

Cov3 - Walsgrave Hill Farm (Site B)					
OSNGR:	438876,280689	Area: 10.0ha		Greenfield	
Flood Zone Coverage:		FZ3b	FZ3a	FZ2	FZ1
		0.5%	1%	2%	98%

#### Sources of flood risk:

There is negligible flood risk to this site, with just a small area at risk of fluvial flooding from Withy Brook at High Bridge. The site is not shown to be at risk from surface water flooding.

### **Exception Test Required?**

Unlikely. Less than 2% of the site is in the Flood Zones. By adjusting the site boundary the site could be removed from the Flood Zones.

## **NPPF Guidance:**

- The majority of the site is shown to be located within Flood Zone 1. By adjusting the site boundary the site can be removed from the Flood Zones. Alternatively the site should be left as open space.
- The site will require a site-specific Flood Risk Assessment (FRA), in which the vulnerability to flooding from other sources should be considered.
- The potential to increase flood risk elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off should be considered.
- Developers and local authorities should seek opportunities to reduce the overall level of flood risk in the area and beyond, through the layout and form of the development and through appropriate sustainable drainage techniques. There may be potential to use development at this site to improve flood risk on the Withy Brook and further downstream.

# Flood Zone Map

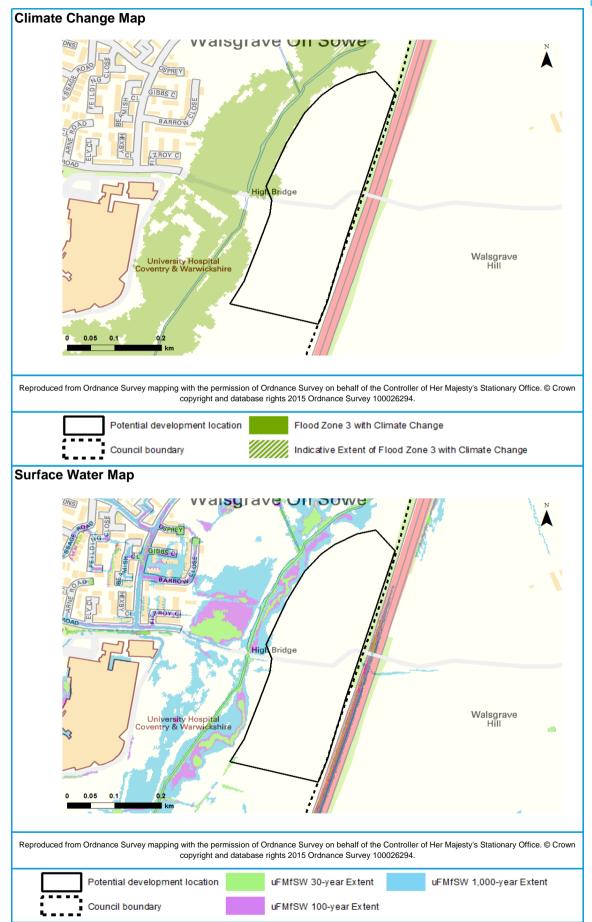


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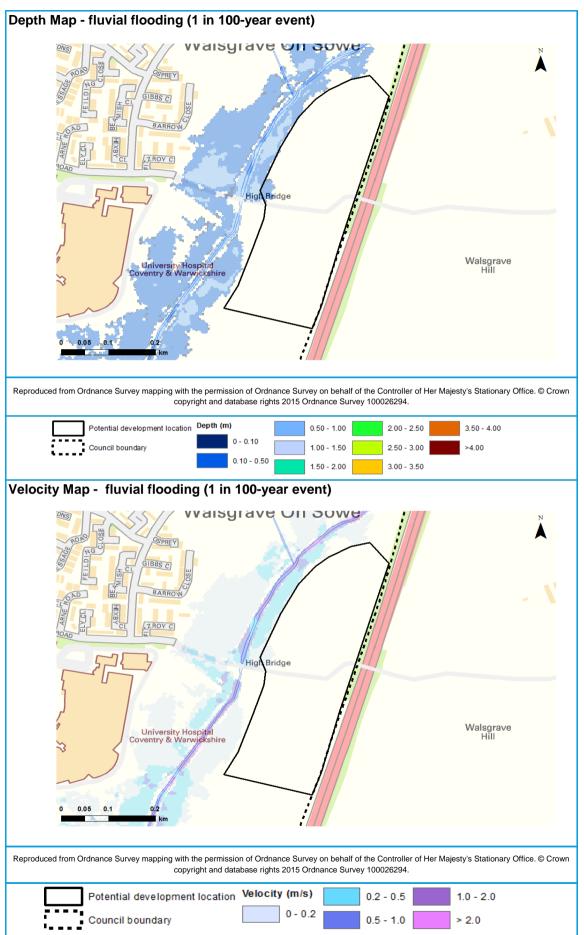
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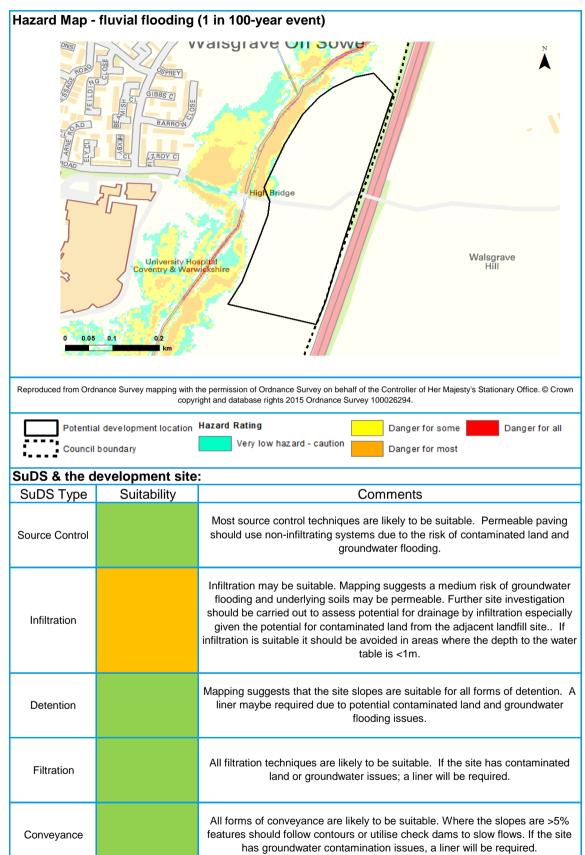
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- Residential developments / mixed use developments should provide at least two independent SuDS features in series to provide a suitable level of water quality treatment. Industrial developments should provide at least three independent SuDS features in series to provide a suitable level of water quality treatment.
- This site boundary is adjacent to an area designated by the Environment Agency as being a landfill site. A thorough ground investigation will be required as part of a detailed FRA to determine the extent of the contamination and the impact this may have on SuDS. As such proposed SuDS should be discussed with the relevant stakeholders (LPA, LLFA and EA) at an early stage to understand possible constraints.
- The site is not located within any Environment Agency designated ground source protection zones.

