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Site details	Site Code	Site AS445 – Land south of Desford Road, Newbold Verdon					
	Area	16.0 hectares					
	Current land use	Greenfield					
	Proposed land use	Residential					
	Existing drainage features	An unnamed watercourse flows from east to west along the southern boundary of the site.				ong the southern	
	Fluvial	Proportion of site at risk					
		FZ3b		FZ3a	FZ2		FZ1
		9%		10%	12%		88%
		Flood risk to the site is associated with the watercourse that runs along the southern boundary with Flood Zones 3b, 3a and 2 extending away from the channel into the low-lying area of the site and into the narrowest section of the site in the southwest.					
Sources of flood risk	Surface Water		ropor	tion of site a	•		•
11000 115K		30-year			100-year		1,000-year
		The site remains largely unaffected by surface water flooding in the 30-year event with isolated areas of ponding along the unnamed watercourse. Surface water flooding occurs in isolated areas across the site in the 100-year event, with larger areas of ponding and flow paths developing in the narrowest section of the site (southwest) in the 1,000-year event.					
	Reservoir	The site is not shown to be at risk of reservoir flooding.					
	Flood history	There are no records of historic flooding at the site from Leicestershire County Council or the Environment Agency historic flooding map.					
	Defences	Defence Typ	е	Standard of		Condition	
Flood risk				Protection			
management infrastructure		This site is not protected by any formal flood defences.					
inirastructure	Residual risk	N/A					
	Flood warning	The site is not covered by the Environment Agency's Flood Warning Service.					
Emergency planning	Access and egress	Dry access and egress to the site is available via Kirkby Lane and the B582 in all fluvial flooding events and in 30-year and 100-year surface water events. A very small part of the 1,000-year surface water extent is located on Kirkby Lane, but access would not be impeded. Mapping shows that the maximum depth along Kirkby Lane, Desford Road and Barlestone Road away from the sites is 0.3m, therefore access may still be possible; however, the depths, velocities, hazards, durations and speeds of onset of surface water and fluvial flooding along access/ egress routes should be investigated further in a site-specific assessment, to confirm whether access for emergency vehicles could still be obtained.					



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Climate Change	Climate change allowances for '2080s'	River Basin District	Central	Higher Central	Upper End		
		Humber	20%	30%	50%		
	Implications for the site	Fluvial extents from climate change did not increase significantly when compared with FZ3a. As the site is affected by surface water flooding from the 100-year event, climate change may also increase the extent, depth and frequency of surface water flooding. The 1,000-year surface water extent can be used as an indication of surface water climate change extents.					
Requirements for drainage control and impact mitigation	Broad scale assessment of possible SuDS	•			of the site.  ction Zone.  Mapping -infiltrating  um risk of bermeable. otential for be avoided  If forms of potential her maybe  the slopes ms to slow undwater. previously  cestershire e notes as s of SuDS,		



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NPPF and planning implications	Exception Test requirements	<ul> <li>The Sequential Test will need to be passed before the Exception Test is applied.</li> <li>The Exception Test will need to be applied if:         <ul> <li>More Vulnerable and Essential Infrastructure development is located in FZ3a and for Highly Vulnerable development located in FZ2.</li> <li>Highly Vulnerable infrastructure should not be permitted within FZ3a and FZ3b.</li> <li>More Vulnerable and Less Vulnerable Infrastructure should not be permitted within FZ3b.</li> <li>Essential Infrastructure in Flood Zone 3b will require the Exception Test.</li> </ul> </li> <li>Residential development is classified as 'More Vulnerable'.</li> </ul>		

Requirements and guidance for site-specific Flood Risk Assessment	<ul> <li>The site area includes the extents of Flood Zone 3b, also known as the functional floodplain. Only essential infrastructure passing the Exception Test is permitted within Flood Zone 3b. Should there be any development within Flood Zone 3b flood storage lost by the development must be offset.</li> <li>The site extents include the modelled 100-year + 50% climate change flood outline. Any development should consider the future flood risk impacts onsite and the impacts the development may have upon future flood flows.</li> <li>An ordinary watercourse is within or immediately adjacent to the site area and therefore consultation with Lead Local Flood Authority should be completed. If alterations or discharges are proposed to the watercourse a land drainage consent will be required.</li> <li>More detailed hydraulic modelling using channel survey may be required as part of a site-specific Flood Risk Assessment, to confirm flood risk shown in the 2D generalised modelling.</li> <li>Resilience measures will be required if buildings are situated in the flood risk area through the centre of the site's boundary. Raising Finished Floor Levels above the design event may remove the need for resilience measures.</li> <li>Onsite attenuation schemes would need to be tested against the unnamed watercourse along the boundary of the site to ensure flows are not exacerbated downstream within the catchment.</li> <li>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.</li> <li>Water quality requirements for sustainable development should comply with current SuDS guidance.</li> <li>Assessment for runoff should include allowance for climate change effects.</li> <li>Safe access and egress will need to be demonstrated.</li> <li>New development must seek opportunities to reduce overall level of flood risk at the site, for example by:         <ul> <li>Reducing volume and rat</li></ul></li></ul>		
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Th	The Flood Zones have been derived from 2D generalised modelling techniques.  The climate change allowances for the '2080s' epoch were modelled using 2D		
Surface Water Tr	generalised modelling techniques.  The Environment Agency's Risk of Flooding from Surface Water has been used to define areas at risk from surface water flooding.		



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Fluvial depth, velocity and hazard mapping		Depth, velocity and hazard mapping for the 1 in 100-year event (Flood Zone 3 have been taken from 2D generalised modelling techniques.		
Surface water depth, velocity and hazard mapping		The surface water depth, velocity and hazard mapping for the 1 in 100-year ev (considered to be medium risk) is taken Environment Agency's Risk of Flood from Surface Water.		