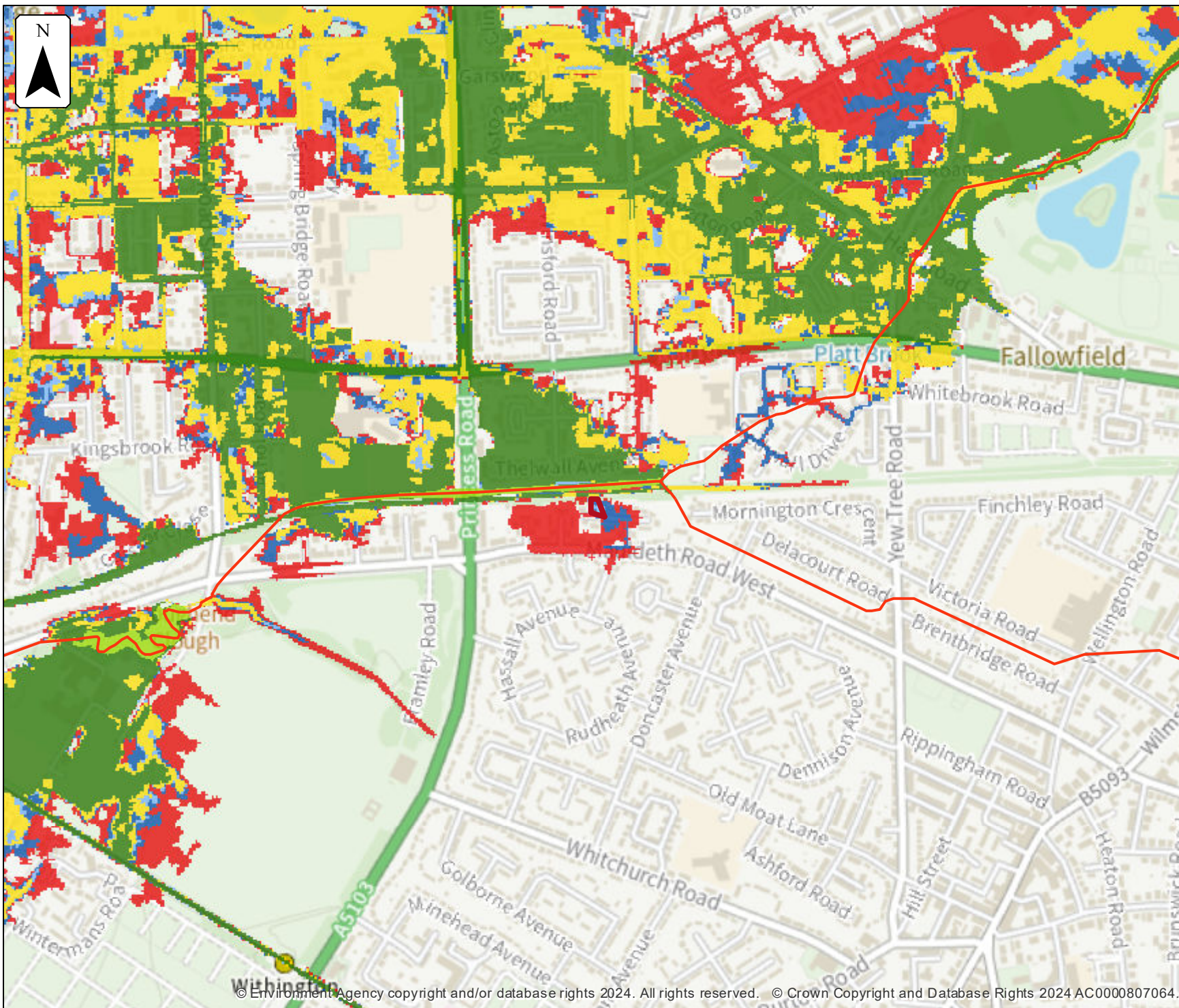
Scale Created 18
1:10,000 Feb 2025

Model name
**Cringle Black Brook
2017**

- Selected area
- Main river
- Modelled flood extent
 - 5% AEP
 - 2% AEP
 - 1.33% AEP
 - 1% AEP
 - 0.5% AEP
 - 0.1% AEP

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





Defended climate change modelled fluvial extent

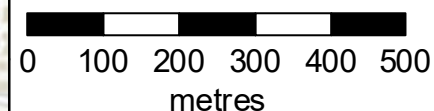
Location (easting/northing)
384128/393801

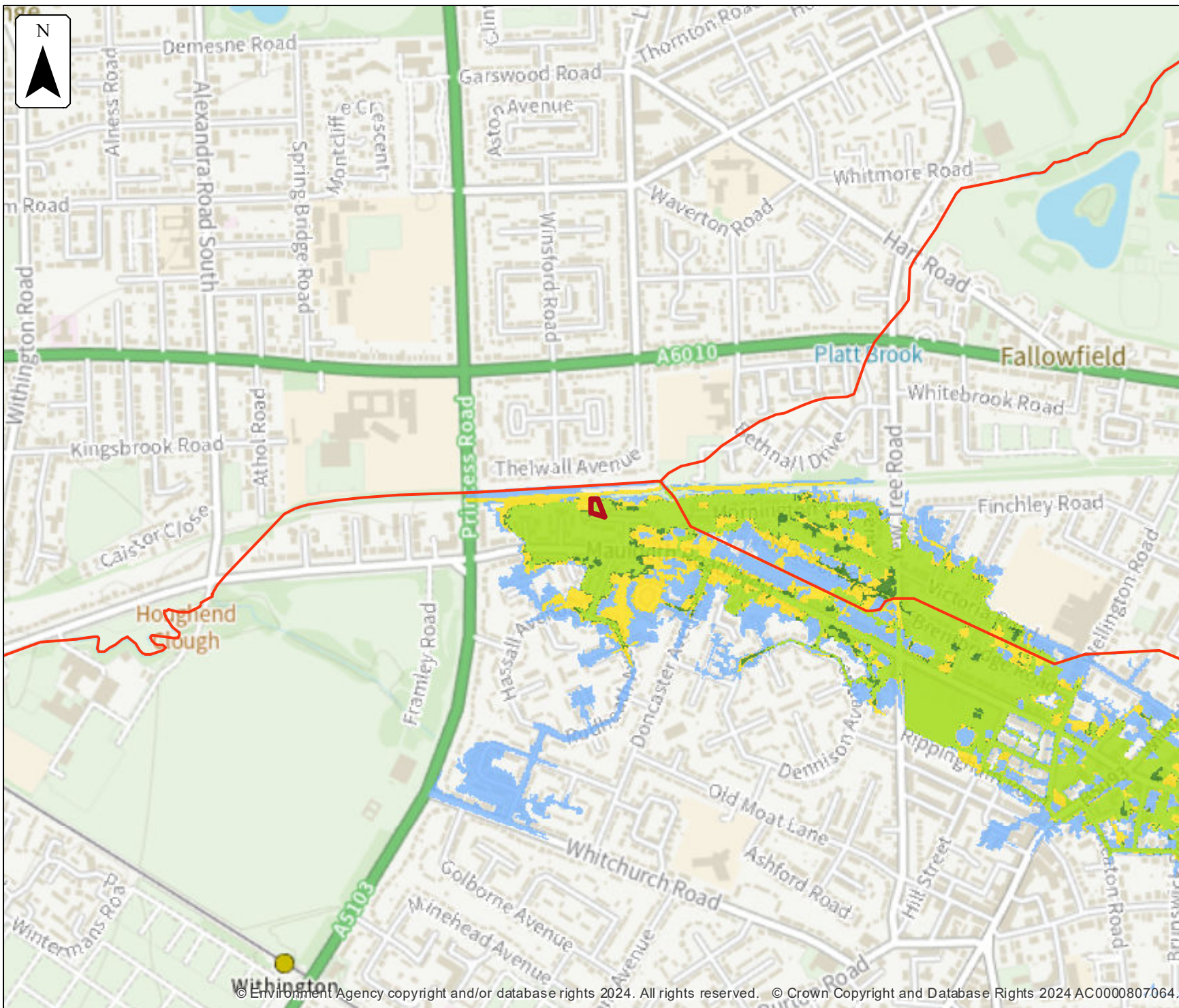
Scale Created 18
1:10,000 Feb 2025

Model name
Chorlton Platt Gore Model 2024

- Selected area
- Main river
- Modelled flood extent
- 50.0% AEP (+53%)
- 5.0% AEP (+53%)
- 1.0% AEP (+41%)
- 1.0% AEP (+53%)
- 1.0% AEP (+85%)
- 0.1% AEP (+53%)

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





Defended climate change modelled fluvial extent

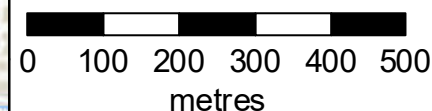
Location (easting/northing)
384128/393801

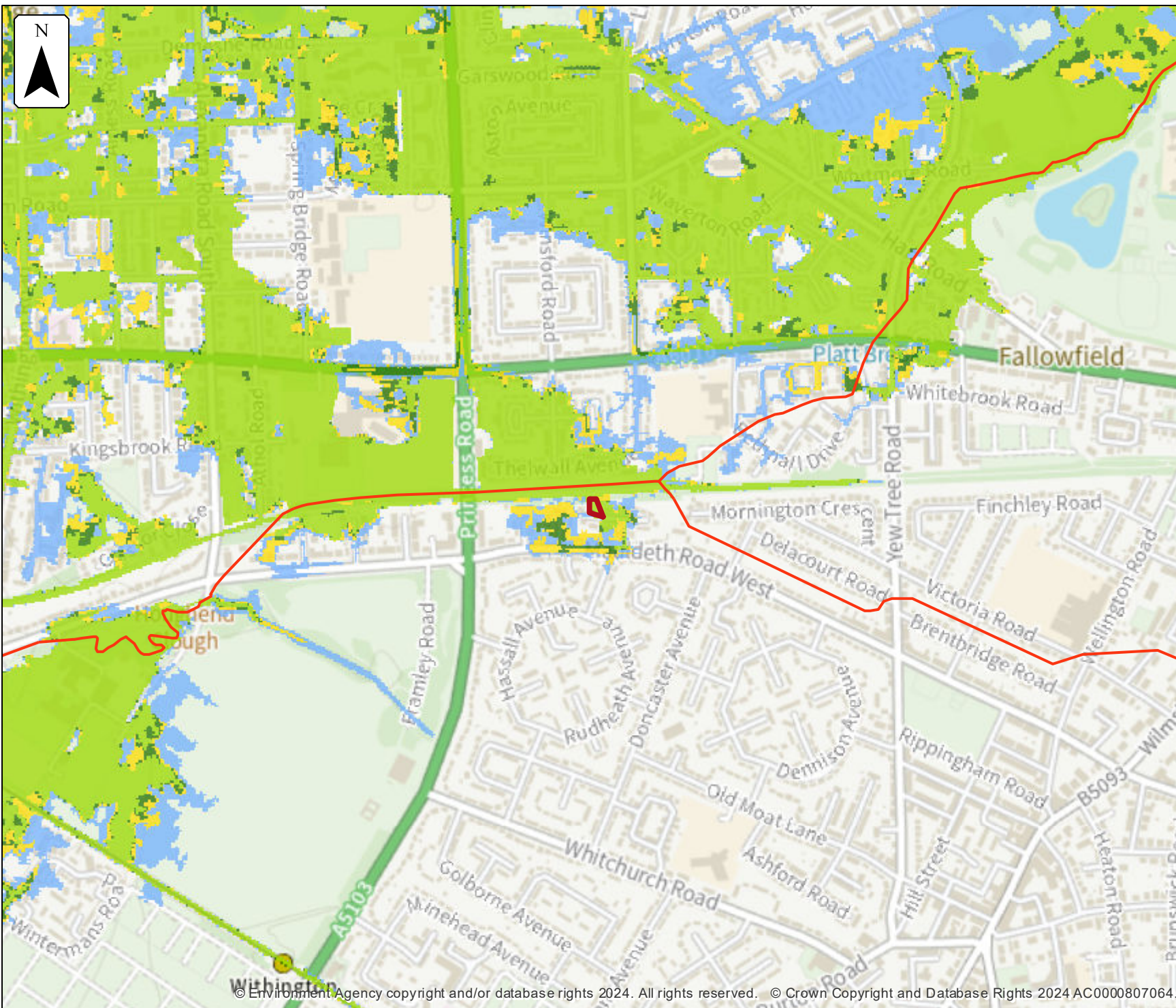
Scale Created 18
1:10,000 Feb 2025

Model name
**Cringle Black Brook
2017**

- Selected area
- Main river
- Modelled flood extent
 - 1.0% AEP (+30%)
 - 1.0% AEP (+35%)
 - 1.0% AEP (+70%)
 - 0.1% AEP (+30%)

