



# Huntingdonshire Level 2 Strategic Flood Risk Assessment Site Summary

Site CfS:161

# **Final Draft Report**

Prepared for
Huntingdonshire District
Council

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This report describes work commissioned by Huntingdonshire District Council by an instruction via email dated 21 July 2025. The Client's representative for the contract was Frances Schulz of Huntingdonshire District Council. Laura Thompson of JBA Consulting carried out this work.

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The methodology adopted and the sources of information used by JBA in providing its services are outlined in this Report. The work described in this Report was undertaken between 21 July 2025 and 6 November 2025 and is based on the conditions encountered and the information available during the said period. The scope of this Report and the services are accordingly factually limited by these circumstances.

The conclusions and recommendations contained in this Report are based upon information provided by others and upon the assumption that all relevant information has been provided by those parties from whom it has been requested and that such information is accurate.

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#### Acknowledgements

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# 1 Background

This is a Level 2 Strategic Flood Risk Assessment (SFRA) site screening report for Local Plan Site CfS:161. The content of this report assumes the reader has already consulted the 'HDC Level 1 SFRA' (2024) and read the 'HDC Level 2 SFRA Main Report' (2025) and is therefore familiar with the terminology used in this report.

#### 1.1 Site CfS:161

- Location: Land to the East of St Judith's Lane and west of Toll Bar Way and Green End Road (larger site), Sawtry
- Existing site use: Agriculture
- Existing site use vulnerability: Less vulnerable
- Proposed site use: Mixed use
- Proposed site use vulnerability: More vulnerable
- Site area (ha): 34.7
- Watercourse: Unnamed ordinary watercourses
- Environment Agency (EA) model: N/A
- Summary of requirements from Level 2 SFRA scoping stage:
  - Flood Zone 3b present onsite
  - Subject to the Exception Test as more vulnerable development proposed in Flood Zone 3a
  - Assessment of fluvial flood depths, velocities and hazards
  - Assessment of surface water flood extent, depths and hazards
  - o Assessment of all other sources of flood risk





Figure 1-1: Existing site location boundary





Figure 1-2: Aerial photography



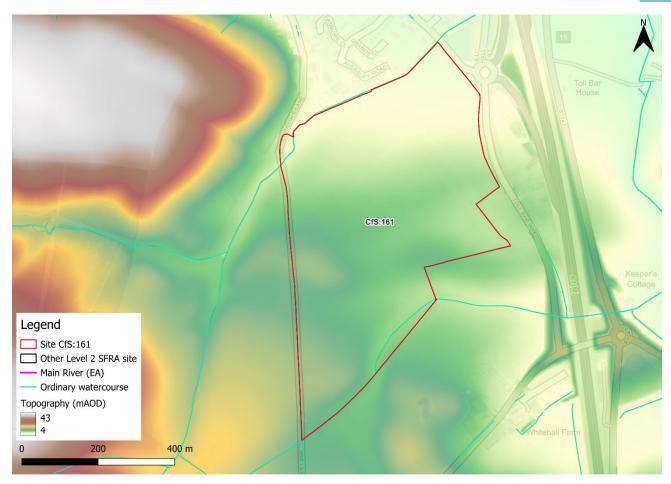


Figure 1-3: Topography



# 2 Flood risk from rivers and sea

#### 2.1 Existing risk

#### 2.1.1 Flood Map for Planning and functional floodplain

Based on the EA's Flood Map for Planning (accessed July 2025) and Flood Zone 3b (functional floodplain), as updated in this Level 2 SFRA, the percentage areas of the site within each flood zone are stated in Table 2-1 and can be viewed on Figure 2-1. This version of the Flood Map for Planning does not consider flood defence infrastructure (Section 2.2) or the impacts of climate change (Section 2.3).

A very small area along the northern boundary of the site (approximately 0.02%) is within the functional floodplain (Flood Zone 3b). Flood Zone 3b in this location is based on a modelled direct rainfall event included within the Flood Map for Planning 3.3% AEP defended event extent. Within the south of the site and along the northern boundary, Flood Zone 3a is present. Flood Zone 2 is also present along the northern boundary, adjacent to the unnamed watercourse bordering the site. The remaining area of the site is within Flood Zone 1.

