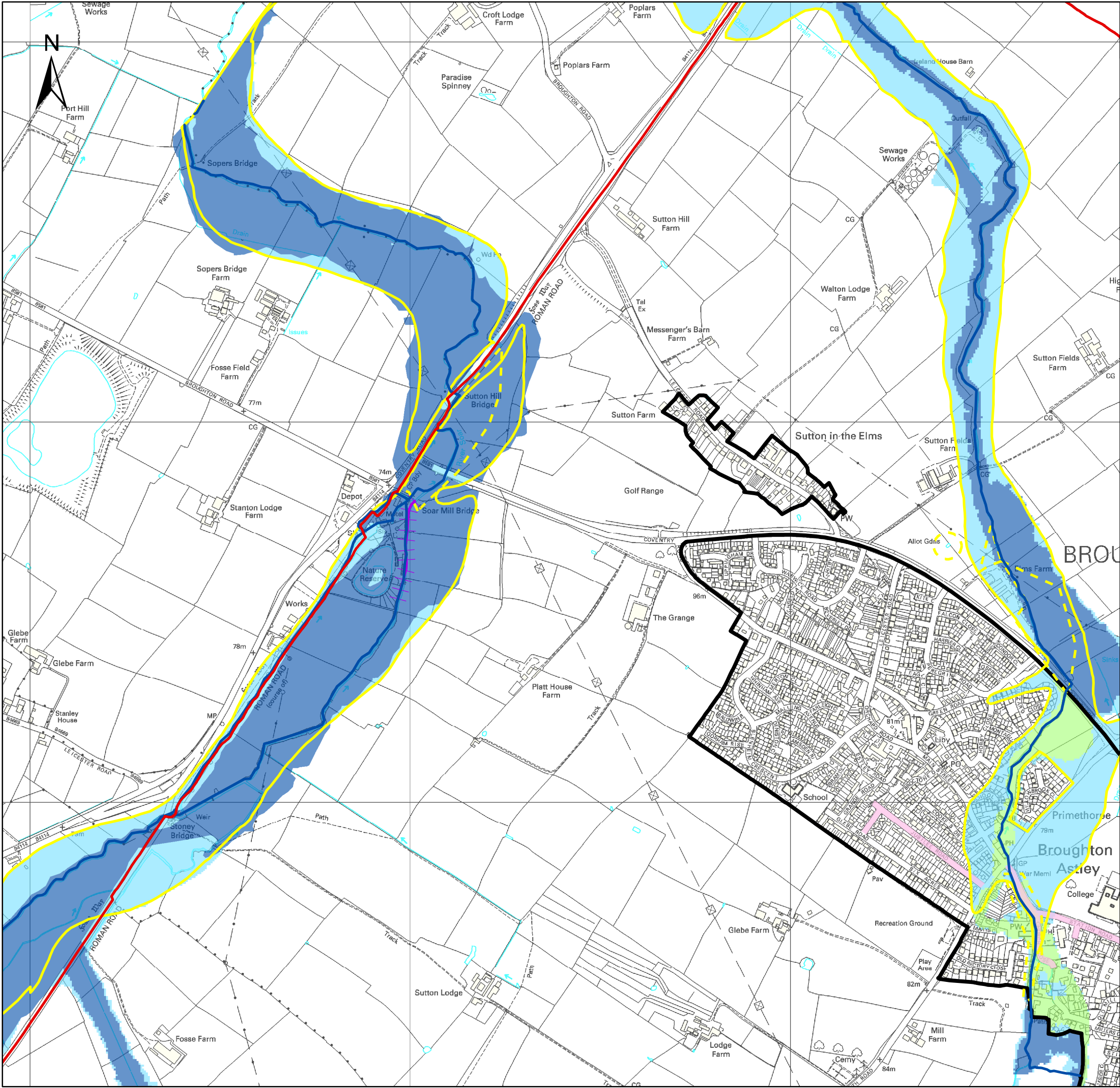


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## Appendix D: Flood Zone Mapping



# HARBOROUGH DISTRICT COUNCIL SFRA

## BROUGHTON ASTLEY

1:10,000 DETAILED MAPPING

### FLOOD RISK INFORMATION

A small area of Broughton Astley, from Sutton in the Elms south to Arkwright Cottages, is located in EA Flood Zones 2 (medium risk) and 3 (high risk). Further development in these areas should be avoided. The remainder of the developed areas are located outside the area of flood risk.

There are no reports of groundwater flooding in the area.

Historical flooding records exist for areas within and around Broughton Astley, with the majority due to fluvial flooding and overland flow following prolonged heavy rainfall events. Fluvial flooding due to burst river banks of the Broughton Brook is also common in this area.

### LIMITATIONS OF DATA

The Flood Zone 2 and 3 outlines have medium confidence as they were derived from broad scale modelling techniques. The EA are constantly updating flood zone information. Prior to undertaking sequential testing or allocation of developments, the EA should be consulted to see if more detailed information is available. Any updated flood zone information should be incorporated into the SFRA at the next update and also in site-specific FRAs.

### SUSTAINABLE DRAINAGE SYSTEMS

The use of Sustainable Drainage Systems (SuDS) is recommended across the whole area. Refer to the main report for more information on sustainable drainage and recommendations (for example, attenuation, combined and infiltration systems) for individual urban areas.