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





Defences removed climate change modelled fluvial extent

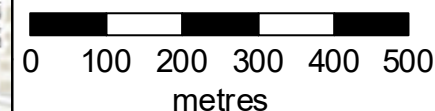
Location (easting/northing)
384128/393801

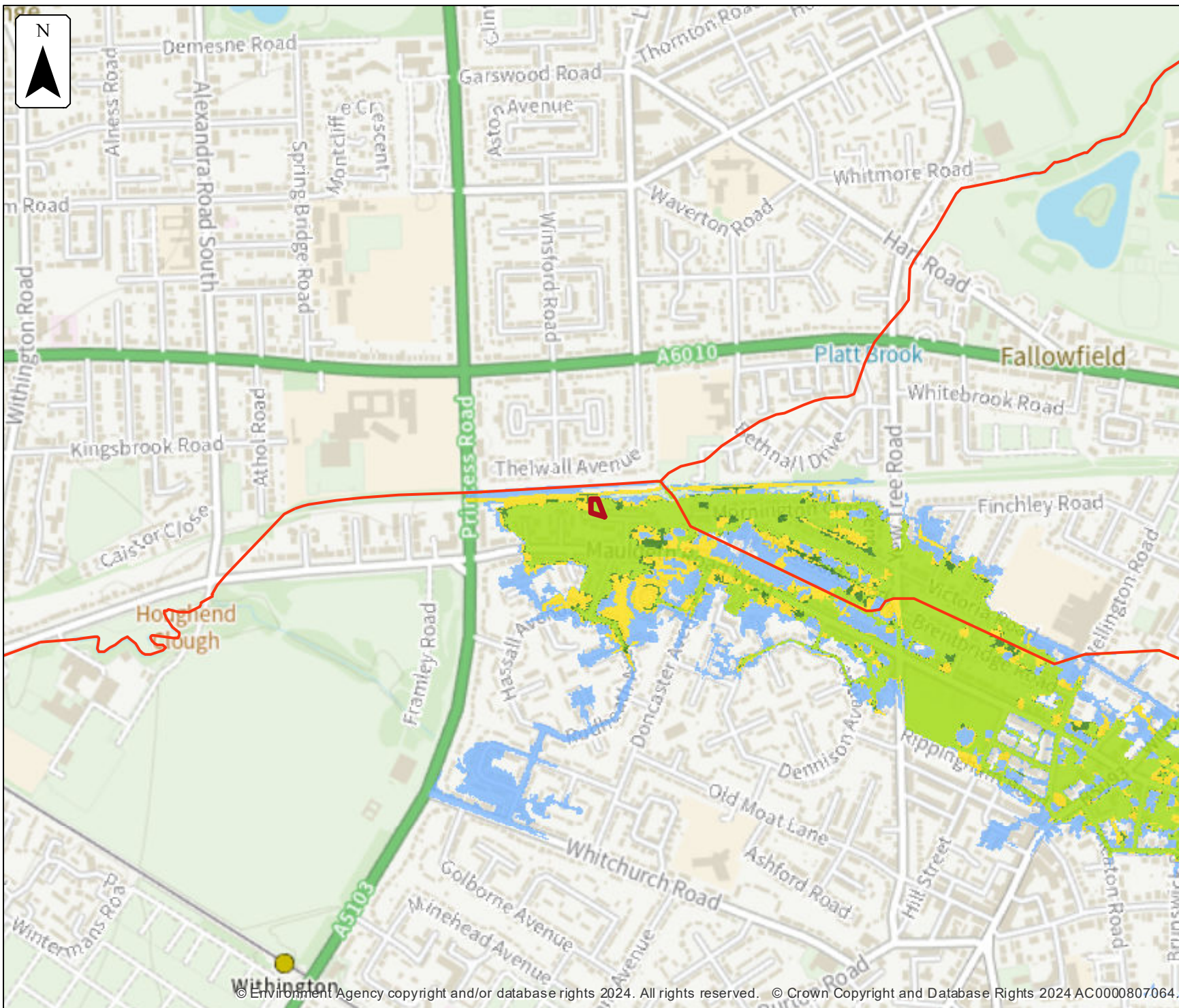
Scale Created 18
1:10,000 Feb 2025

Model name
**Chorlton Platt Gore
Model 2024**

- Selected area
- Main river
- Modelled flood extent
 - 1.0% AEP (+41%)
 - 1.0% AEP (+53%)
 - 1.0% AEP (+85%)
 - 0.1% AEP (+53%)

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





Defences removed climate change modelled fluvial extent

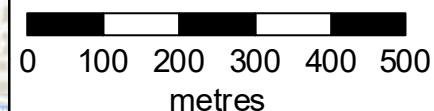
Location (easting/northing)
384128/393801

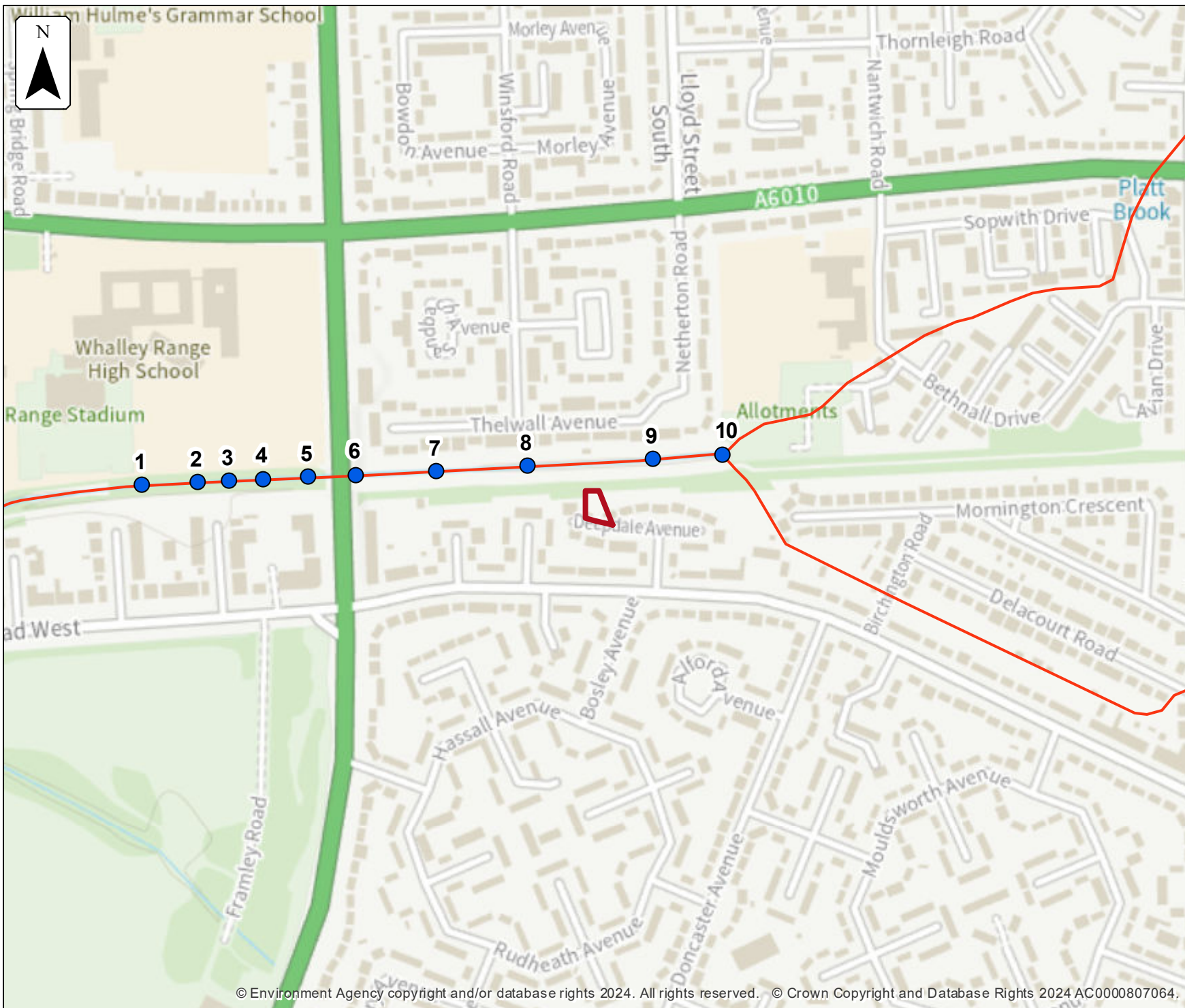
Scale Created 18
1:10,000 Feb 2025

Model name
**Cringle Black Brook
2017**

-  Selected area
-  Main river
- Modelled flood extent
 -  1.0% AEP (+30%)
 -  1.0% AEP (+35%)
 -  1.0% AEP (+70%)
 -  0.1% AEP (+30%)

