

Former Youth Centre, Priory Road, St Neots					
OSNGR:	518197,260605	Area: 0.47ha		Brownfield / greenfield	
Flood Zone Coverage:		FZ3b	FZ3a	FZ2	FZ1
		6%	93%	1%	0%

## Sources of flood risk:

The main sources of flood risk to the site is from the River Great Ouse. Surface water flood risk is minimal, predominantly located on Ware Road.

## **Exception Test Required?**

Yes, if More Vulnerable and Essential Infrastructure development is located in FZ3a and for Highly Vulnerable development located in FZ2.

Highly Vulnerable infrastructure should not be permitted within FZ3a and FZ3b.

More Vulnerable and Less Vulnerable Infrastructure should not be permitted within FZ3b.

Essential Infrastructure in Flood Zone 3b will require the Exception Test.

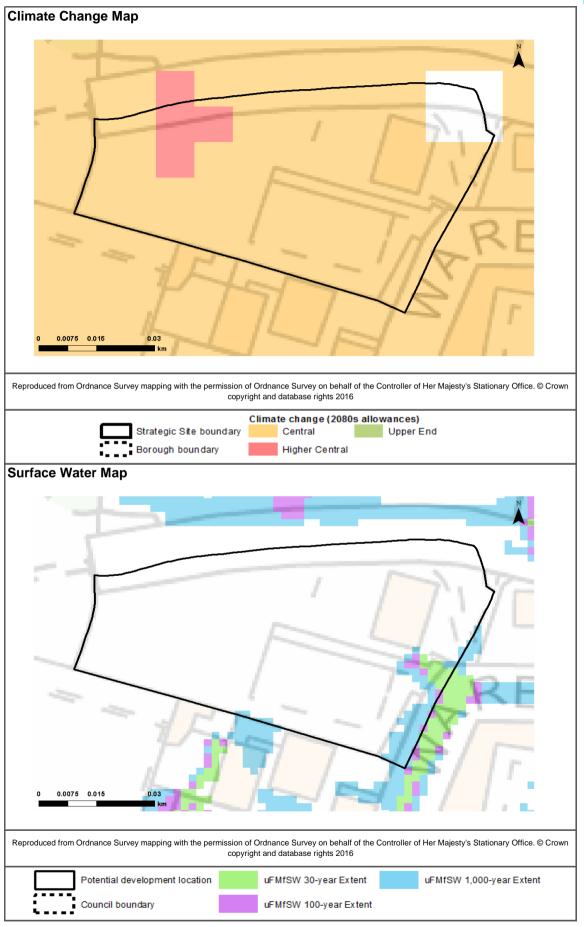
# Flood Zone Map



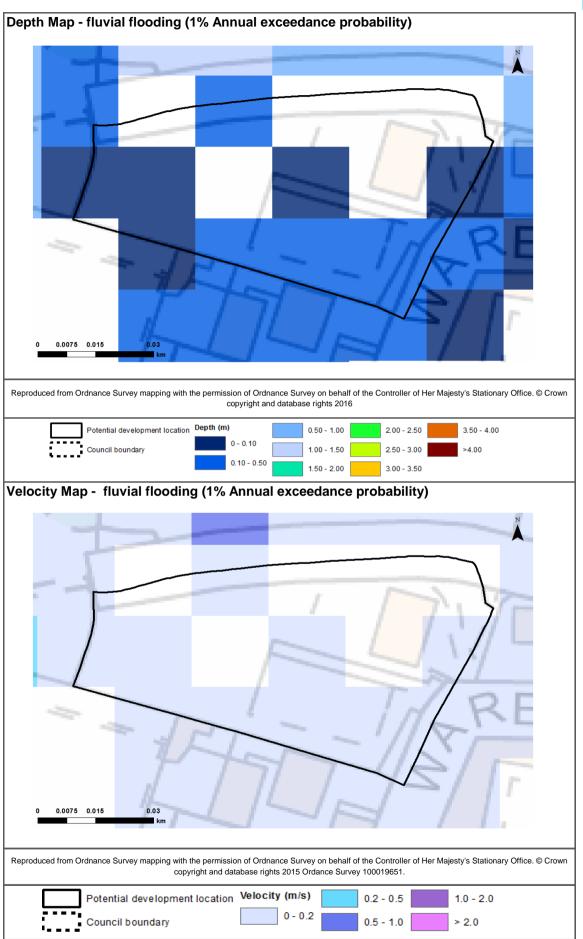
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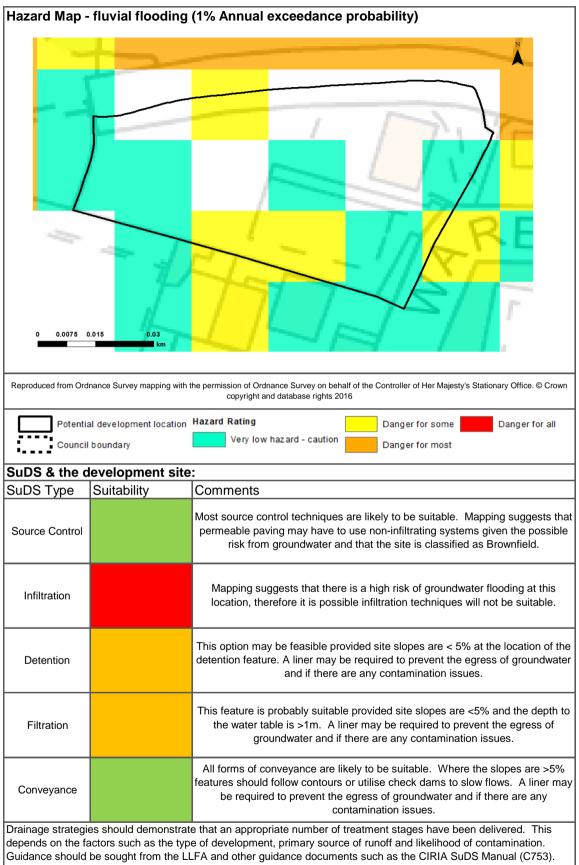