### FLOOD RISK ASSESSMENT GUIDANCE

In accordance with Planning Policy Statement 25 (PPS25), a risk-based sequential approach should be applied at all stages of planning. Flood Zones are the starting point of the sequential approach. All planning applications for development proposals of 1 hectare or greater in Flood Zone 1 and all proposals for development in Flood Zones 2 and 3 should be accompanied by a site-specific Flood Risk Assessment (FRA).

As a minimum, site-specific FRAs should identify and assess, in more detail than the SFRA, the risks of all forms of flooding to and from the development and demonstrate how these flood risks will be managed, taking into account climate change. The FRA should determine the level of vulnerability of the proposed development (Table D.3, PPS25) and the suitability of the vulnerability classification in the relevant flood zone (Table D.3, PPS25). FRAs should provide evidence to assist in the Sequential Test and, where necessary, the Exception Test.

Where sites are located in a Flood Zone with high confidence, modelled flood levels should be available and this should be used to determine minimum requirements, such as finished floor levels and access / egress routes. Where sites are located in a Flood Zone with a medium or low confidence, the FRA may need to define the flood outline at this location.

Where modelled information is not available for climate change, or unless otherwise indicated, the Flood Zone 2 outline has been used as a proxy for the 1 in 100 year plus climate change flood outline until such a time when more detailed information is available.

Location Overview

**Key**

- HDC Boundary
- Development Limits
- Sewer Flooding Incidents (as supplied by HDC, Leics F&RS and Severn Trent DGS)
- Flood Storage Areas
- Groundwater Source Protection Zones
- Areas that benefit from Flood Defences

- Flood Zone 1 - <1 in 1000yr Floodplain (includes all areas outside FZ 2 & 3a/3b)
- Flood Zone 2 - 1000yr Floodplain
- Flood Zone 3a - 100yr Floodplain
- Flood Zone 3b - Functional Floodplain

- Designated Main River
- Other River
- Canal
- Reservoir
- Flood Defences
- Historical Flooding Incidents
- Historical Flooding Incidents (as supplied by Parish Councils)

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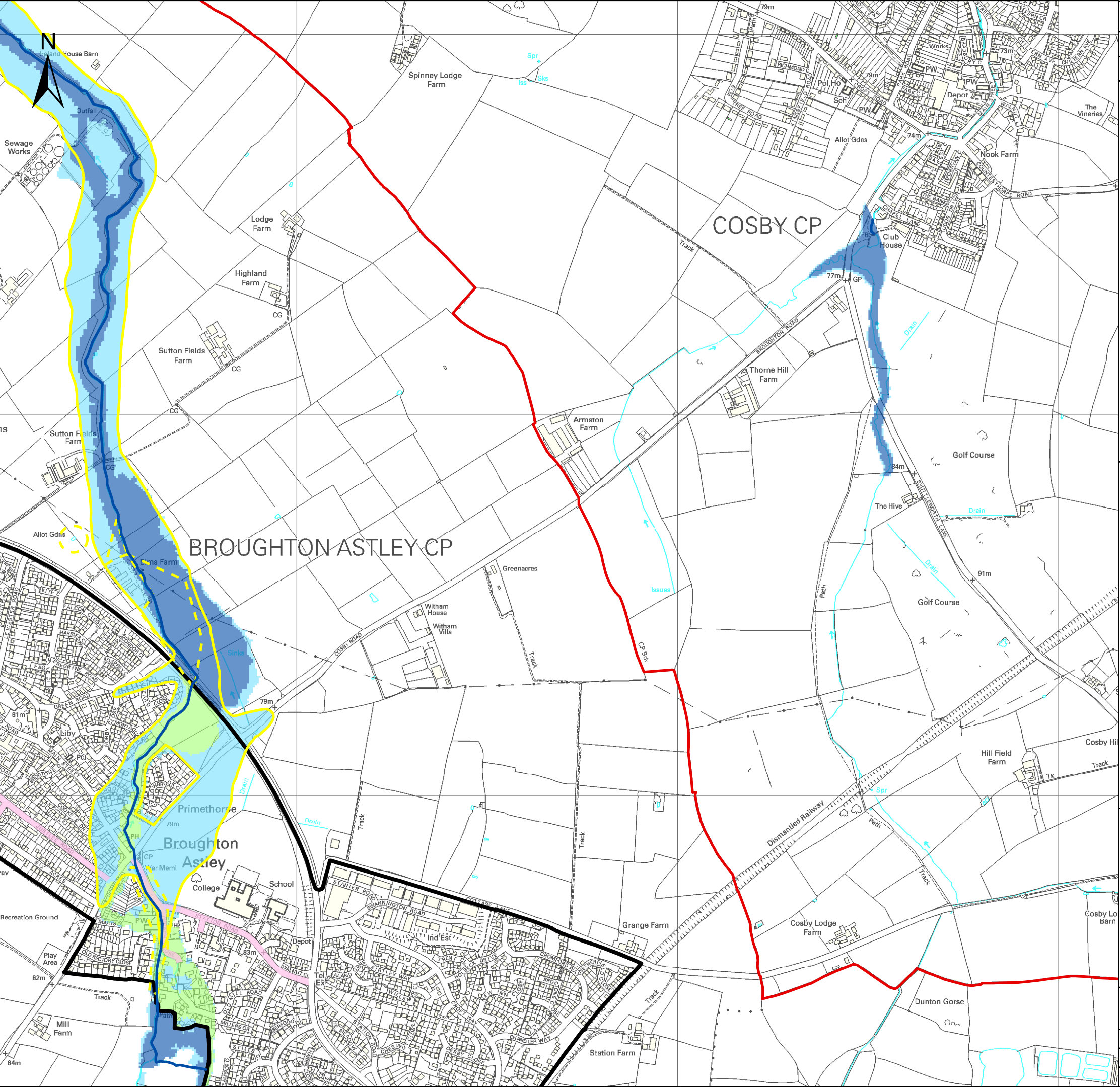
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| Job Title: Harborough SFRA        | Drawing Status: Final | Scale @ A3: 1:10,000 | Date: Apr 2009    |
| Drawing Number: D119550/WT/BA/001 |                       |                      | Revision: B       |