Table 2-1: Existing flood risk based on percentage area of site at risk

Flood Zone 1 (%	Flood Zone 2 (%	Flood Zone 3a (%	Flood Zone 3b (%
area)	area)	area)	area)
94	5	1	0



6



Figure 2-1: Existing risk

#### 2.1.2 Fluvial undefended model outputs

The Flood Map for Planning in this location is based on the Environment Agency's broadscale New National Model (NNM). Any FRA undertaken to inform a planning application should produce a detailed model of the unnamed watercourses to understand modelled depths and hazards within the site.

#### 2.1.3 Tidal undefended model outputs

The site is not at risk from tidal flooding.

#### 2.2 Flood risk management

#### 2.2.1 Flood defences

There are no engineered flood defences within the vicinity of the site that are likely to impact fluvial flood risk.

#### 2.2.2 Working with Natural Processes



The EA's Working with Natural Processes (WwNP) dataset has been interrogated to identify opportunities for Natural Flood Management (NFM) to reduce flood risk to the site and surrounding areas. These areas are shown in Figure 2-2. Note, the WwNP mapping is broadscale and indicative, therefore further investigation will be required for any land shown to have potential for WwNP. Within the site, there is potential for riparian tree planting along the ordinary watercourses, which can slow flows, reduce sediment delivery to the watercourse and reduce bankside erosion. In the areas of high ground upstream of the site there is potential for wider catchment woodland planting to intercept, slow, store and filter water.



Figure 2-2: Natural Flood Management (NFM) potential mapping

#### 2.3 Impacts from climate change

#### 2.3.1 Fluvial

The EA's SFRA guidance states that SFRAs should assess the central allowance for less, more, highly vulnerable, and water compatible development. The higher central allowance should be assessed for essential infrastructure. However, as there is no existing detailed model of the unnamed watercourses, modelling of the central allowance has not been possible.



Climate change data in this area is unavailable from the EA's Flood Map for Planning plus climate change (2070-2125) dataset, as shown in Figure 2-3. Therefore, in the absence of modelled climate change information, Flood Zone 2 of the Flood Map for Planning (based on the 0.1% AEP undefended event) can be used as a precautionary proxy for Flood Zone 3 plus climate change. Based on this approach, fluvial risk is modelled to increase along the northern boundary of the site.

The impacts of climate change must be modelled using the EA's latest allowances for peak river flows to inform whether the site can be safe for its lifetime. Any FRA should produce a detailed model of the unnamed watercourses and include for the most up to date climate change allowances (Table 2-2).

Table 2-2: Modelled climate change allowances for peak river flows for the Old Bedford and Middle Level management catchment

Return period (AEP event)	Central allowance 2080s (% increase)	Higher central allowance 2080s (% increase)
3.3% (functional floodplain)	6%	15%
1%	6%	15%
0.1%	6%	15%



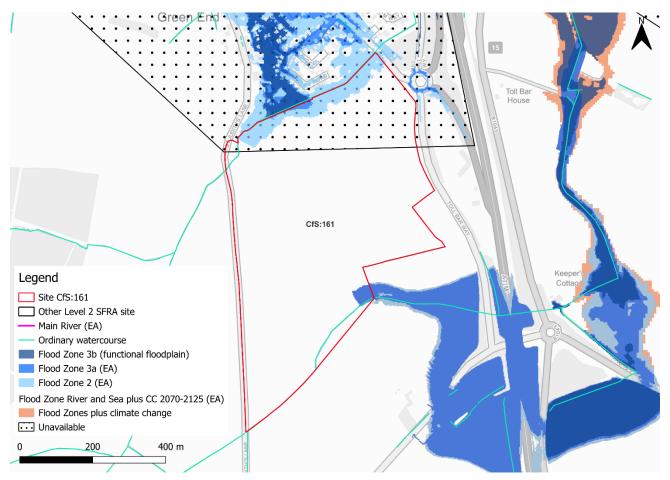


Figure 2-3: Flood Map for Planning - Climate Change 2070-2125 outputs

#### 2.3.2 Tidal

The EA's Flood Map for Planning shows the site is not at risk from tidal climate change.

