

Site details	Site Code	Site LPR30 – Land east of Groby cemetery, Groby					
	Area	4.41 hectares					
	Current land use	Greenfield					
	Proposed land use	Residential					
	Existing drainage features	An unnamed tributary of Rothley Brook flows eastwards along the northern boundary and then from north to south along the eastern boundary of the site.					
			Pı	roportion of	site at ris	k	
		FZ3b		FZ3a	FZ2		FZ1
		8%		9%	11%		89%
Sources of	Fluvial	Flood risk to the site is associated with the unnamed watercourse flowing along the northern and eastern site boundaries and is concentrated in the north-eastern corner of the site. Along the eastern site boundary all Flood Zones are mainly confined to the channel.					
flood risk		Р	ropor	tion of site	at risk (Ro	FfSW	/)
		30-year		100-у	ear		1,000-year
	Surface Water	5%		7%			16%
	Curiace Water	Surface water flood risk is mainly concentrated around the watercourse along the site boundary with additional ponding away from the channel in the north-eastern corner of the site at all events. Surface water ponding from the 1,000-year event extends further into the site.					
	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 Leicestershi County Council or the Environment Agency historic flooding map.					
	Defences	Defence Typ	е	Standa Protec			Condition
		-		-			-
Flood risk		This site is not protected by any formal flood defences.					
management infrastructure	Residual risk	There is a culvert beneath Sacheverell Way approximately 120m to the south of the site. If this structure was to block, flood extents in the site could increase; there is already an area of ponding here in the Flood Zones and surface water mapping extent. The potential for blockage may need to be considered in a site-specific assessment.					
	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 this site is available via Ratby Road and Sacheverll Way in all fluvial events. In all surface water events, parts of Ratby Road, Groby Road and Sacheverll Way are flooded, potentially limiting access for emergency vehicles, depending on the depth and hazard of flooding. 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 allowances for '2080s'	River Basin District	Central	Higher Central	Upper End		
		Humber	20%	30%	50%		
Climate Change	Implications for the site	Fluvial extents from climate change did not increase significantly when compared with FZ3a. Minor increases can be seen along the eastern boundary of the site. 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	extent can be used as an indication of surface water climate change			ction Zone. Mapping -infiltrating um risk of permeable. otential for the avoided Il forms of the egress of the maybe the slopes ms to slow undwater. previously re County as well as		



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NPPF and planning implications	Exception Test requirements	 The Sequential Test will need to be passed before the Exception Test is applied. The Exception Test will need to be applied 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. Residential development is classified as 'More Vulnerable'. 			



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	Requirements and guidance for site-specific Flood Risk Assessment	 Consultation with the Local Authority, Local Lead Flood Authority and the Environment Agency should be undertaken at an early stage. 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 or is greater than one hectare. A Flood Risk Assessment must consider the entire lifetime of the development and consider all sources of flooding. The site area includes the Flood Zone 2 extents. Most development types are appropriate for this flood risk zone but must take into account the flood risk (1% to 0.1% annual exceedance probability). The site area includes the Flood Zone 3a extents. Future development must take into account the flood risk in this area (5% to 1% annual exceedance probability). More vulnerable and critical infrastructure development is possible within Flood Zone 3a but is required to pass the Exception Test. Highly vulnerable development is not permitted within Flood Zone 3a. 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 must be offset. 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. 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. Onsite attenuation schemes would need to be tested against the unnamed watercourse along the eastern site boundary to ensure flows are not exacerbated downstream within the catchment. New or re-development should adopt exemplar source control SuDS techniques to reduce the risk of frequent low impact flooding due to post-development			



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Mapping Information					
Flood Zones		The Flood Zones have been derived from 2D generalised modelling techniques.			
Climate change		The climate change allowances for the '2080s' epoch were modelled using 2D generalised modelling techniques.			
Surface Water		The Environment Agency's Risk of Flooding from Surface Water has been used to define areas at risk from surface water flooding.			
Fluvial depth, velocity and hazard mapping		Depth, velocity and hazard mapping for the 1 in 100-year event (Flood Zone 3a) 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 ever (considered to be medium risk) is taken Environment Agency's Risk of Floodin from Surface Water.			