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





Defended modelled fluvial node locations

Location (easting/northing)
384128/393801

Scale Created 18
1:5,000 Feb 2025

Model name
Chorlton Platt Gore Model 2024

Modelled node locations data

Defended

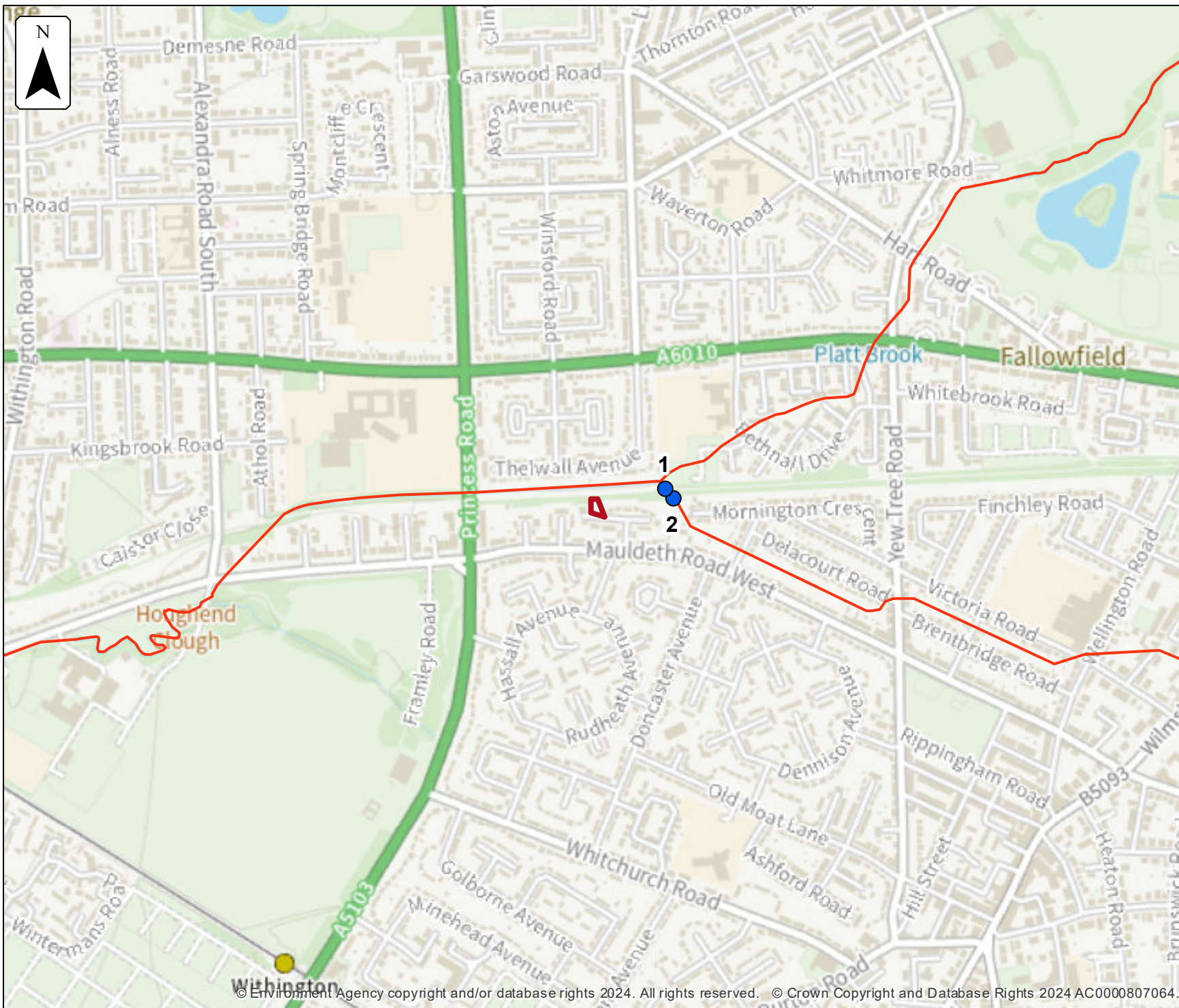
Label	Modelled location ID	Easting	Northing	50% AEP	20% AEP	10% AEP	5% AEP	3.33% AEP	2% AEP	1.33% AEP	1% AEP	0.5% AEP	0.1% AEP
				Level	Level	Level	Level	Level	Level	Level	Level	Level	Level
1	1600820	383688	393822	29.69	29.93	30.18	30.82	31.04	31.09	31.11	31.12	31.14	31.18
2	1600867	383742	393825	30.14	30.36	30.54	30.96	31.15	31.19	31.20	31.21	31.23	31.25
3	1600962	383772	393827	30.33	30.56	30.74	31.04	31.21	31.25	31.26	31.26	31.28	31.30
4	1600822	383806	393828	30.48	30.73	30.89	31.14	31.29	31.33	31.34	31.35	31.37	31.41
5	1600982	383850	393830	30.65	30.92	31.08	31.30	31.42	31.46	31.47	31.48	31.50	31.56
6	1600855	383896	393832	30.63	30.95	31.14	31.38	31.52	31.56	31.58	31.59	31.63	31.72
7	1600854	383973	393836	30.88	31.15	31.32	31.52	31.63	31.67	31.68	31.69	31.74	31.84
8	1600859	384062	393840	31.16	31.42	31.58	31.76	31.83	31.86	31.87	31.87	31.93	32.0
9	1600941	384184	393847	31.44	31.71	31.87	32.04	32.10	32.13	32.14	32.15	32.17	32.23
10	1600837	384252	393852	31.59	31.85	32.01	32.17	32.23	32.27	32.28	32.29	32.32	32.37

Data in this table comes from the Chorlton Platt Gore Model 2024 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.
If no level or flow data is available for a scenario, no table will be shown.

Defended

Label	Modelled location ID	Easting	Northing	50% AEP	20% AEP	10% AEP	5% 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
1	1600820	383688	393822	12.19	16.86	19.90	23.10	23.99	24.39	24.52	24.64	24.93	25.88
2	1600867	383742	393825	12.19	16.86	19.92	23.21	24.11	24.49	24.69	24.85	25.54	27.90
3	1600962	383772	393827	12.19	16.86	19.93	23.24	24.14	24.55	24.75	25.0	26.17	28.84
4	1600822	383806	393828	12.19	16.87	19.94	23.26	24.20	24.59	24.83	25.01	26.18	28.85
5	1600982	383850	393830	12.19	16.87	19.95	23.30	24.25	24.65	24.91	25.15	26.47	29.67
6	1600855	383896	393832	12.20	16.87	19.96	23.31	24.27	24.71	24.97	25.19	25.95	27.96
7	1600854	383973	393836	12.20	16.87	19.96	23.34	24.32	24.77	25.13	25.28	25.76	27.07
8	1600859	384062	393840	12.20	16.88	19.97	23.39	24.71	25.74	26.12	26.52	27.30	29.20
9	1600941	384184	393847	12.20	16.88	19.97	23.40	25.01	26.56	27.13	27.72	28.92	31.79
10	1600837	384252	393852	11.95	16.52	19.53	22.89	24.47	26.10	26.75	27.38	28.65	31.88

Data in this table comes from the Chorlton Platt Gore Model 2024 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.
If no level or flow data is available for a scenario, no table will be shown.



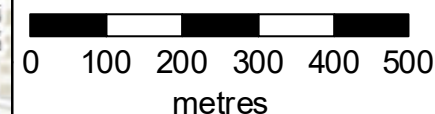
Defended modelled fluvial node locations

Location (easting/northing)
384128/393801

Scale Created 18
1:10,000 Feb 2025

Model name
**Cringle Black Brook
2017**

-  Selected area
-  Modelled location
-  Main river



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	1440128	384264	393837	31.85	31.85	31.85	31.85	31.85	31.85	31.85	31.85	31.85	31.85	31.89
2	1440127	384280	393819	31.85	31.85	31.85	31.85	31.85	31.85	31.85	31.85	31.85	31.85	31.89

Data in this table comes from the Cringle Black Brook 2017 model.
Level values are shown in mAOD, and flow values are shown in cubic metres per second.
Any blank cells show where a particular scenario has not been modelled for this location.
If no level or flow data is available for a scenario, no table will be shown.

Defended

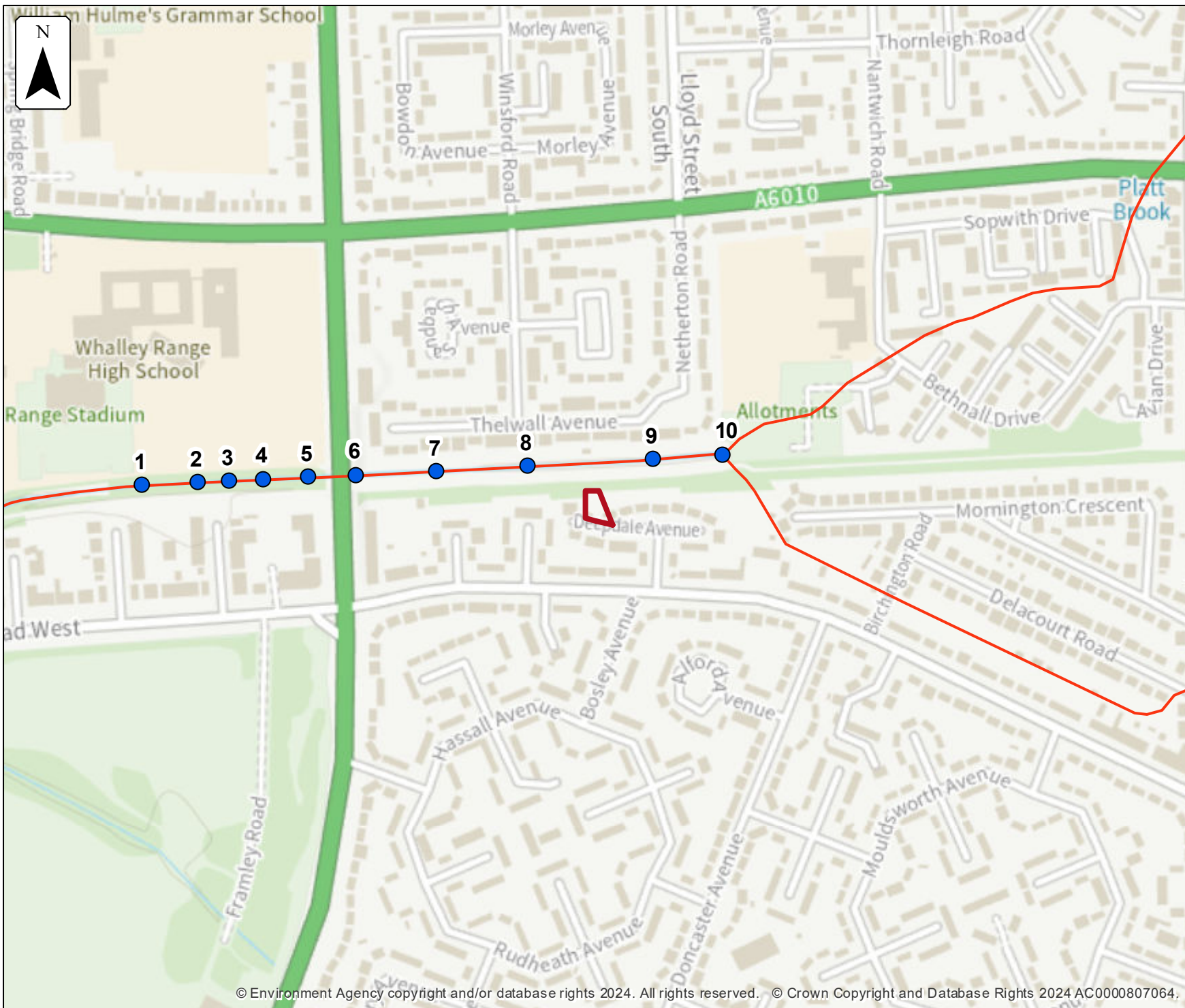
Label	Modelled location ID	Easting	Northing	50% AEP	20% AEP	10% AEP	5% AEP	4% AEP	3.33% AEP	2% AEP	1.33% AEP	1% AEP	0.5% AEP	0.1% AEP
				Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow
1	1440128	384264	393837	3.02	3.68	3.96	3.96	3.96	3.96	3.96	3.96	3.96	3.96	4.24
2	1440127	384280	393819	3.02	3.68	3.96	3.96	3.96	3.96	3.96	3.96	3.96	3.96	3.98

Data in this table comes from the Cringle Black Brook 2017 model.

Level values are shown in mAOD, and flow values are shown in cubic metres per second.

Any blank cells show where a particular scenario has not been modelled for this location.

If no level or flow data is available for a scenario, no table will be shown.