#### 2.4 Historic flood incidents

The EA's Historic Flood Map (HFM) and Recorded Flood Outlines (RFO) datasets have been considered. There are no recorded historic flood events within the vicinity of the site.

#### 2.5 Emergency planning

#### 2.5.1 Flood warning

The EA operates a Flood Warning Service for properties located within a Flood Warning Area (FWA) for when a flood event is expected to occur. The site is not located within a FWA.

Flood alerts may be issued before a flood warning for properties located within a Flood Alert Area (FAA) to provide advance notice of the possibility of flooding. A flood alert may be



issued when there is less confidence that flooding will occur in a FWA. The site is also not located within a FAA.

#### 2.5.2 Access and escape routes

Based on available information, safe access and escape routes could likely be achieved during a fluvial flood event via St Judiths Lane to the west of the site (Figure 2-4).

Safe access and escape routes must be available at times of flood and appear to be available from the west of the site, via St Judiths Lane.



Figure 2-4: Potential access and escape routes

# 2.6 Observations, mitigation options, site suitability, sequential approach to development management - fluvial and tidal

#### Observations:

- The proposed development of the site would see a change in the risk classification from less vulnerable to more vulnerable, according to the NPPF.
- The site is partially located within fluvial Flood Zone 3a and therefore must be subject to the exception test.
- The Flood Map for Planning in this location is based on the EA's broadscale NNM. Any site-specific FRA should produce a detailed model of the unnamed



- watercourses to understand modelled depths and hazards within the site and include the most up to date climate change allowances.
- The area within Flood Zone 3a should not be developed for residential purposes. A detailed model of the unnamed watercourses within the north and south of the site should be developed at the site-specific FRA stage.
- The EA's Flood Zone 2 extent has been used as a proxy to provide a precautionary estimate of the 1% AEP undefended event plus climate change. Based on this approach, fluvial risk is modelled to increase in extent along the northern boundary of the site. However, climate change must be modelled at the site-specific FRA stage.

#### Defences:

 There are no engineered flood defences within the vicinity of the site that are likely to impact fluvial flood risk.

#### Mitigation:

- The site-specific FRA should develop a detailed model of the unnamed watercourses to fully understand the onsite fluvial risk and look to include the channel and risk areas within a blue green corridor.
- o If works are proposed on or near a river or flood defence, a separate permission may be required. The type of permission needed and whether it must be sought from the Environment Agency, Lead Local Flood Authority or Internal Drainage Board will depend on the activity and location proposed. The developer should check if they need permission to do work on a river, flood defence or sea defence.

#### Access and escape:

 Safe access and escape routes must be available at times of flood and appear to be available from the west of the site, via St Judiths Lane.



## 3 Flood risk from surface water

#### 3.1 Existing risk

The NaFRA2 Risk of Flooding from Surface Water (RoFSW) mapping received a significant update and was published January 2025, including for surface water flood extents and depths. However, at the time of writing, the EA has confirmed that the depth information available is not structured in a way that is suitable for planning purposes. Therefore, this Level 2 SFRA considers the third generation RoFSW depth and hazard mapping in addition to the NaFRA2 extents, as agreed with the EA. Surface water depth and hazard should be modelled at the site-specific FRA stage.

#### 3.1.1 Risk of Flooding from Surface Water - NaFRA2 extents

Based on the EA's national scale RoFSW map, as updated in January 2025, surface water risk to the site is predominantly very low. Approximately 7% of the site is at high surface water risk. A further 3% is at medium risk and a further 8% is at low surface water risk, as shown in Table 3-1.

In all events, surface water risk is largely confined to the areas adjacent to the ordinary watercourses which run through the north and south of the site. There is also an area of ponding within a topographic low spot within the east of the site.