# Flood Defences:

There are no flood defences at this site.

# **Emergency Planning:**

This site is partially covered by the River Great Ouse from Tempsford to Offord Flood Warning Area.

### **Access & Egress:**

Access and egress for the site during a flood is significantly restricted. Access off New Street is shown to flood in the 5% AEP event, and alternative access from Ware Road is shown to flood in the 1% and 0.1% AEP events. Safe refuge would be required as part of a development to ensure safety if occupiers of the site were unable to evacuate in a flood.

#### **Climate Change:**

The site is already almost entirely within the Flood Zones. However, climate change may mean that in the future, what is currently considered Flood Zone 3a may become Functional Floodplain, and what is currently Flood Zone 2 may become Flood Zone 3a. Flood depths may also increase in the site.

Climate change may increase the extent of surface water flooding in the future.

## Implications for Development:

Use of the Sequential Approach is limited as the whole of the site is located in Flood Zone 3; therefore any development will be required to pass the Exception Test. Flood compensation will be required on a level for level volume for volume basis for any proposed loss of floodplain. Therefore land within the vicinity and outside the proposed site will be required for flood compensation, See section 8.3.4 of the SFRA. Prospects for effective mitigation would need to be established before taking the site forward.

Safe access and egress is at risk from both fluvial and surface water flooding; in order to pass the Exception Test, development will need to ensure that safe access and agress can be provided for the lifetime of the development. Development should also ensure that there is no increase in flood risk that may exacerbate safe access and egress. Broadscale assessment of suitable SuDS has indicated a number of different types may be possible; however, given the size of the site and the proportion of the site at risk from flooding, the type of SuDS system used may be influenced by amount of land available; depending on the system used there may be an impact on the amount of land available for development and the cost of development.

The site is partially covered by the Environment Agency's Flood Warning Service. Given the potential access and egress issues, development may need to consider provision of safe refuge in the event of occupiers being unable to evacuate.

The site is not known to benefit from any flood defences. Given the size and location of the site, it is unlikely the site could be used to implement strategic solutions to alleviate flood risk elsewhere in the catchment.

#### **Guidance for Developers:**

Mapping in this table is based on results from the Environment Agency's Upstream Ouse 1D-2D model.

At the planning application stage, a site-specific flood risk assessment will be required if any development is located within Flood Zones 2 or 3. Other sources of flooding should also be considered. Where a site specific FRA has produced modelling outlines which differ from the Flood Map for Planning then a full evidence based review would be required; where this is acceptable to the EA then amendments to the Flood Map for Planning may take place. Resilience measures will be required if buildings are situated in the flood risk area.

The peak flows on the River Great Ouse should be considered when considering drainage.

Assessment for runoff should include allowance for climate change effects.

New or re-development should adopt exemplar source control SuDS techniques to reduce the risk of frequent low impact flooding due to post-development runoff.

Onsite attenuation schemes would need to be tested against the hydrographs of the River Great Ouse to ensure flows are not exacerbated downstream within the catchment.

Safe access and egress will need to be demonstrated; currently access and egress is affected by surface water flooding and fluvial flooding from a 3.3% AEP event.

New development must seek opportunities to reduce overall level of flood risk at the site, for example by:

- o Reducing volume and rate of runoff
- o Relocating development to zones with lower flood risk
- o Creating space for flooding.
- o Green infrastructure should be considered within the mitigation measures for surface water runoff from potential development and consider using Flood Zones 2 and 3 as public open space.

Consultation with the Local Authority and the Environment Agency should be undertaken at an early stage.