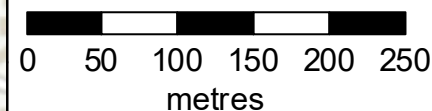
Defences removed modelled fluvial node locations

Location (easting/northing)
384128/393801

Scale Created 18
1:5,000 Feb 2025

Model name
**Chorlton Platt Gore
Model 2024**

- Selected area
- Modelled location
- Main river



Modelled node locations data

Defences removed

Label	Modelled location ID	Easting	Northing	50% AEP	20% AEP	10% AEP	5% 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
1	1600820	383688	393822	29.69	29.93	30.18	30.70	30.92	31.01	31.05	31.05	31.11	31.18
2	1600867	383742	393825	30.14	30.36	30.54	30.82	30.96	31.03	31.07	31.07	31.12	31.19
3	1600962	383772	393827	30.33	30.56	30.73	30.91	30.99	31.06	31.09	31.09	31.14	31.21
4	1600822	383806	393828	30.47	30.73	30.89	31.05	31.09	31.13	31.15	31.16	31.18	31.23
5	1600982	383850	393830	30.65	30.92	31.08	31.18	31.21	31.23	31.24	31.28	31.26	31.29
6	1600855	383896	393832	30.63	30.94	31.13	31.27	31.30	31.34	31.36	31.38	31.41	31.49
7	1600854	383973	393836	30.88	31.16	31.34	31.47	31.51	31.54	31.59	31.63	31.68	31.80
8	1600859	384062	393840	31.15	31.39	31.52	31.63	31.66	31.69	31.71	31.73	31.76	31.85
9	1600941	384184	393847	31.44	31.71	31.85	32.0	32.06	32.11	32.14	32.15	32.17	32.22
10	1600837	384252	393852	31.59	31.80	31.93	32.05	32.11	32.15	32.17	32.19	32.21	32.28

Data in this table comes from the Chorlton Platt Gore Model 2024 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.
If no level or flow data is available for a scenario, no table will be shown.

Defences removed

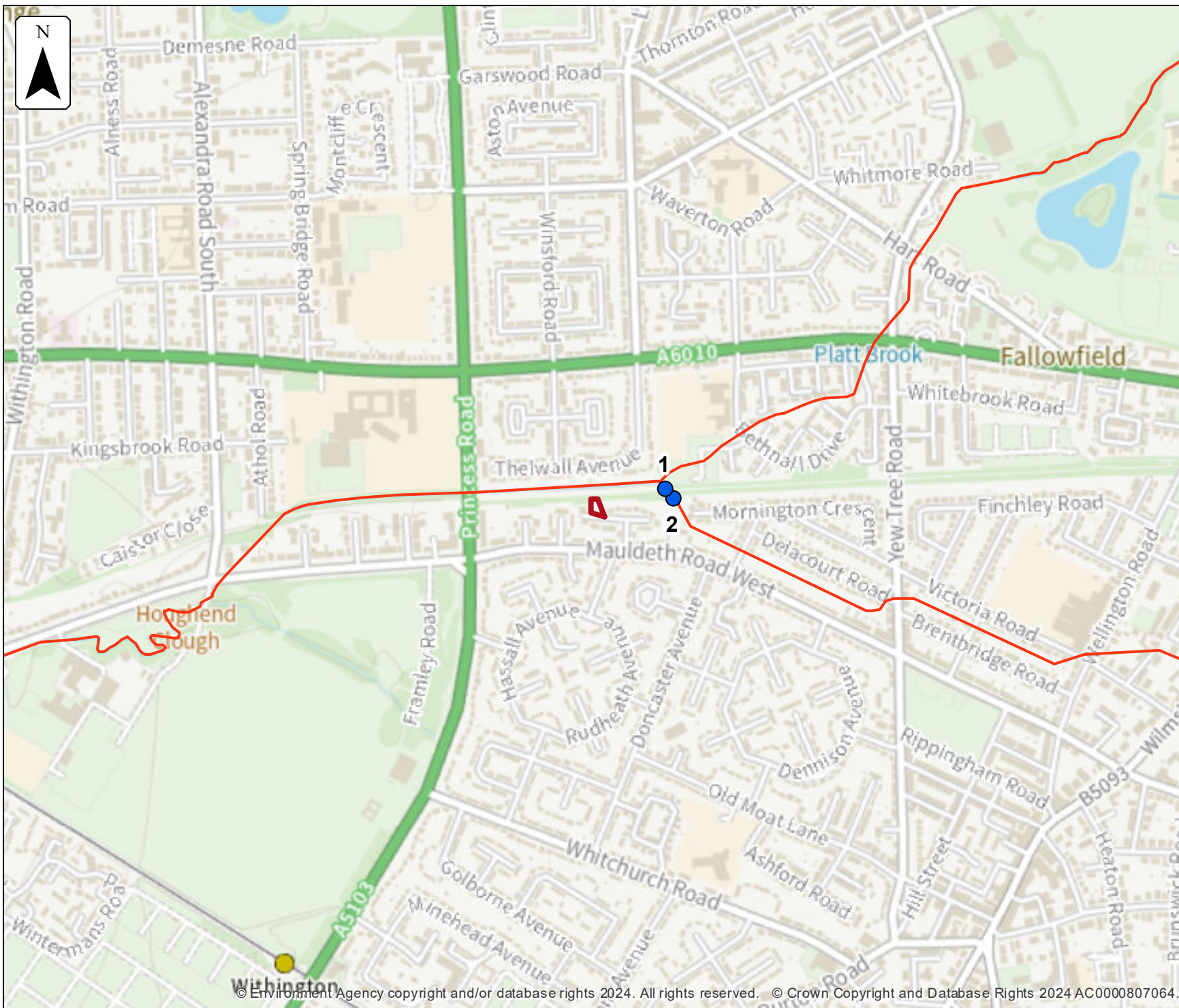
Label	Modelled location ID	Easting	Northing	50% AEP	20% AEP	10% AEP	5% AEP	3.33% AEP	2% AEP	1.33% AEP	1% AEP	0.5% AEP	0.1% AEP
				Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow
1	1600820	383688	393822	12.15	16.84	19.73	21.83	22.36	22.64	22.73	23.87	22.84	22.97
2	1600867	383742	393825	12.15	16.84	19.75	21.84	22.26	22.44	22.58	23.72	22.69	22.84
3	1600962	383772	393827	12.15	16.85	19.76	21.77	22.24	22.60	22.74	24.53	23.04	23.45
4	1600822	383806	393828	12.15	16.85	19.77	21.25	21.73	22.21	22.41	24.76	23.62	25.31
5	1600982	383850	393830	12.16	16.85	19.84	22.69	24.01	25.0	26.02	27.10	28.36	31.51
6	1600855	383896	393832	12.16	16.84	19.75	22.38	23.55	24.38	25.21	26.04	27.16	29.43
7	1600854	383973	393836	12.16	16.17	18.16	20.44	21.55	22.43	23.09	23.50	23.61	24.54
8	1600859	384062	393840	12.16	16.87	19.85	23.30	25.02	26.45	27.23	27.83	28.21	29.49
9	1600941	384184	393847	12.17	15.38	17.52	19.99	21.20	22.48	23.52	24.17	24.98	27.99
10	1600837	384252	393852	11.95	16.52	19.52	22.88	24.52	26.21	27.56	28.24	29.25	32.09

Data in this table comes from the Chorlton Platt Gore Model 2024 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.

If no level or flow data is available for a scenario, no table will be shown.



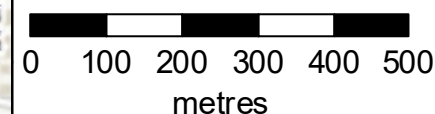
Defences removed modelled fluvial node locations

Location (easting/northing)
384128/393801

Scale Created 18
1:10,000 Feb 2025

Model name
**Cringle Black Brook
2017**

-  Selected area
-  Modelled location
-  Main river



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	1440128	384264	393837	31.85	31.85	31.85	31.85	31.85	31.85	31.85	31.85	31.85	31.85	31.89
2	1440127	384280	393819	31.85	31.85	31.85	31.85	31.85	31.85	31.85	31.85	31.85	31.85	31.89

Data in this table comes from the Cringle Black Brook 2017 model.
Level values are shown in mAOD, and flow values are shown in cubic metres per second.
Any blank cells show where a particular scenario has not been modelled for this location.
If no level or flow data is available for a scenario, no table will be shown.

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	1440128	384264	393837	3.02	3.68	3.96	3.96	3.96	3.96	3.96	3.96	3.96	3.96	4.24
2	1440127	384280	393819	3.02	3.68	3.96	3.96	3.96	3.96	3.96	3.96	3.96	3.96	3.98

Data in this table comes from the Cringle Black Brook 2017 model.

Level values are shown in mAOD, and flow values are shown in cubic metres per second.

Any blank cells show where a particular scenario has not been modelled for this location.

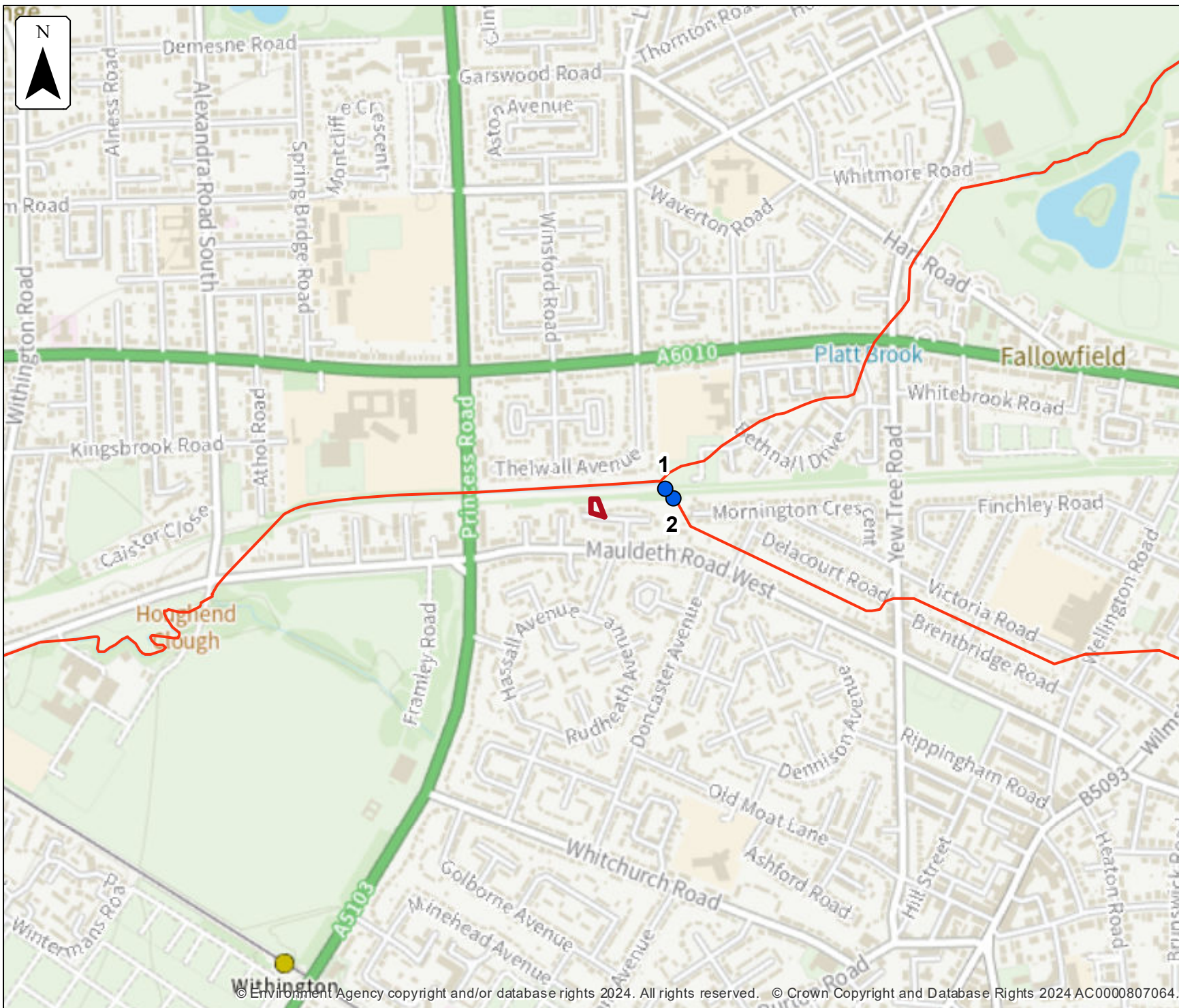
If no level or flow data is available for a scenario, no table will be shown.