Table 3-1: Existing surface water flood risk based on percentage area at risk using the NaFRA2 RoFSW map

Very low risk (% area)	Low risk (% area)	Medium risk (% area)	High risk (% area)
82	8	3	7



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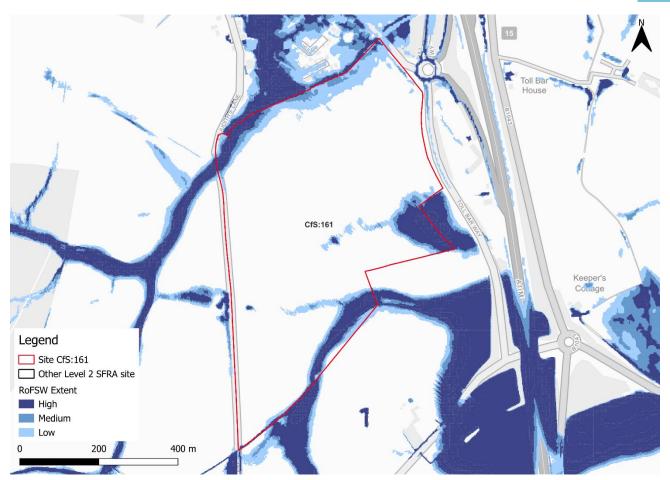


Figure 3-1: Surface water flood extents (NaFRA2 - Risk of Flooding from Surface Water map)

#### 3.1.2 Risk of Flooding from Surface Water - third generation depths and hazard

Based on the EA's national scale third generation RoFSW map, greatest flood depths within the site in the medium risk event are between 0.9 and 1.2 m (Figure 3-2), with hazard categorised as significant (Figure 3-3). These depth values are located along the southern boundary of the site, within the channel of the unnamed watercourse onsite. Outside of the channel, maximum onsite depths are modelled to be between 0.3 and 0.6 m.

There are differences between the NaFRA2 RoFSW map and the third-generation depths and hazard mapping. This reinforces the requirement for detailed assessment of surface water at the FRA stage to establish surface water flood risk conditions.

End Road (larger site), Sawtry





Figure 3-2: Medium risk event surface water flood depths (Third generation - Risk of Flooding from Surface Water map)





Figure 3-3: Medium risk event surface water flood hazard<sup>1</sup> (Third generation - Risk of Flooding from Surface Water map)

#### 3.2 Impacts from climate change

The NaFRA2 RoFSW mapping now includes one modelled climate change scenario, the 2050s central allowance for the high, medium and low risk events. However, the upper end allowance on peak rainfall for the 2070s should be assessed in SFRAs. Therefore, at the time of writing, the available national surface water climate change mapping is unsuitable for consideration in development planning. This Level 2 SFRA considers the low risk surface water event as a conservative proxy for the medium risk event plus climate change, as agreed with the EA. The impact of climate change on surface water flood risk should be fully accounted for at the site-specific FRA stage.

Using the low risk event as a proxy, the medium risk surface water event is likely to increase most notably in extent along the northern boundary of the site when accounting for climate change (Figure 3-4). The third generation surface water map indicates in channel depths are likely to increase to more than 1.2 m, with out of channel depths remaining at between 0.9 and 1.2 m (Figure 3-5). Surface water hazard is likely to become significant in

<sup>1</sup> Based on Section 7.5 Hazard rating. What is the Risk of Flooding from Surface Water map? Report version 2.0. April 2019. Environment Agency



the climate change scenario (Figure 3-6). However, as noted in Section 3.1.2, modelled depths and hazards may vary from the third generation mapping, reinforcing the requirement for detailed assessment of surface water at the FRA stage to establish surface water flood risk conditions. The NaFRA2 extents appear to be larger in area than the third generation mapping.