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# HARBOROUGH DISTRICT COUNCIL SFRA

## BROUGHTON ASTLEY

1:10,000 DETAILED MAPPING

### FLOOD RISK INFORMATION

A small area of Broughton Astley, from Sutton in the Elms south to Arkwright Cottages, is located in EA Flood Zones 2 (medium risk) and 3 (high risk). Further development in these areas should be avoided. The remainder of the developed areas are located outside the area of flood risk.

There are no reports of groundwater flooding in the area.

Historical flooding records exist for areas within and around Broughton Astley, with the majority due to fluvial flooding and overland flow following prolonged heavy rainfall events. Fluvial flooding due to burst river banks of the Broughton Brook is also common in this area.

#### LIMITATIONS OF DATA

The Flood Zone 2 and 3 outlines have medium confidence as they were derived from broad scale modelling techniques. The EA are constantly updating flood zone information. Prior to undertaking sequential testing or allocation of developments, the EA should be consulted to see if more detailed information is available. Any updated flood zone information should be incorporated into the SFRA at the next update and also in site-specific FRAs.

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Location Overview

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Flood Zone 2 - 1000yr Floodplain

Flood Zone 3a - 100yr Floodplain

Flood Zone 3b - Functional Floodplain

- Designated Main River
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- Reservoir
- Flood Defences
- Historical Flooding Incidents
- Historical Flooding Incidents (as supplied by Parish Councils)

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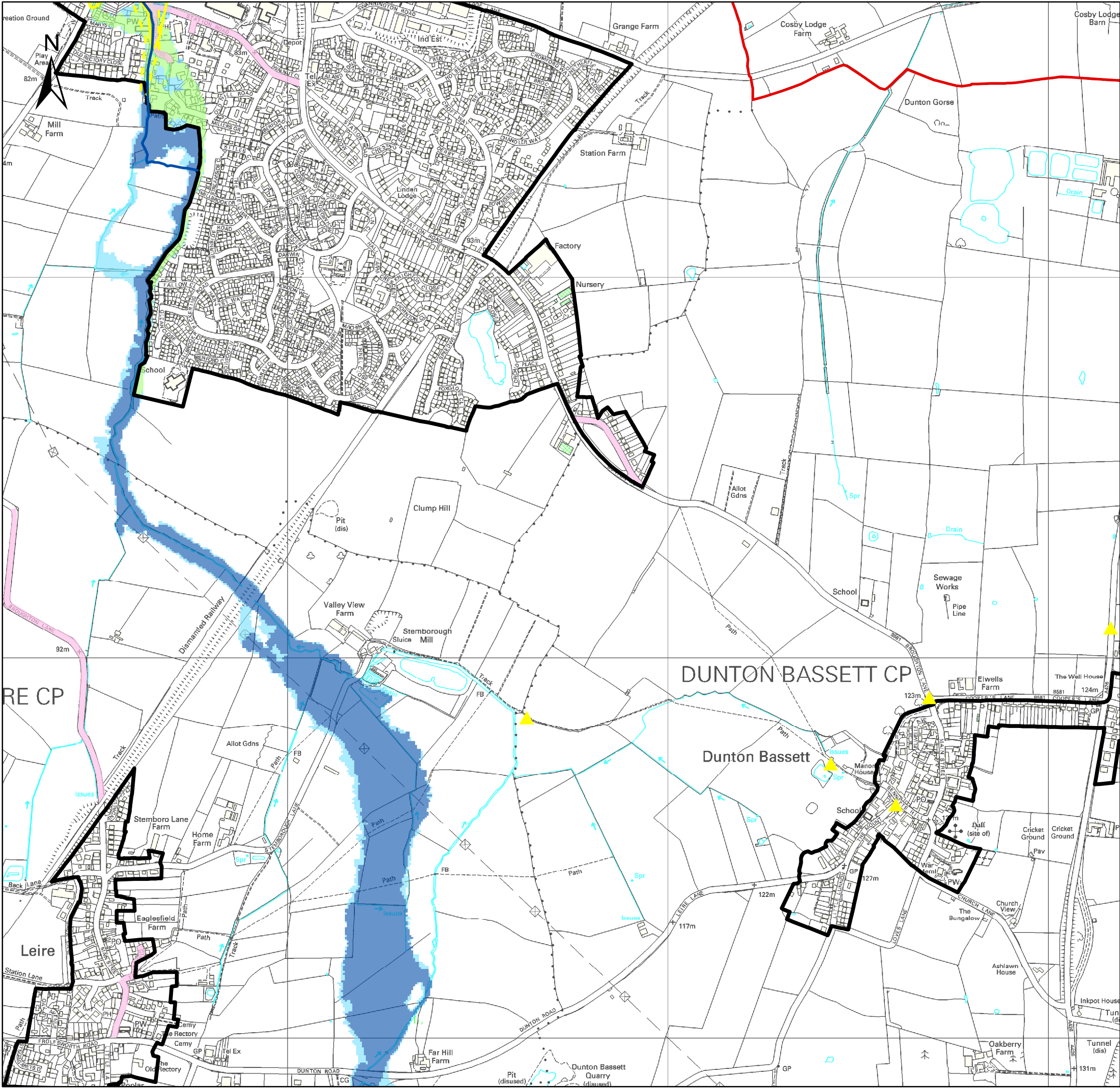
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# HARBOROUGH DISTRICT COUNCIL SFRA