Modelled node locations data

Defended climate change

Label	Modelled location ID	Easting	Northing	50% AEP (+53%)	5% AEP (+53%)	1% AEP (+41%)	1% AEP (+53%)	1% AEP (+85%)	0.1% AEP (+53%)	50% AEP (+53%)	5% AEP (+53%)	1% AEP (+41%)	1% AEP (+53%)	1% AEP (+85%)	0.1% AEP (+53%)
				Level	Level	Level	Level	Level	Level	Flow	Flow	Flow	Flow	Flow	Flow
1	1600820	383688	393822	29.97	31.12	31.16	31.16	31.18	31.23	17.47	24.61	25.37	25.62	26.14	27.13
2	1600867	383742	393825	30.39	31.21	31.24	31.24	31.24	31.28	17.47	24.77	26.66	27.13	28.13	29.78
3	1600962	383772	393827	30.59	31.27	31.29	31.29	31.30	31.32	17.47	25.03	27.36	27.88	29.08	31.34
4	1600822	383806	393828	30.76	31.35	31.39	31.39	31.41	31.45	17.48	25.03	27.36	27.87	29.09	31.36
5	1600982	383850	393830	30.95	31.48	31.53	31.54	31.56	31.61	17.48	25.17	27.83	28.46	29.96	33.05
6	1600855	383896	393832	30.98	31.59	31.67	31.69	31.73	31.81	17.48	25.21	26.89	27.28	28.13	29.92
7	1600854	383973	393836	31.18	31.69	31.78	31.80	31.85	31.95	17.48	25.30	26.35	26.62	27.17	28.0
8	1600859	384062	393840	31.45	31.87	31.96	31.97	32.01	32.06	17.48	26.55	28.14	28.51	29.35	30.71
9	1600941	384184	393847	31.74	32.16	32.20	32.21	32.23	32.28	17.49	27.77	30.07	30.64	32.03	34.97
10	1600837	384252	393852	31.89	32.30	32.34	32.35	32.37	32.41	17.11	27.41	29.89	30.54	32.19	35.98

Data in this table comes from the Chorlton Platt Gore Model 2024 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.
If no level or flow data is available for a scenario, no table will be shown.



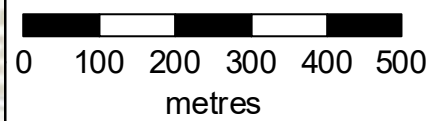
Defended climate change modelled fluvial node locations

Location (easting/northing)
384128/393801

Scale Created 18
1:10,000 Feb 2025

Model name
Cringle Black Brook 2017

-  Selected area
-  Modelled location
-  Main river

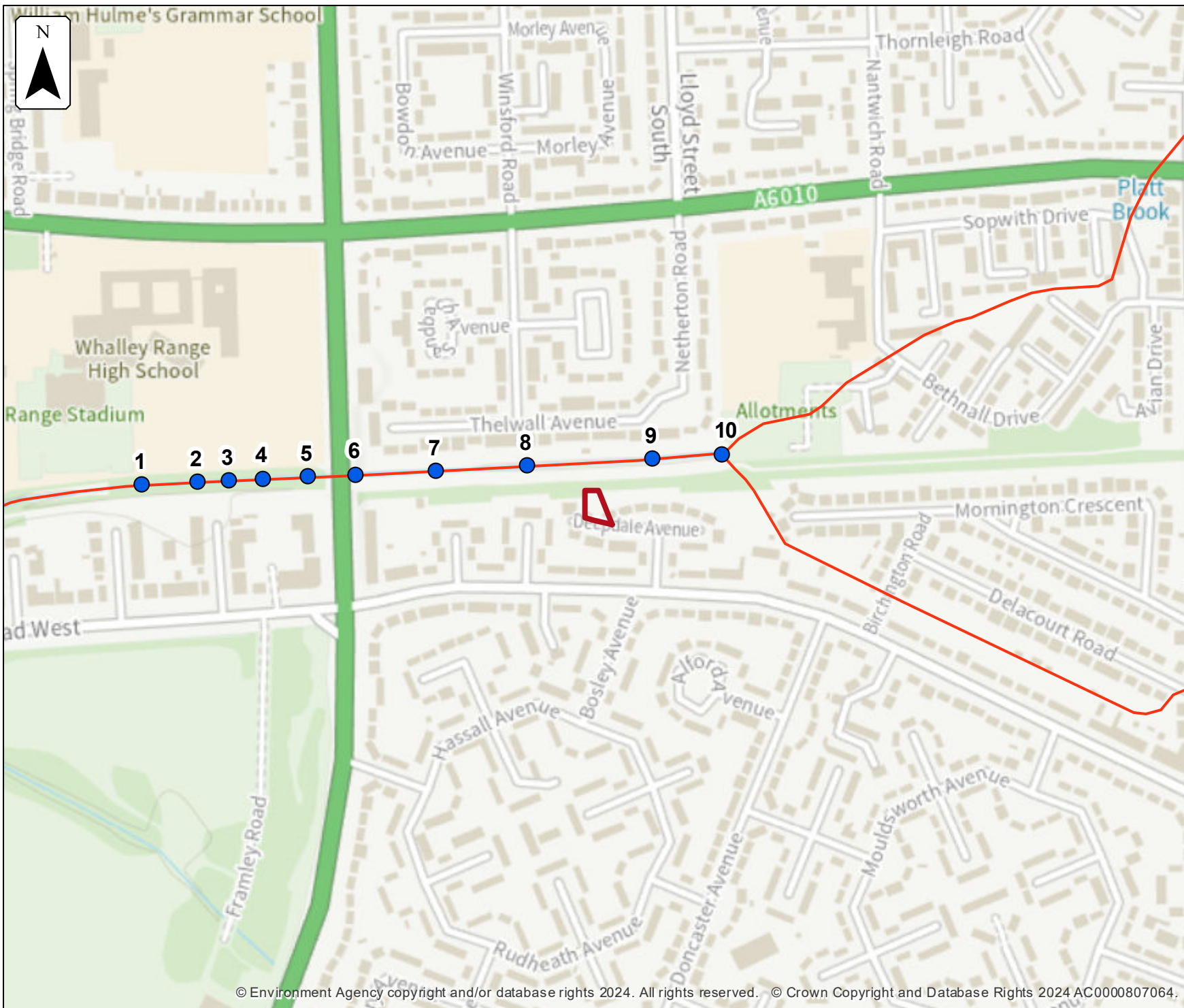


Modelled node locations data

Defended climate change

Label	Modelled location ID	Easting	Northing	1% AEP (+30%)	1% AEP (+35%)	1% AEP (+70%)	0.1% AEP (+30%)	1% AEP (+30%)	1% AEP (+35%)	1% AEP (+70%)	0.1% AEP (+30%)
				Level	Level	Level	Level	Flow	Flow	Flow	Flow
1	1440128	384264	393837	31.85	31.85	31.86	31.91	3.97	3.97	3.97	4.75
2	1440127	384280	393819	31.85	31.85	31.85	31.91	3.97	3.97	3.97	3.99

Data in this table comes from the Cringle Black Brook 2017 model.
Level values are shown in mAOD, and flow values are shown in cubic metres per second.
Any blank cells show where a particular scenario has not been modelled for this location.
If no level or flow data is available for a scenario, no table will be shown.



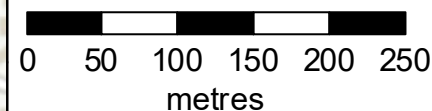
Defences removed climate change modelled fluvial node locations