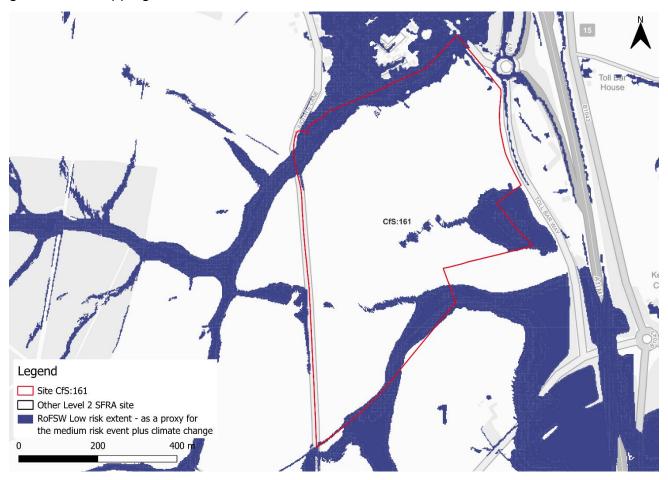


Figure 3-4: Low risk event surface water flood extent, as a proxy for the medium risk event plus climate change (NaFRA2 - Risk of Flooding from Surface Water map)



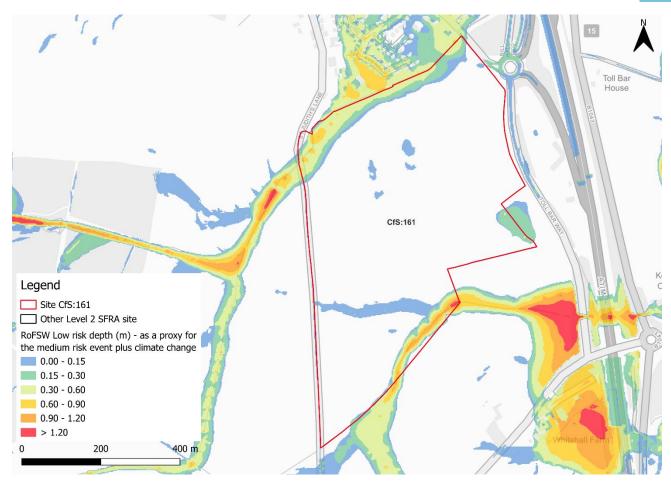


Figure 3-5: Low risk event surface water flood depths, as a proxy for the medium risk event plus climate change (Third generation - Risk of Flooding from Surface Water map)





Figure 3-6: Low risk event surface water flood hazard, as a proxy for the medium risk event plus climate change (Third generation - Risk of Flooding from Surface Water map)

# 3.3 Observations, mitigation options, site suitability, sequential approach to development management - surface water

- Current risk to the site is predominantly very low, with 82% of the site being at very low surface water flood risk. However, there are two major flow paths through the site along the ordinary watercourses. There is also an area of shallow ponding within topographic low spots in the east.
- In the low risk surface water event, there is a notable increase in the extent of surface water flooding along the northern boundary of the site.
- The effects of climate change on surface water have not been modelled for this SFRA, however the low risk surface water event has been used as a proxy for the medium risk event plus climate change. Risk is modelled to increase in extent along the northern boundary.
- Surface water flood depths, hazards, including for the impact of climate change should be considered further through the site-specific FRA and drainage strategy. Any surface water modelling at the FRA stage should consider flood depths and hazards.



- There are differences between the NaFRA2 RoFSW map and the thirdgeneration depths and hazard mapping. This reinforces the requirement for detailed assessment of surface water at the FRA stage to establish surface water flood risk conditions.
- The onsite watercourses should be kept in place and remain unobstructed. The channels should be maintained and included within the landscaping design of the development. Any infilling of ditches and ponds should be avoided.
- The drainage strategy must ensure there is no increase in surface water flood risk elsewhere as a result of new development. Greenfield rates will apply, and the developer should follow the National SuDS guidance and any local guidance available from the LLFA.
- The RoFSW map is not suitable for identifying whether an individual property will flood and is therefore indicative. The RoFSW map is not appropriate to act as the sole evidence for any specific planning or regulatory decision or assessment of risk in relation to flooding at any scale without further supporting studies, modelling, or evidence.