## BROUGHTON ASTLEY

1:10,000 DETAILED MAPPING

### FLOOD RISK INFORMATION

A small area of Broughton Astley, from Sutton in the Elms south to Arkwright Cottages, is located in EA Flood Zones 2 (medium risk) and 3 (high risk). Further development in these areas should be avoided. The remainder of the developed areas are located outside the area of flood risk.

There are no reports of groundwater flooding in the area.

Historical flooding records exist for areas within and around Broughton Astley, with the majority due to fluvial flooding and overland flow following prolonged heavy rainfall events. Fluvial flooding due to burst river banks of the Broughton Brook is also common in this area.

#### LIMITATIONS OF DATA

The Flood Zone 2 and 3 outlines have medium confidence as they were derived from broad scale modelling techniques. The EA are constantly updating flood zone information. Prior to undertaking sequential testing or allocation of developments, the EA should be consulted to see if more detailed information is available. Any updated flood zone information should be incorporated into the SFRA at the next update and also in site-specific FRAs.

#### SUSTAINABLE DRAINAGE SYSTEMS

The use of Sustainable Drainage Systems (SuDS) is recommended across the whole area. Refer to the main report for more information on sustainable drainage and recommendations (for example, attenuation, combined and infiltration systems) for individual urban areas.

### FLOOD RISK ASSESSMENT GUIDANCE

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Where sites are located in a Flood Zone with high confidence, modelled flood levels should be available and this should be used to determine minimum requirements, such as finished floor levels and access / egress routes. Where sites are located in a Flood Zone with a medium or low confidence, the FRA may need to define the flood outline at this location.

Where modelled information is not available for climate change, or unless otherwise indicated, the Flood Zone 2 outline has been used as a proxy for the 1 in 100 year plus climate change flood outline until such a time when more detailed information is available.

#### Location Overview

#### Key

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- Groundwater Source Protection Zones
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- Flood Zone 1 - <1 in 1000yr Floodplain (includes all areas outside FZ 2 & 3a/3b)
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- Flood Zone 3a - 100yr Floodplain
- Flood Zone 3b - Functional Floodplain
- Designated Main River
- Other River
- Canal
- Reservoir
- Flood Defences
- Historical Flooding Incidents
- Historical Flooding Incidents (as supplied by Parish Councils)

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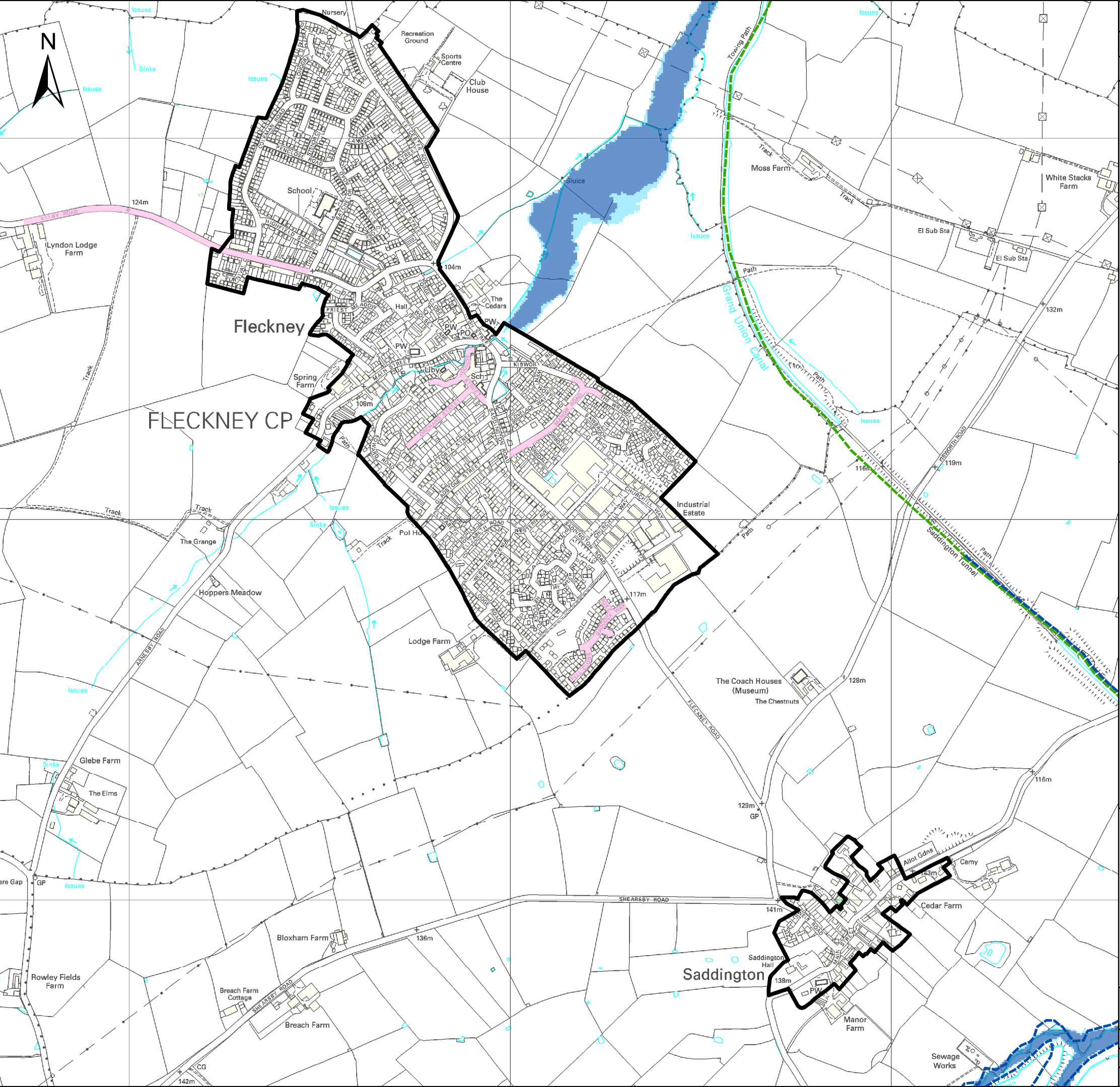
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# HARBOROUGH DISTRICT COUNCIL SFRA