Location (easting/northing)
384128/393801

Scale Created 18
1:5,000 Feb 2025

Model name
**Chorlton Platt Gore
Model 2024**

-  Selected area
-  Modelled location
-  Main river

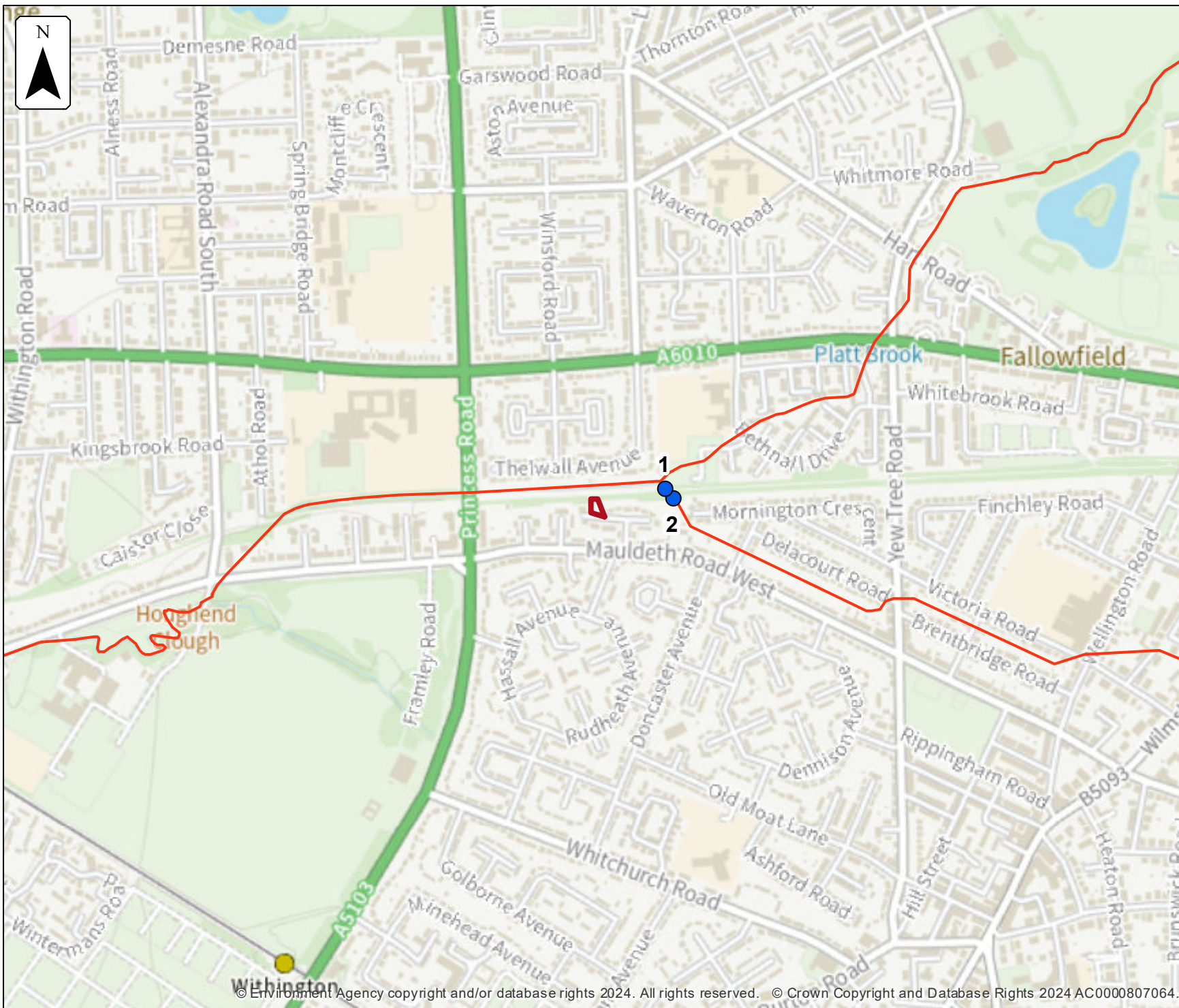


Modelled node locations data

Defences removed climate change

Label	Modelled location ID	Easting	Northing	1% AEP (+41%)	1% AEP (+53%)	1% AEP (+85%)	0.1% AEP (+53%)	1% AEP (+41%)	1% AEP (+53%)	1% AEP (+85%)	0.1% AEP (+53%)
				Level	Level	Level	Level	Flow	Flow	Flow	Flow
1	1600820	383688	393822	31.13	31.14	31.18	31.24	22.89	22.89	22.91	22.97
2	1600867	383742	393825	31.15	31.16	31.19	31.25	22.75	22.78	22.83	23.35
3	1600962	383772	393827	31.16	31.18	31.21	31.26	23.18	23.23	23.71	25.08
4	1600822	383806	393828	31.20	31.21	31.23	31.28	24.25	24.54	25.66	27.40
5	1600982	383850	393830	31.27	31.28	31.29	31.32	29.51	30.11	31.84	34.94
6	1600855	383896	393832	31.44	31.45	31.50	31.57	28.10	28.36	29.86	31.81
7	1600854	383973	393836	31.73	31.75	31.81	31.90	23.97	23.85	24.26	25.13
8	1600859	384062	393840	31.80	31.81	31.86	31.93	28.72	29.02	29.56	30.61
9	1600941	384184	393847	32.20	32.20	32.23	32.26	26.14	26.34	28.26	31.83
10	1600837	384252	393852	32.25	32.25	32.29	32.33	30.12	30.82	32.46	36.21

Data in this table comes from the Chorlton Platt Gore Model 2024 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.
If no level or flow data is available for a scenario, no table will be shown.



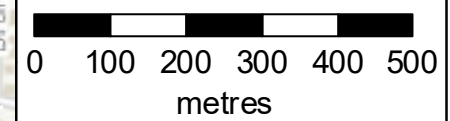
Defences removed climate change modelled fluvial node locations

Location (easting/northing)
384128/393801

Scale Created 18
1:10,000 Feb 2025

Model name
**Cringle Black Brook
2017**

- Selected area
- Modelled location
- Main river



Modelled node locations data

Defences removed climate change

Label	Modelled location ID	Easting	Northing	1% AEP (+30%)	1% AEP (+35%)	1% AEP (+70%)	0.1% AEP (+30%)	1% AEP (+30%)	1% AEP (+35%)	1% AEP (+70%)	0.1% AEP (+30%)
				Level	Level	Level	Level	Flow	Flow	Flow	Flow
1	1440128	384264	393837	31.85	31.85	31.86	31.91	3.97	3.97	3.97	4.75
2	1440127	384280	393819	31.85	31.85	31.85	31.91	3.97	3.97	3.97	3.99

Data in this table comes from the Cringle Black Brook 2017 model.
Level values are shown in mAOD, and flow values are shown in cubic metres per second.
Any blank cells show where a particular scenario has not been modelled for this location.
If no level or flow data is available for a scenario, no table will be shown.



Defended modelled fluvial extent and height

Location (easting/northing)
384128/393801

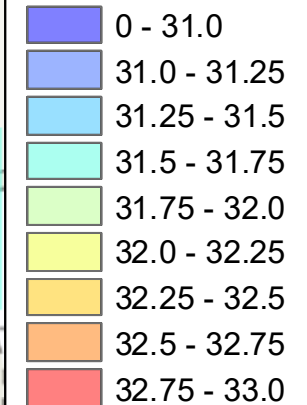
Scale Created 18
1:500 Feb 2025

Model name
**Chorlton Platt Gore
Model 2024**

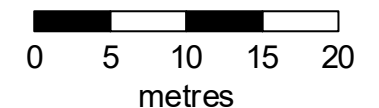
 Selected area

 Main river

Modelled 2D grid
Water level in mAOD



This map shows the
0.1% AEP height data



Sample point data

Defended

Label	Easting	Northing	50% AEP	20% AEP	10% AEP	5% AEP	3.33% AEP	2% AEP	1.33% AEP	1% AEP	0.5% AEP	0.1% AEP
			Depth	Depth	Depth	Depth	Depth	Depth	Depth	Depth	Depth	Depth
1	384128	393778	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
2	384136	393778	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
3	384144	393778	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
4	384152	393778	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.11
5	384112	393786	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
6	384120	393786	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
7	384128	393786	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
8	384136	393786	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.09
9	384144	393786	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.10
10	384152	393786	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.15
11	384112	393794	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
12	384120	393794	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
13	384128	393794	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
14	384136	393794	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.05
15	384144	393794	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.10
16	384112	393802	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData

Label	Easting	Northing	50% AEP	20% AEP	10% AEP	5% AEP	3.33% AEP	2% AEP	1.33% AEP	1% AEP	0.5% AEP	0.1% AEP
			Depth	Depth	Depth	Depth	Depth	Depth	Depth	Depth	Depth	Depth
17	384120	393802	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.10
18	384128	393802	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.05
19	384136	393802	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.08
20	384144	393802	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.10
21	384112	393810	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
22	384120	393810	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.04
23	384128	393810	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.01
24	384136	393810	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.06
25	384144	393810	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.05
26	384112	393818	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.06
27	384120	393818	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
28	384128	393818	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
29	384136	393818	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
30	384120	393826	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.56	0.69
31	384128	393826	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.49	0.62
Max value in selected area:			Could not determine	Could not determine	Could not determine	Could not determine	Could not determine	Could not determine	Could not determine	Could not determine	Could not determine	0.17

Data in this table comes from the Chorlton Platt Gore Model 2024 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.
If no height or depth data is available for a scenario, no table will be shown.
'Max value in selected area' is the deepest depth or highest height at any location within your drawn boundary.

Defended

Label	Easting	Northing	50% AEP	20% AEP	10% AEP	5% AEP	3.33% AEP	2% AEP	1.33% AEP	1% AEP	0.5% AEP	0.1% AEP
			Height	Height	Height	Height	Height	Height	Height	Height	Height	Height
1	384128	393778	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
2	384136	393778	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
3	384144	393778	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
4	384152	393778	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	31.70
5	384112	393786	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
6	384120	393786	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
7	384128	393786	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
8	384136	393786	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	31.70
9	384144	393786	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	31.70
10	384152	393786	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	31.70
11	384112	393794	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
12	384120	393794	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
13	384128	393794	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
14	384136	393794	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	31.70
15	384144	393794	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	31.70
16	384112	393802	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
17	384120	393802	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	31.73
18	384128	393802	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	31.70

Label	Easting	Northing	50% AEP	20% AEP	10% AEP	5% AEP	3.33% AEP	2% AEP	1.33% AEP	1% AEP	0.5% AEP	0.1% AEP
			Height	Height	Height	Height	Height	Height	Height	Height	Height	Height
19	384136	393802	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	31.70
20	384144	393802	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	31.70
21	384112	393810	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
22	384120	393810	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	31.79
23	384128	393810	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	31.72
24	384136	393810	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	31.70
25	384144	393810	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	31.70
26	384112	393818	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	31.94
27	384120	393818	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
28	384128	393818	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
29	384136	393818	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
30	384120	393826	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	31.83	31.96
31	384128	393826	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	31.83	31.96
Max value in selected area:			Could not determine	Could not determine	Could not determine	Could not determine	Could not determine	Could not determine	Could not determine	Could not determine	Could not determine	31.87

Data in this table comes from the Chorlton Platt Gore Model 2024 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.

If no height or depth data is available for a scenario, no table will be shown.

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



Defences removed modelled fluvial extent and height

Location (easting/northing)
384128/393801

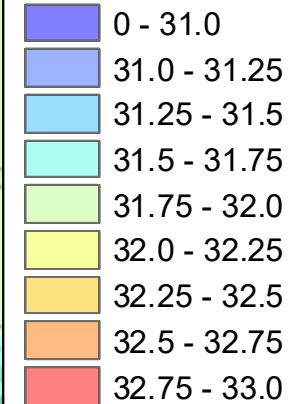
Scale Created 18
1:500 Feb 2025

Model name
**Chorlton Platt Gore
Model 2024**

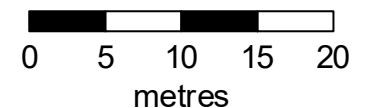
 Selected area

 Main river

Modelled 2D grid
Water level in mAOD



This map shows the
0.1% AEP height data



Sample point data

Defences removed

Label	Easting	Northing	50% AEP	20% AEP	10% AEP	5% AEP	3.33% AEP	2% AEP	1.33% AEP	1% AEP	0.5% AEP	0.1% AEP
			Depth	Depth	Depth	Depth	Depth	Depth	Depth	Depth	Depth	Depth
1	384128	393778	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
2	384136	393778	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
3	384144	393778	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.12
4	384152	393778	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.09	0.17
5	384112	393786	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
6	384120	393786	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
7	384128	393786	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.04
8	384136	393786	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.07	0.15
9	384144	393786	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.16
10	384152	393786	NoData	NoData	NoData	NoData	NoData	NoData	0.01	0.07	0.13	0.21
11	384112	393794	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
12	384120	393794	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
13	384128	393794	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.08
14	384136	393794	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.11
15	384144	393794	NoData	NoData	NoData	NoData	NoData	NoData	0.01	0.03	0.07	0.16
16	384112	393802	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData

Label	Easting	Northing	50% AEP	20% AEP	10% AEP	5% AEP	3.33% AEP	2% AEP	1.33% AEP	1% AEP	0.5% AEP	0.1% AEP
			Depth	Depth	Depth	Depth	Depth	Depth	Depth	Depth	Depth	Depth
17	384120	393802	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.09	0.12
18	384128	393802	NoData	NoData	NoData	NoData	NoData	NoData	0.00	0.01	0.03	0.10
19	384136	393802	NoData	NoData	NoData	NoData	NoData	NoData	0.01	0.02	0.06	0.14
20	384144	393802	NoData	NoData	NoData	NoData	NoData	NoData	0.03	0.04	0.08	0.16
21	384112	393810	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
22	384120	393810	NoData	NoData	NoData	NoData	NoData	NoData	0.01	0.01	0.02	0.06
23	384128	393810	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.06
24	384136	393810	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.04	0.12
25	384144	393810	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.00	0.03	0.11
26	384112	393818	NoData	NoData	NoData	NoData	NoData	NoData	0.03	0.03	0.05	0.09
27	384120	393818	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.00
28	384128	393818	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.05
29	384136	393818	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
30	384120	393826	NoData	0.34	0.46	0.56	0.60	0.63	0.65	0.66	0.69	0.74
31	384128	393826	NoData	NoData	NoData	0.51	0.56	0.59	0.61	0.62	0.65	0.71
Max value in selected area:			Could not determine	Could not determine	Could not determine	Could not determine	Could not determine	Could not determine	0.15	0.15	0.16	0.21

Data in this table comes from the Chorlton Platt Gore Model 2024 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.
If no height or depth data is available for a scenario, no table will be shown.
'Max value in selected area' is the deepest depth or highest height at any location within your drawn boundary.