# 4 Cumulative impacts assessment and high risk catchments

#### 4.1 Level 1 cumulative impacts assessment

A cumulative impact assessment was completed through the Huntingdonshire Level 1 SFRA (2024), which aimed to identify catchments sensitive to the cumulative impact of new development. This site is located within one catchment, namely, the Middle Level catchment. This catchment is ranked as a medium sensitivity catchment. Planning considerations for sites at medium sensitivity to the cumulative impacts of development can be found in Appendix G of the Level 1 SFRA. Cumulative impacts of development should also be considered as part of a site-specific FRA.



# 5 Groundwater, geology, soils, SuDS suitability

Risk of groundwater emergence is assessed in this SFRA using JBA's 5m Groundwater Emergence Map. This dataset is recommended for use by the EA in the SFRA Good Practice Guide<sup>2</sup>. Figure 5-1 shows the map covering this site and the surrounding areas. Table 5-1 explains the risk classifications.

The entirety of the site is classified as no risk. Infiltration SuDS should be suitable at this site based on groundwater. The underlying bedrock within the site is a combination of mudstone, siltstone and sandstone (Figure 5-2). Mudstone and siltstone generally have low permeability. A ground investigation, including infiltration and percolation testing, would be required at FRA stage to understand whether infiltration SuDS would be suitable.

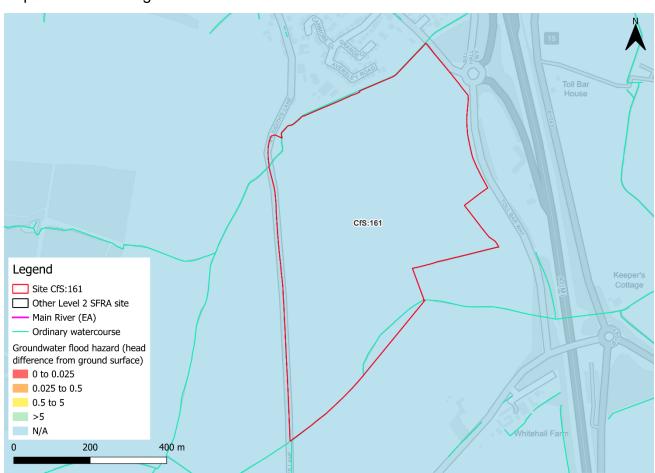


Figure 5-1: JBA 5m Groundwater Emergence Map

<sup>2</sup> Strategic flood risk assessment good practice guide. ADEPT. December 2021.



Table 5-1: Groundwater Hazard Classification

Groundwater head difference (m)*	Class label	
0 to 0.025	Groundwater levels are either at very near (within 0.025m of) the ground surface in the 100-year return period flood event.  Within this zone there is a risk of groundwater flooding to both surface and subsurface assets. Groundwater may emerge at significant rates and has the capacity to flow overland and/or pond within any topographic low spots.	
0.025 to 0.5	Groundwater levels are between 0.025m and 0.5m below the ground surface in the 100-year return period flood event.	
	Within this zone there is a risk of groundwater flooding to surface and subsurface assets. There is the possibility of groundwater emerging at the surface locally.	
0.5 to 5	Groundwater levels are between 0.5m and 5m below the ground surface in the 100-year return period flood event	
	There is a risk of flooding to subsurface assets, but surface manifestation of groundwater is unlikely.	
>5	Groundwater levels are at least 5m below the ground surface in the 100-year return period flood event. Flooding from groundwater is not likely.	
N/A	No risk.	
	This zone is deemed as having a negligible risk from groundwater flooding due to the nature of the local geological deposits.	
*Difference is defined as ground surface in mAOD minus modelled groundwater table in mAOD.		