## FLECKNEY

1:10,000 DETAILED MAPPING

### FLOOD RISK INFORMATION

The majority of the urban area of Fleckney lies outside the EA Flood Risk Zones, although a portion of greenfield land, located towards the north west of Fleckney, lies within Flood Zones 2 (medium risk) and 3 (high risk).

There are no reports of groundwater flooding in the area.

Historical flooding records exist for areas within and around Fleckney, with some reports due to fluvial flooding from the River Sence.

### LIMITATIONS OF DATA

The Flood Zone 2 and 3 outlines have medium confidence as they were derived from broad scale modelling techniques. The EA are constantly updating flood zone information. Prior to undertaking sequential testing or allocation of developments, the EA should be consulted to see if more detailed information is available. Any updated flood zone information should be incorporated into the SFRA at the next update and also in site-specific FRAs.

### SUSTAINABLE DRAINAGE SYSTEMS

The use of Sustainable Drainage Systems (SuDS) is recommended across the whole area. Refer to the main report for more information on sustainable drainage and recommendations (for example, attenuation, combined and infiltration systems) for individual urban areas.

### FLOOD RISK ASSESSMENT GUIDANCE

In accordance with Planning Policy Statement 25 (PPS25), a risk-based sequential approach should be applied at all stages of planning. Flood Zones are the starting point of the sequential approach. All planning applications for development proposals of 1 hectare or greater in Flood Zone 1 and all proposals for development in Flood Zones 2 and 3 should be accompanied by a site-specific Flood Risk Assessment (FRA).

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Where sites are located in a Flood Zone with high confidence, modelled flood levels should be available and this should be used to determine minimum requirements, such as finished floor levels and access / egress routes. Where sites are located in a Flood Zone with a medium or low confidence, the FRA may need to define the flood outline at this location.

Where modelled information is not available for climate change, or unless otherwise indicated, the Flood Zone 2 outline has been used as a proxy for the 1 in 100 year plus climate change flood outline until such a time when more detailed information is available.

Location Overview

**Key**

- HDC Boundary
- Development Limits
- Sewer Flooding Incidents (as supplied by HDC, Leics F&RS and Severn Trent DG5)
- Flood Storage Areas
- Groundwater Source Protection Zones
- Areas that benefit from Flood Defences

Flood Zone 1 - <1 in 1000yr Floodplain (includes all areas outside FZ 2 & 3a/3b)