Defences removed

Label	Easting	Northing	50% AEP	20% AEP	10% AEP	5% AEP	3.33% AEP	2% AEP	1.33% AEP	1% AEP	0.5% AEP	0.1% AEP
			Height	Height	Height	Height	Height	Height	Height	Height	Height	Height
1	384128	393778	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
2	384136	393778	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
3	384144	393778	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	31.76
4	384152	393778	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	31.68	31.76
5	384112	393786	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
6	384120	393786	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
7	384128	393786	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	31.76
8	384136	393786	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	31.68	31.76
9	384144	393786	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	31.76
10	384152	393786	NoData	NoData	NoData	NoData	NoData	NoData	31.56	31.62	31.68	31.76
11	384112	393794	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
12	384120	393794	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
13	384128	393794	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	31.76
14	384136	393794	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	31.76
15	384144	393794	NoData	NoData	NoData	NoData	NoData	NoData	31.62	31.64	31.68	31.76
16	384112	393802	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
17	384120	393802	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	31.72	31.77
18	384128	393802	NoData	NoData	NoData	NoData	NoData	NoData	31.65	31.66	31.68	31.76

Label	Easting	Northing	50% AEP	20% AEP	10% AEP	5% AEP	3.33% AEP	2% AEP	1.33% AEP	1% AEP	0.5% AEP	0.1% AEP
			Height	Height	Height	Height	Height	Height	Height	Height	Height	Height
19	384136	393802	NoData	NoData	NoData	NoData	NoData	NoData	31.62	31.64	31.68	31.76
20	384144	393802	NoData	NoData	NoData	NoData	NoData	NoData	31.62	31.64	31.68	31.76
21	384112	393810	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
22	384120	393810	NoData	NoData	NoData	NoData	NoData	NoData	31.75	31.76	31.77	31.81
23	384128	393810	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	31.77
24	384136	393810	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	31.68	31.76
25	384144	393810	NoData	NoData	NoData	NoData	NoData	NoData	NoData	31.64	31.68	31.76
26	384112	393818	NoData	NoData	NoData	NoData	NoData	NoData	31.91	31.91	31.93	31.97
27	384120	393818	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	31.95
28	384128	393818	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	31.89
29	384136	393818	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
30	384120	393826	NoData	31.61	31.73	31.83	31.87	31.90	31.92	31.93	31.96	32.01
31	384128	393826	NoData	NoData	NoData	31.85	31.90	31.93	31.95	31.96	31.99	32.05
Max value in selected area:			Could not determine	Could not determine	Could not determine	Could not determine	Could not determine	Could not determine	31.79	31.84	31.85	31.89

Data in this table comes from the Chorlton Platt Gore Model 2024 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.

If no height or depth data is available for a scenario, no table will be shown.

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



Defences removed modelled fluvial extent and height

Location (easting/northing)
384128/393801

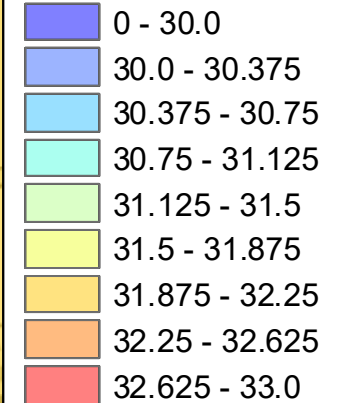
Scale Created 18
1:500 Feb 2025

Model name
**Cringle Black Brook
2017**

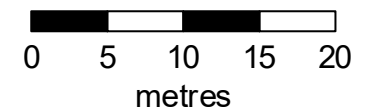
 Selected area

 Main river

Modelled 2D grid
Water level in mAOD



This map shows the
0.1% AEP height data



Sample point data

Defences removed

Label	Easting	Northing	3.33% AEP	0.5% AEP	0.1% AEP	4% AEP	1% AEP	0.1% AEP
			Depth	Depth	Depth	Height	Height	Height
1	384128	393778	NoData	0.03	0.48	NoData	NoData	32.04
2	384136	393778	NoData	0.02	0.46	NoData	NoData	32.04
3	384144	393778	NoData	0.13	0.56	NoData	NoData	32.04
4	384152	393778	NoData	0.09	0.52	NoData	NoData	32.04
5	384112	393786	NoData	NoData	0.31	NoData	NoData	32.04
6	384120	393786	NoData	NoData	0.45	NoData	NoData	32.04
7	384128	393786	NoData	NoData	0.44	NoData	NoData	32.04
8	384136	393786	NoData	0.07	0.51	NoData	NoData	32.04
9	384144	393786	NoData	0.08	0.52	NoData	NoData	32.04
10	384152	393786	NoData	0.15	0.59	NoData	NoData	32.04
11	384112	393794	NoData	NoData	0.30	NoData	NoData	32.04
12	384120	393794	NoData	NoData	0.32	NoData	NoData	32.04
13	384128	393794	NoData	NoData	0.41	NoData	NoData	32.04
14	384136	393794	NoData	NoData	0.36	NoData	NoData	32.04
15	384144	393794	NoData	0.05	0.49	NoData	NoData	32.04
16	384112	393802	NoData	NoData	0.19	NoData	NoData	32.04

Label	Easting	Northing	3.33% AEP	0.5% AEP	0.1% AEP	4% AEP	1% AEP	0.1% AEP
			Depth	Depth	Depth	Height	Height	Height
17	384120	393802	NoData	NoData	0.41	NoData	NoData	32.04
18	384128	393802	NoData	0.01	0.44	NoData	NoData	32.04
19	384136	393802	NoData	0.06	0.49	NoData	NoData	32.04
20	384144	393802	NoData	0.09	0.52	NoData	NoData	32.04
21	384112	393810	NoData	NoData	0.22	NoData	NoData	32.03
22	384120	393810	NoData	NoData	0.34	NoData	NoData	32.04
23	384128	393810	NoData	NoData	0.42	NoData	NoData	32.04
24	384136	393810	NoData	0.02	0.46	NoData	NoData	32.04
25	384144	393810	NoData	0.03	0.47	NoData	NoData	32.04
26	384112	393818	NoData	NoData	0.28	NoData	NoData	32.03
27	384120	393818	NoData	NoData	0.15	NoData	NoData	32.04
28	384128	393818	NoData	NoData	0.13	NoData	NoData	32.04
29	384136	393818	NoData	NoData	0.24	NoData	NoData	32.04
30	384120	393826	NoData	NoData	0.75	NoData	NoData	32.03
31	384128	393826	NoData	NoData	0.70	NoData	NoData	32.03
Max value in selected area:			Could not determine	0.19	0.65	Could not determine	Could not determine	32.04

Data in this table comes from the Cringle Black Brook 2017 model.
Height values are shown in mAOD, and depth values are shown in metres.
Any blank cells show where a particular scenario has not been modelled for this location.

Cells which contain text 'NoData' for a scenario show that return period has been modelled but there is no flood risk for that return period for that location.
If no height or depth data is available for a scenario, no table will be shown.
'Max value in selected area' is the deepest depth or highest height at any location within your drawn boundary.



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

Location (easting/northing)
384128/393801

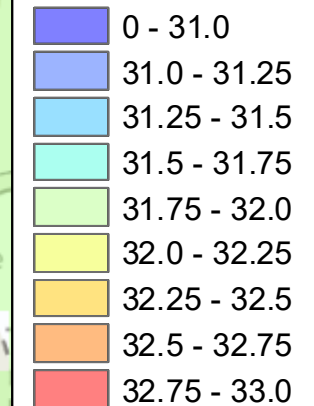
Scale Created 18
1:500 Feb 2025

Model name
**Chorlton Platt Gore
Model 2024**

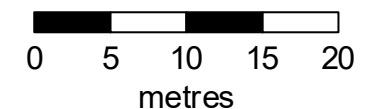
 Selected area

 Main river

Modelled 2D grid
Water level in mAOD



This map shows the
0.1% AEP +53% height data



Sample point data

Defended climate change

Label	Easting	Northing	50% AEP (+53%)	5% AEP (+53%)	1% AEP (+41%)	1% AEP (+53%)	0.1% AEP (+53%)	50% AEP (+53%)	5% AEP (+53%)	1% AEP (+41%)	1% AEP (+53%)	0.1% AEP (+53%)
			Depth	Depth	Depth	Depth	Depth	Height	Height	Height	Height	Height
1	384128	393778	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
2	384136	393778	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
3	384144	393778	NoData	NoData	NoData	NoData	0.17	NoData	NoData	NoData	NoData	31.81
4	384152	393778	NoData	NoData	NoData	NoData	0.22	NoData	NoData	NoData	NoData	31.81
5	384112	393786	NoData	NoData	NoData	NoData	0.00	NoData	NoData	NoData	NoData	31.75
6	384120	393786	NoData	NoData	NoData	NoData	0.00	NoData	NoData	NoData	NoData	31.80
7	384128	393786	NoData	NoData	NoData	NoData	0.09	NoData	NoData	NoData	NoData	31.82
8	384136	393786	NoData	NoData	NoData	NoData	0.20	NoData	NoData	NoData	NoData	31.81
9	384144	393786	NoData	NoData	NoData	NoData	0.21	NoData	NoData	NoData	NoData	31.81
10	384152	393786	NoData	NoData	NoData	NoData	0.26	NoData	NoData	NoData	NoData	31.81
11	384112	393794	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
12	384120	393794	NoData	NoData	NoData	NoData	0.04	NoData	NoData	NoData	NoData	31.81
13	384128	393794	NoData	NoData	NoData	NoData	0.13	NoData	NoData	NoData	NoData	31.82
14	384136	393794	NoData	NoData	NoData	NoData	0.17	NoData	NoData	NoData	NoData	31.82
15	384144	393794	NoData	NoData	NoData	NoData	0.21	NoData	NoData	NoData	NoData	31.82
16	384112	393802	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData

Label	Easting	Northing	50% AEP (+53%)	5% AEP (+53%)	1% AEP (+41%)	1% AEP (+53%)	0.1% AEP (+53%)	50% AEP (+53%)	5% AEP (+53%)	1% AEP (+41%)	1% AEP (+53%)	0.1% AEP (+53%)
			Depth	Depth	Depth	Depth	Depth	Height	Height	Height	Height	Height
17	384120	393802	NoData	NoData	NoData	NoData	0.18	NoData	NoData	NoData	NoData	31.82
18	384128	393802	NoData	NoData	NoData	0.00	0.15	NoData	NoData	NoData	31.65	31.82
19	384136	393802	NoData	NoData	NoData	0.01	0.20	NoData	NoData	NoData	31.62	31.82
20	384144	393802	NoData	NoData	NoData	0.02	0.21	NoData	NoData	NoData	31.61	31.82
21	384112	393810	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
22	384120	393810	NoData	NoData	NoData	0.01	0.11	NoData	NoData	NoData	31.75	31.86
23	384128	393810	NoData	NoData	NoData	NoData	0.11	NoData	NoData	NoData	NoData	31.82
24	384136	393810	NoData	NoData	NoData	NoData	0.17	NoData	NoData	NoData	NoData	31.82
25	384144	393810	NoData	NoData	NoData	NoData	0.17	NoData	NoData	NoData	NoData	31.82
26	384112	393818	NoData	NoData	NoData	0.03	0.14	NoData	NoData	NoData	31.91	32.02
27	384120	393818	NoData	NoData	NoData	NoData	0.02	NoData	NoData	NoData	NoData	31.98
28	384128	393818	NoData	NoData	NoData	NoData	0.02	NoData	NoData	NoData	NoData	31.82
29	384136	393818	NoData	NoData	NoData	NoData	0.01	NoData	NoData	NoData	NoData	31.82
30	384120	393826	NoData	NoData	0.61	0.64	0.78	NoData	NoData	31.88	31.91	32.05
31	384128	393826	NoData	NoData	0.54	0.57	0.71	NoData	NoData	31.88	31.91	32.05
Max value in selected area:			Could not determine	Could not determine	Could not determine	0.15	0.27	Could not determine	Could not determine	Could not determine	31.79	31.94

Data in this table comes from the Chorlton Platt Gore Model 2024 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.