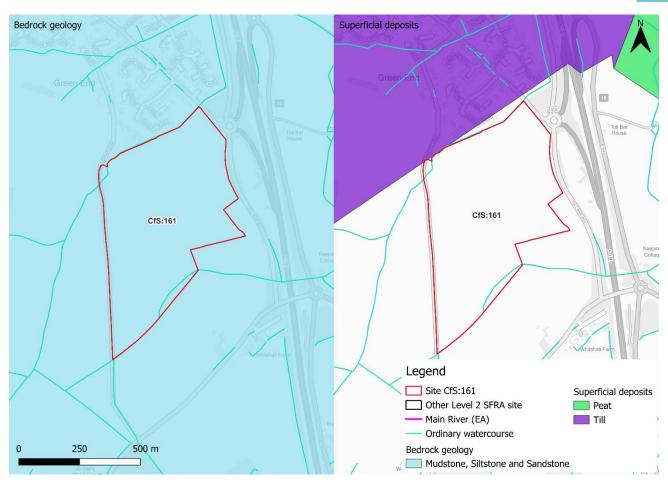


Figure 5-2: Soils and geology



# 6 Residual risk

Although a site may be afforded some protection from defences and / or drainage infrastructure, there is always a residual risk of flooding from asset failure i.e. breaching / overtopping of flood defences, blockages of culverts or drainage assets.

Residual risk at this site may come from the potential blockage of the structures beneath St Judith's Lane and Green End Road.

#### 6.1 Potential blockage

A blockage of the structures beneath St Judith's Lane and Green End Road (Figure 6-1) may cause flooding to the site, depending on the severity of the blockage and the magnitude of the flood event. Such a scenario should be investigated at the FRA stage. Culvert course and condition surveys may be required, including for consultation with the culvert owner.



Figure 6-1: Potential blockage locations

#### 6.2 Flood risk from reservoirs



The EA's Reservoir Flood Maps (RFM) (2021) show where water may go in the unlikely event of a reservoir or dam failure. A 'dry day' scenario assumes that the water level in the reservoir is the same as the spillway level or the underside of the roof for a service reservoir and the watercourses upstream and downstream of the reservoir are at a normal level. A 'wet day' scenario assumes a worst-case scenario where a reservoir releases water held on a 'wet day' when local rivers have already overflowed their banks.

The site is not modelled to be at risk from reservoir flooding.



## 7 Overall site assessment

#### 7.1 Can part b) of the exception test be passed?

This site is required to pass part b) of the exception test as it is proposed for more vulnerable development and is located within Flood Zone 3a. Based on the information presented in this Level 2 SFRA, the exception test could be passed and the site allocated. However, the test should be reapplied at the application stage as some flood risk information has not been available for consideration in this Level 2 SFRA, as outlined below. The test should also be reapplied if more recent information about existing or potential flood risk becomes available at application stage.

#### 7.2 Recommendations summary

Based on the evidence presented in the Level 1 SFRA (2024) and this Level 2 SFRA:

- Existing and future flood risk from the unnamed ordinary watercourses onsite must be investigated. Detailed modelling may be required.
- Updated present day and climate change modelling of the unnamed ordinary watercourses should be used to update this Level 2 SFRA at the earliest opportunity to provide an up-to-date strategic assessment of flood risk to this site and the surrounding areas in order to allocate the site.
- The onsite watercourses should be kept in place and remain unobstructed. The channels should be maintained and included within the landscaping design of the development. This should be reviewed as part of a detailed drainage strategy for the site.
- There is potential residual risk to the site from a blockage of structures beneath St Judith's Lane and Green End Road. The impact of a blockage in these locations should be explored at the site-specific FRA stage.
- Opportunities for NFM features to reduce flood risk to the site and surrounding areas should be explored at the site-specific FRA stage.

#### 7.3 Site-specific FRA requirements and further work

At the planning application stage, the following should be considered:

- Full detailed flood modelling of the unnamed ordinary watercourses to assess up to date risk to the site.
- Further modelling to understand the impacts of climate change on fluvial and surface water flood risk to the site.
- Further consideration of surface water flood risk, including a drainage strategy. Discharge rates should remain at greenfield rates at a minimum.
- A condition assessment of the culverts at the northern boundary of the site and investigate the impact of a potential blockage of these structures.



- FRA should be carried out in line with the latest versions of the NPPF; FRCC-PPG; EA online guidance; the HDC Local Plan, and national and local SuDS policy and guidelines.
- Throughout the FRA process, consultation should be carried out with, where applicable, the local planning authority; the lead local flood authority; emergency planning officers; the Environment Agency; Anglian Water; the highways authorities; and the emergency services.

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