Flood Zone 2 - 1000yr Floodplain

Flood Zone 3a - 100yr Floodplain

Flood Zone 3b - Functional Floodplain

Designated Main River

Other River

Canal

Reservoir

Flood Defences

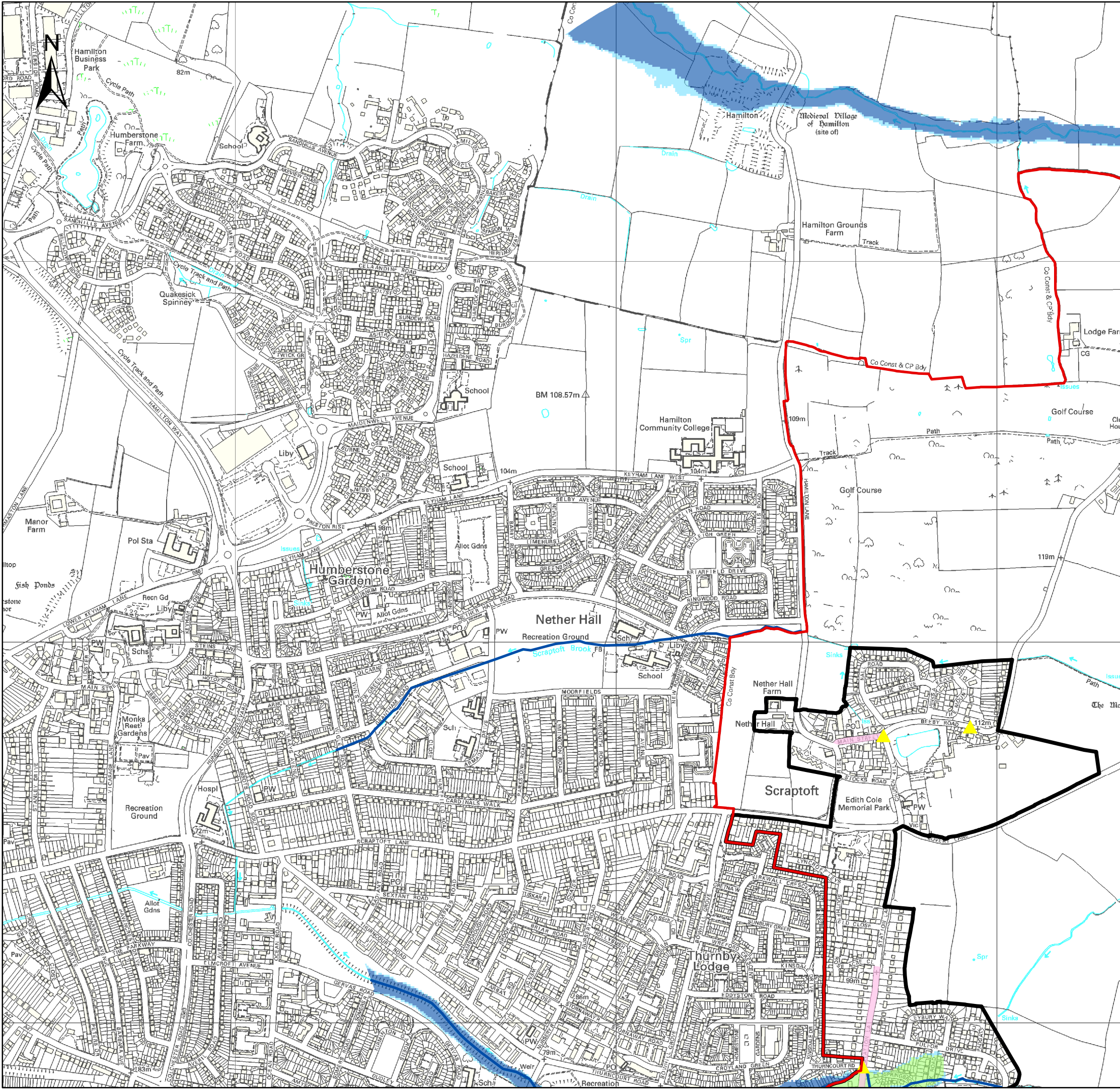
Historical Flooding Incidents

Historical Flooding Incidents (as supplied by Parish Councils)









# HARBOROUGH DISTRICT COUNCIL SFRA

## LEICESTER URBAN FRINGE

1:10,000 DETAILED MAPPING

### FLOOD RISK INFORMATION

Bushby Brook and Thurnby Brook present the main fluvial flood risk in this area. The extent of area which is located in EA flood zones within Leicester's Urban Fringe is minimal, with small areas in Flood Zone 3 (high risk) and 2 (medium risk). The remainder of the developed areas fall within Flood Zone 1.

There are no reports of groundwater flooding in this area.

Historical flooding records exist for the sites of Thurnby, Bushby and Scraftoft. Historical sewer flooding records are also present within this area. Localised flooding has occurred in the areas of Thurnby, Scraftoft and Bushby largely due to heavy rainfall events, surface water runoff and highway surcharging.

### LIMITATIONS OF DATA

The Flood Zone 2 and 3 outlines have medium confidence as they were derived from broad scale modelling techniques. The EA are constantly updating flood zone information. Prior to undertaking sequential testing or allocation of developments, the EA should be consulted to see if more detailed information is available. Any updated flood zone information should be incorporated into the SFRA at the next update and also in site-specific FRAs.

### SUSTAINABLE DRAINAGE SYSTEMS

The use of Sustainable Drainage Systems (SuDS) is recommended across the whole area. Refer to the main report for more information on sustainable drainage and recommendations (for example, attenuation, combined and infiltration systems) for individual urban areas.

### FLOOD RISK ASSESSMENT GUIDANCE

In accordance with Planning Policy Statement 25 (PPS25), a risk-based sequential approach should be applied at all stages of planning. Flood Zones are the starting point of the sequential approach. All planning applications for development proposals of 1 hectare or greater in Flood Zone 1 and all proposals for development in Flood Zones 2 and 3 should be accompanied by a site-specific Flood Risk Assessment (FRA).

As a minimum, site-specific FRAs should identify and assess, in more detail than the SFRA, the risks of all forms of flooding to and from the development and demonstrate how these flood risks will be managed, taking into account climate change. The FRA should determine the level of vulnerability of the proposed development (Table D.3, PPS25) and the suitability of the vulnerability classification in the relevant flood zone (Table D.3, PPS25). FRAs should provide evidence to assist in the Sequential Test and, where necessary, the Exception Test.

Where sites are located in a Flood Zone with high confidence, modelled flood levels should be available and this should be used to determine minimum requirements, such as finished floor levels and access / egress routes. Where sites are located in a Flood Zone with a medium or low confidence, the FRA may need to define the flood outline at this location.