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If no height or depth data is available for a scenario, no table will be shown.

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



**Defences removed
climate change
modelled fluvial
extent and height**

Location (easting/northing)
384128/393801

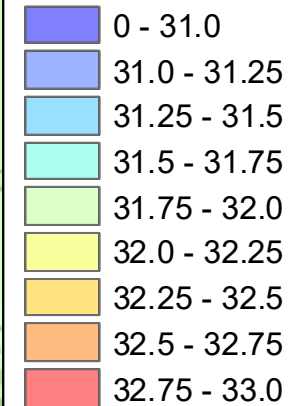
Scale Created 18
1:500 Feb 2025

Model name
**Chorlton Platt Gore
Model 2024**

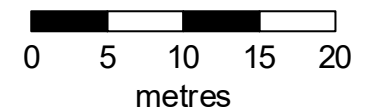
 Selected area

 Main river

Modelled 2D grid
Water level in mAOD



This map shows the
0.1% AEP +53% height data



Sample point data

Defences removed climate change

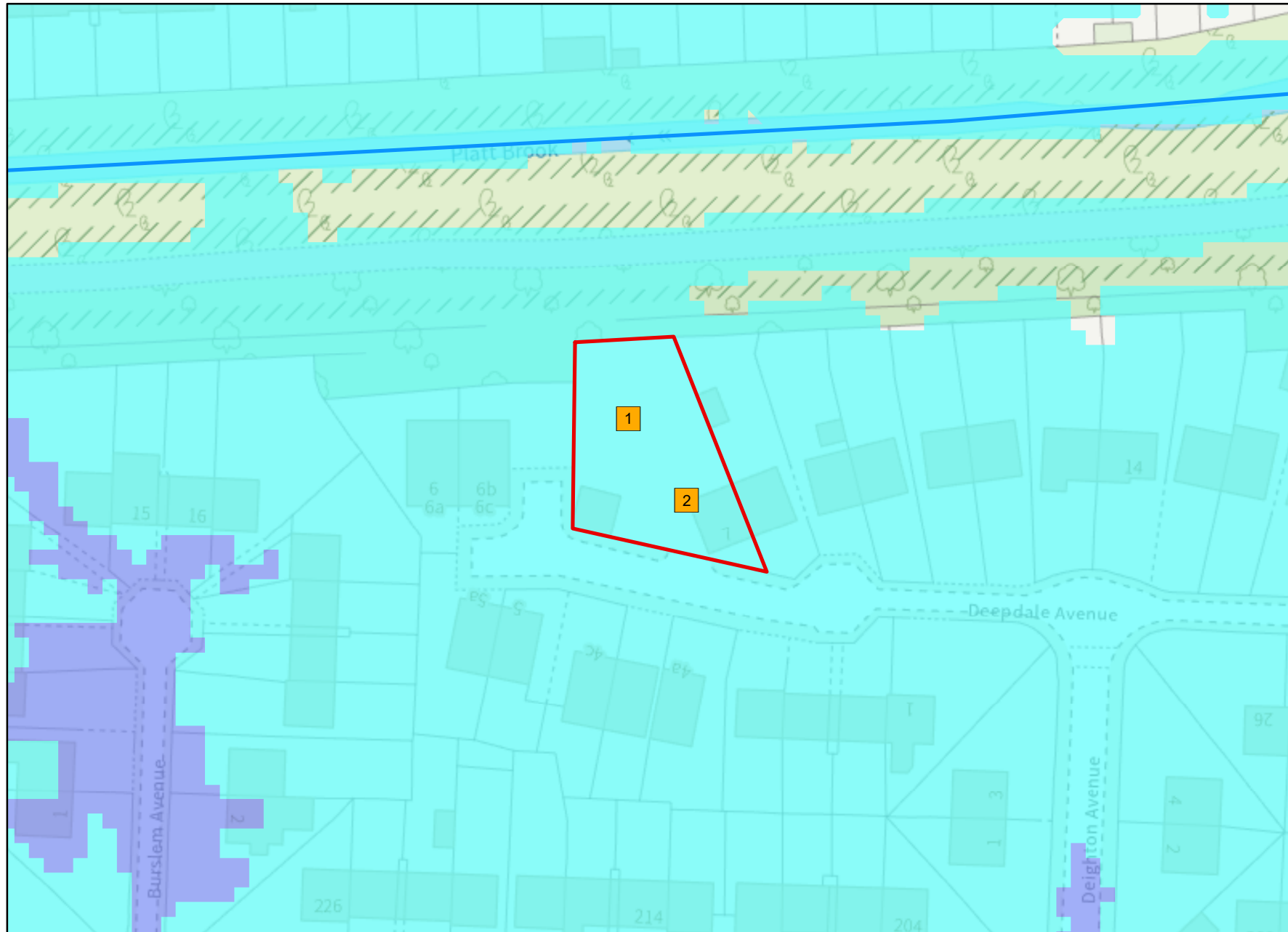
Label	Easting	Northing	1% AEP (+41%)	1% AEP (+53%)	1% AEP (+85%)	0.1% AEP (+53%)	1% AEP (+41%)	1% AEP (+53%)	1% AEP (+85%)	0.1% AEP (+53%)
			Depth	Depth	Depth	Depth	Height	Height	Height	Height
1	384128	393778	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
2	384136	393778	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
3	384144	393778	0.09	0.10	0.12	0.17	31.73	31.75	31.77	31.82
4	384152	393778	0.14	0.15	0.17	0.22	31.73	31.75	31.77	31.82
5	384112	393786	NoData	NoData	NoData	0.01	NoData	NoData	NoData	31.75
6	384120	393786	NoData	NoData	NoData	0.00	NoData	NoData	NoData	31.80
7	384128	393786	NoData	0.03	0.05	0.10	NoData	31.75	31.77	31.82
8	384136	393786	0.12	0.14	0.16	0.21	31.73	31.75	31.77	31.82
9	384144	393786	0.13	0.14	0.16	0.21	31.73	31.75	31.77	31.82
10	384152	393786	0.18	0.20	0.22	0.27	31.73	31.75	31.77	31.82
11	384112	393794	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
12	384120	393794	NoData	NoData	NoData	0.05	NoData	NoData	NoData	31.82
13	384128	393794	0.05	0.06	0.08	0.14	31.73	31.75	31.77	31.82
14	384136	393794	0.08	0.10	0.12	0.17	31.73	31.75	31.77	31.82
15	384144	393794	0.12	0.14	0.16	0.21	31.73	31.75	31.77	31.82
16	384112	393802	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData

Label	Easting	Northing	1% AEP (+41%)	1% AEP (+53%)	1% AEP (+85%)	0.1% AEP (+53%)	1% AEP (+41%)	1% AEP (+53%)	1% AEP (+85%)	0.1% AEP (+53%)
			Depth	Depth	Depth	Depth	Height	Height	Height	Height
17	384120	393802	0.10	0.11	0.13	0.18	31.73	31.75	31.77	31.83
18	384128	393802	0.06	0.08	0.10	0.16	31.73	31.75	31.77	31.83
19	384136	393802	0.11	0.13	0.15	0.20	31.73	31.75	31.77	31.83
20	384144	393802	0.13	0.14	0.17	0.22	31.73	31.75	31.77	31.83
21	384112	393810	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
22	384120	393810	0.04	0.05	0.07	0.11	31.79	31.80	31.82	31.86
23	384128	393810	0.03	0.05	0.07	0.12	31.74	31.75	31.77	31.83
24	384136	393810	0.09	0.10	0.12	0.18	31.73	31.75	31.77	31.83
25	384144	393810	0.08	0.10	0.12	0.17	31.73	31.75	31.77	31.83
26	384112	393818	0.07	0.08	0.10	0.14	31.95	31.96	31.98	32.02
27	384120	393818	NoData	0.00	0.00	0.02	NoData	31.94	31.95	31.98
28	384128	393818	0.00	0.00	0.05	0.08	31.73	31.76	31.90	31.94
29	384136	393818	NoData	NoData	NoData	0.01	NoData	NoData	NoData	31.87
30	384120	393826	0.71	0.72	0.75	0.81	31.98	32.00	32.02	32.08
31	384128	393826	0.68	0.69	0.72	0.78	32.01	32.03	32.06	32.12
Max value in selected area:			0.18	0.19	0.22	0.27	31.87	31.88	31.90	31.94

Data in this table comes from the Chorlton Platt Gore Model 2024 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.
If no height or depth data is available for a scenario, no table will be shown.
'Max value in selected area' is the deepest depth or highest height at any location within your drawn boundary.

2D Defended Flood Levels for Cringle Black Brook 2017 Centred on Deepdale Avenue, Manchester M20 1GU. Created 18/02/2025 [GMMC398544AB]



1:750



Legend

-  Site Location
-  2D Levels
-  Main River
-  Flood Zone 3
-  Flood Zone 2

					Defended				
Map Reference	Model Node Reference	Easting	Northing	Data	1 % AEP (1 in 100 year) + 30% increase in flow	1 % AEP (1 in 100 year) + 35% increase in flow	1 % AEP (1 in 100 year) + 70% increase in flow	0.1 % AEP (1 in 1000 year)	0.1 % AEP (1 in 1000 year) + 30% increase in flow
1	2D Levels	384126	393806	Modelled Water Level (m aodN)	31.71	31.76	31.91	32.04	32.10
2		384134	393795	Modelled Water Level (m aodN)	31.71	31.76	31.91	32.04	32.10

Model data taken from Cringle Black Brook 2017

AEP - Annual Exceedence Probability

m aodN - metres above ordnance datum Newlyn

cumecs - cubic metres per second

Notes:

*Climate Change Scenario - 30%, 35% and 70% increases in flow calculated for the 2080's (2070 - 2115).

Please see <https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances> for more information regarding the new climate change guidance.

The location of the site and the type (vulnerability) of development determine the climate change allowances to consider in any flood risk assessment.

Strategic flood risk assessments

We recommend that you check the relevant local authority's strategic flood risk assessment (SFRA) as part of your work to prepare a site specific flood risk assessment.

This should give you information about:

- the potential impacts of climate change in this catchment
- areas defined as functional floodplain
- flooding from other sources, such as surface water, ground water and reservoirs

Your Lead Local Flood Authority is Manchester District.

About this data

This data has been generated by strategic scale flood models and is not intended for use at the individual property scale. If you're intending to use this data as part of a flood risk assessment, please include an appropriate modelling tolerance as part of your assessment. The Environment Agency regularly updates its modelling. We recommend that you check the data provided is the most recent, before submitting your flood risk assessment.

Flood risk activity permits

Under the Environmental Permitting (England and Wales) Regulations 2016 some developments may require an environmental permit for flood risk activities from the Environment Agency. This includes any permanent or temporary works that are in, over, under, or nearby a designated main river or flood defence structure.

[Find out more about flood risk activity permits](#)

Help and advice

Contact the Greater Manchester Merseyside and Cheshire Environment Agency team at inforequests.gmmc@environment-agency.gov.uk for:

- [more information about getting a product 5, 6, 7 or 8](#)
- general help and advice about the site you're requesting data for