#### Flood Defences:

There are no flood defences at this site.

# Flood Warning:

This potential development site is not covered by a FWA; however, as small part of the site is covered by the River Sowe, River Sherbourne, Canley Brook and Finham Brook Flood Alert Area.

# Access & Egress:

Access and egress to the potential development site can be achieved via an unnamed track which cuts through the centre of the site or from the A46 which runs along the eastern boundary. Access from the west via is access track is shown to be impacted by fluvial flooding. All other access and egress routes are shown to not be impacted by flooding.

# Climate Change:

- · Increased storm intensities.
- · Increased water levels in the Withy Brook.

## Flood Risk Implications for Development:

- At the planning application stage, a site-specific FRA will be required for any development or re-development within the potential development site as detailed by the standing conditions in the LFRMS. Site-specific FRAs should be produced to current national and local stands and consider all sources of flood risk (including residual risk). Strategic documents such as the SWMP, PFRA and SFRA should be used as sources of information.
- · 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.
- Potential storage options should be considered to reduce flood risk downstream from the Withy Brook. This will also attenuation flows from watercourses that contribute to the River Sowe, providing protection to other areas of Coventry.
- The peak flows on the Withy Brook should be considered when reviewing drainage.
- Any designated features of significance to flood risk should be removed or altered without prior consent from the designated authority.
- No overland flow route or channel is to be become obstructed without appropriate interception and diversion of flows (agreed in writing with the LLFA). This is to prevent damage to property.
- New or re-development should adopt source control SuDS techniques to reduce the risk of frequent low impact
  flooding due to post-development runoff. These should be predominately open air SuDS techniques and will be assess
  in accordance with National and Local standards and guidance as agreed by the LLFA. The LLFA and relevant
  stakeholders should be consulted at an early stage to ensure SuDS are implemented and designed to overcome sitespecific constraints.
- Rainwater runoff from a drainage systems shall discharge to one of the following (listed in order of priority)
- 1) an adequate soakaway or some other adequate infiltration system
- 2) a watercourse
- 3) surface water sewer.

Surface water discharge to foul or combined systems will not be accepted.

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- Flows and volumes should be restricted to the Greenfield QBar less 20% for any site using the most appropriate form of calculation agreed with the LLFA. This is required for both new and redeveloped sites.
- · Assessment for runoff should include allowance for climate change effects.
- Green infrastructure should be considered as part of the mitigation measures for surface water runoff from potential development. Consider using Flood Zones 2 and 3 as public open space.
- It is important to ensure that any new connections to sewer systems or watercourses do not have a detrimental impact to third party lands downstream. Any connection should be approved with the consent from the relevant flood risk management authority.
- On-site attenuation schemes would need to be tested against the hydrographs of the Withy Brook to ensure flows are not exacerbated downstream within the catchment.
- All developments need to utilise water harvesting techniques to reduce the use of fresh water within a development and reduce the discharge volumes from the site. This must be implemented unless evidence can be provided that it is unsuitable.
- Groundwater levels should be considered when developing or redeveloping areas of potential development sites. Development should not cause or increase groundwater flood risk.
- If required an intrusive ground investigation report should be provided to establish depth and type of strata, including percolation results in accordance with BRE 365 as well as the presence and risk with migrant contaminants.
- · Safe access and egress will need to be demonstrated.
- · Consultation with the Local Authority and the Environment Agency should be undertaken at an early stage.

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