Where modelled information is not available for climate change, or unless otherwise indicated, the Flood Zone 2 outline has been used as a proxy for the 1 in 100 year plus climate change flood outline until such a time when more detailed information is available.

Location Overview

**Key**

- HDC Boundary
- Development Limits
- Sewer Flooding Incidents (as supplied by HDC, Leics F&RS and Severn Trent DG5)
- Flood Storage Areas
- Groundwater Source Protection Zones
- Areas that benefit from Flood Defences

- Flood Zone 1 - <1 in 1000yr Floodplain (includes all areas outside FZ 2 & 3a/3b)
- Flood Zone 2 - 1000yr Floodplain
- Flood Zone 3a - 100yr Floodplain
- Flood Zone 3b - Functional Floodplain

- Designated Main River
- Other River
- Canal
- Reservoir
- Flood Defences
- Historical Flooding Incidents
- Historical Flooding Incidents (as supplied by Parish Councils)

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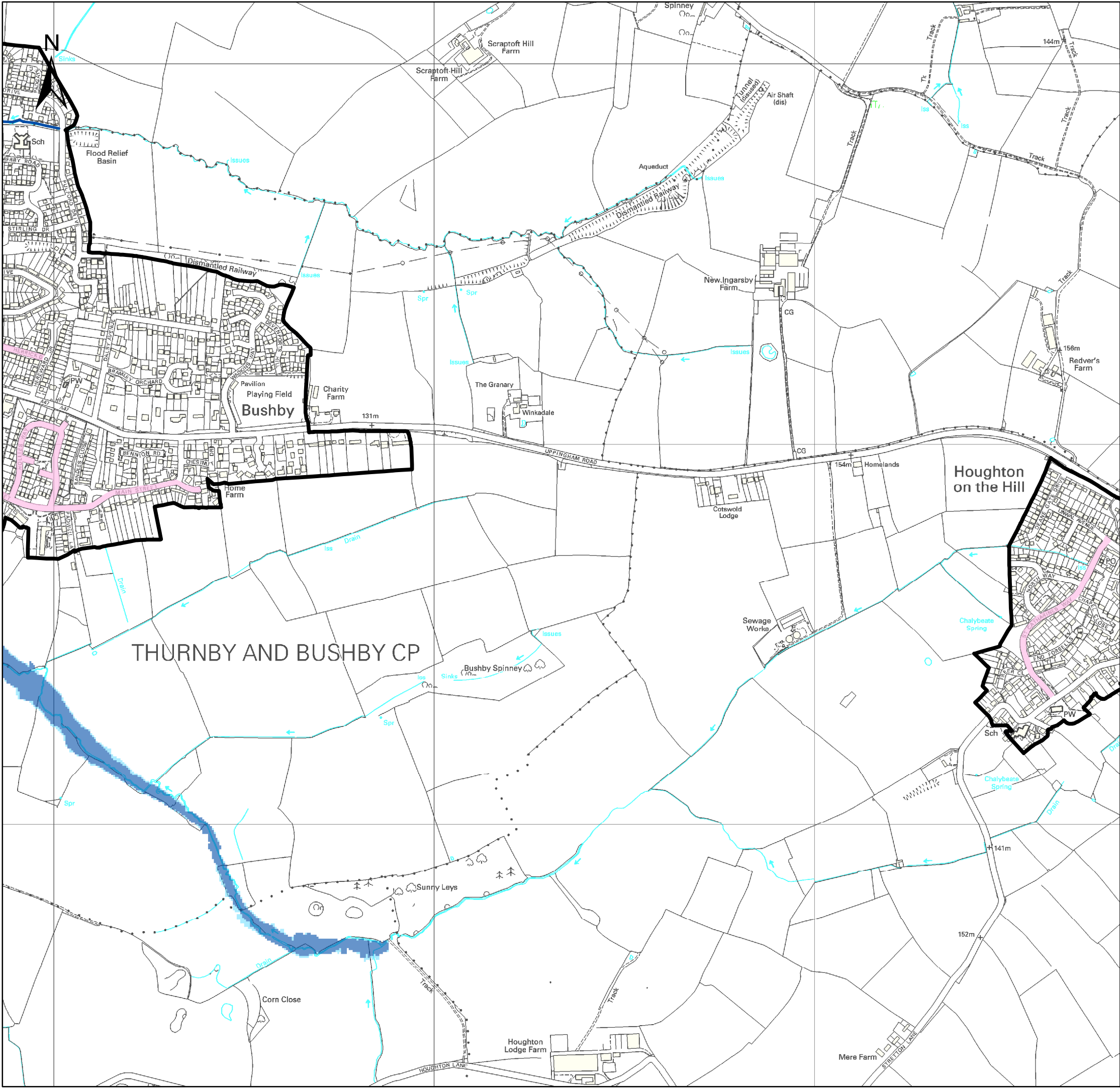
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# HARBOROUGH DISTRICT COUNCIL SFRA

## LEICESTER URBAN FRINGE

1:10,000 DETAILED MAPPING

### FLOOD RISK INFORMATION

Bushby Brook and Thurnby Brook present the main fluvial flood risk in this area. The extent of area which is located in EA flood zones within Leicester's Urban Fringe is minimal, with small areas in Flood Zone 3 (high risk) and 2 (medium risk). The remainder of the developed areas fall within Flood Zone 1.

There are no reports of groundwater flooding in this area.

Historical flooding records exist for the sites of Thurnby, Bushby and Scraptoft. Historical sewer flooding records are also present within this area. Localised flooding has occurred in the areas of Thurnby, Scraptoft and Bushby largely due to heavy rainfall events, surface water runoff and highway surcharging.

### LIMITATIONS OF DATA

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- Designated Main River
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- Flood Defences
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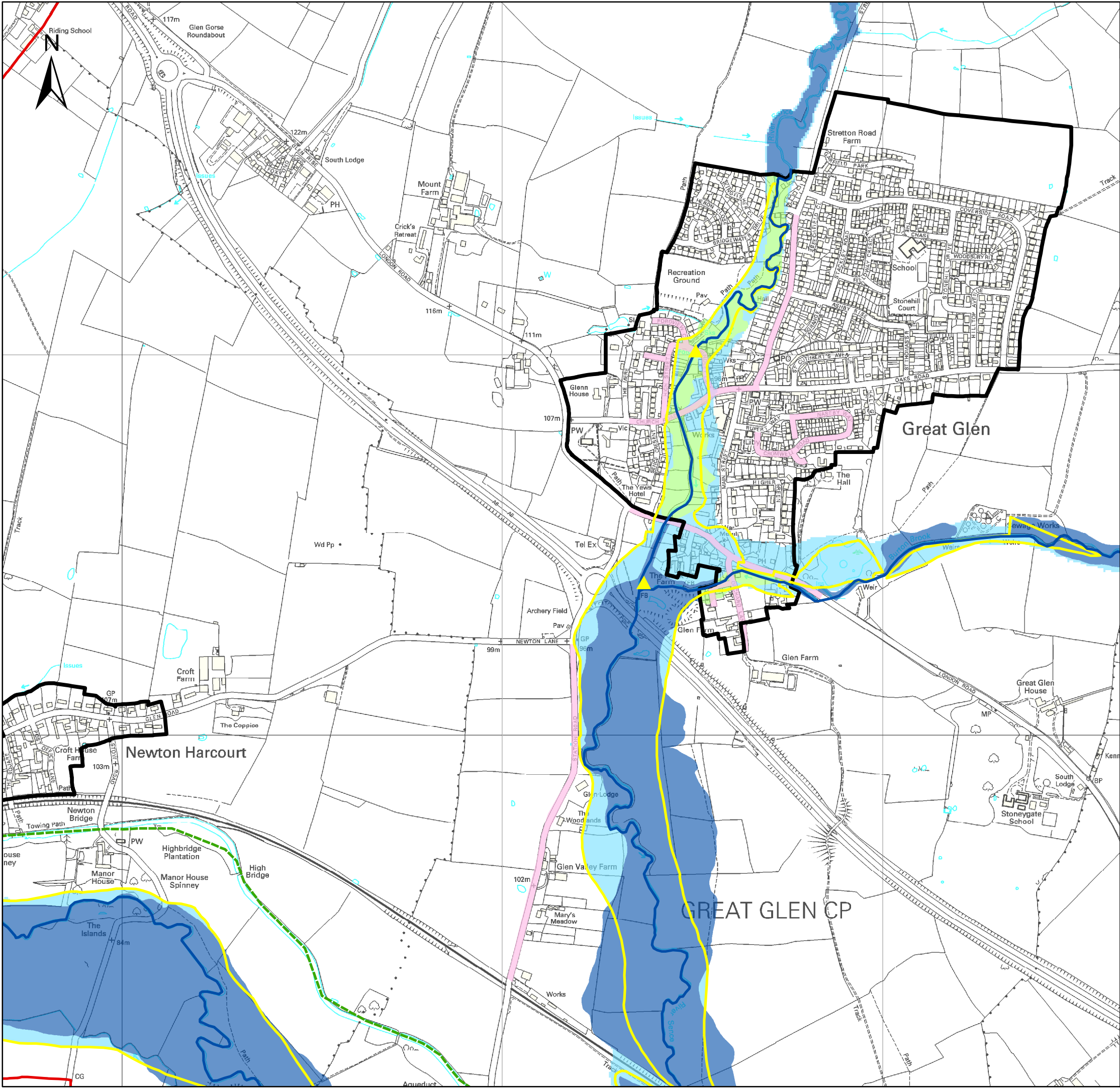
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DISTRICT OF  
HARBOROUGH  
PLANNING DEPARTMENT

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# HARBOROUGH DISTRICT COUNCIL SFRA

## GREAT GLEN

1:10,000 DETAILED MAPPING

### FLOOD RISK INFORMATION

The River Sence represents the main flood risk in this area. An area to the south of Great Glen and along the River Sence corridor is located within Flood Zones 2 (medium risk) and 3 (high risk). The remaining developed areas of land are located outside the flood risk area.

There are no reports of groundwater flooding in the area.

Historical flooding records exist for areas within and around Great Glen, with the majority due to fluvial flooding from the River Sence. Following heavy rainfall events, the River Sence has been recorded to exceed its capacity.

### LIMITATIONS OF DATA

The Flood Zone 2 and 3 outlines have medium confidence as they were derived from broad scale modelling techniques. The EA are constantly updating flood zone information. Prior to undertaking sequential testing or allocation of developments, the EA should be consulted to see if more detailed information is available. Any updated flood zone information should be incorporated into the SFRA at the next update and also in site-specific FRAs.

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- Flood Defences
- Historical Flooding Incidents
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