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Completed by	JBA consulting		
Date	March 2019		
Author	Freyja Scarborough		
Reviewer / Sign-off	Hannah Coogan		
Version Number	Version 3.0		

Level 2 Community Level Guidance Tables					
Community	Community	Emneth			
Community details	Flood Risk	Highest risk floodi	ng mechanism	Surfac	e water
uetans	Summary	Most likely source of flooding Surface water (very le			r (very low risk)
	Existing drainage features				
	Fluvial	No			
	Tidal	Small impact in FI			
	Surface Water	Small impact from in the 0.1% AEP e	3.3% AEP event a events.	nd 1% and more s	ignificant impact
	Residual Risk	No			
Sources of flood risk	IDB watercourse present?	 This community is completely covered by the King's Lynn Internal Drainage Board (IDB), in the admin area of the Water Management Alliance (WMA). There are a number of IDB drains under the remit of King's Lynn IDB, which have an influence on the community. Middle Level Commissioners IDB 'Hundred of Wisbech IDB' lies to the immediate south-west of Emneth. 			
	Flood history	 The Environment Agency recorded flood outlines dataset indicates no record of flooding. The provided Section 19 data for the flooding in Summer 2014 shows internal flooding of several properties in Emneth resulting from surface water flooding, overloading of fluvial watercourses and the high groundwater table. An internet search also provided visual evidence of flooding in Summer 2014 in Emneth. There are records of sewer flooding in this community from September 2014 and February 2015. 			
F land sink		Defence Type	Flooding Type	Standard of	Condition
Flood risk management	Defences		-	Protection	_
infrastructure		N/A			
Opportunities	Asset management	No EA pipeline schemes at or near this community.			
for sustainable development	Capital investment policy and regeneration	No current schemes identified for this community.			

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Community Emneth				
Community details	Flood Risk	Highest risk flooding mecha	anism	Surface water
uetalis	Summary	Most likely source of floodir	ng	Surface water (very low risk)
	Higher level policy	 Emneth is within the Great Ouse Catchment Flood Management Plan and sub area 10, the Fens. Within this sub-area the current flood risk is appropriately managed. However, the risk is expected to significantly rise in the future due to the impacts from climate change. Actions should be taken to manage the increase in risk. The Emneth community is designated as low-lying fenland in the hinterland of the Wash Shoreline Management Plan (SMP) 2 and is protected by defences along the wash coastline and therefore relevant to the SMP. The policy within this area (PDZ1) is to maintain the current defences into the future, considering an 'envelope of potential developments' for all future scenarios. CFMP/ SMP policies set the high level and strategic direction for flood risk and coastal change management. There is no guarantee that funding will be available from national, regional or local sources to implement the policy. More detailed strategy and scheme work considers funding needs and availability at a community level. 		
Emergency	Flood warning	The community is partially covered by the 'East of Wisbech along the A47 to Terrington St John and surrounding areas' Flood Alert area and the and 'Tidal river from Denver to south of King's Lynn' Flood Warning Service.		
planning		 Possible during all affected tidal events apart from a sr inundation to the cost of the community. 		
	Access and	inundation to the east of the community.		
	egress	 Access and egress is possible apart from a few isolated areas to the east of the community in the all surface water events 		
Climate Change	Implications for the community	There is a small increase in the impact of surface water when taking into account the future effects of climate change.		
Requirements		Bedrock Geology		e, siltstone and sandstone
for drainage	Broad scale assessment of possible SuDS	Superficial Geology	Clay and	
control and		Soil Type	-	high groundwater
impact mitigation		Groundwater Source Protection Zone	No	
migation		Historic Landfill Site		ea along the west of community bech Canal.

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		 available for this community, assessment is limited and th determined by on-site investi Source control techniques community. Infiltration techniques will be a site not at high or medium of the community have be further site investigation s potential for drainage by infilt Detention features may be <5% at the location of the groundwater issues, then a contamination is a risk to the to mitigate against potential of Filtration systems are probare <5% and the depth to the groundwater issues, then a li All forms of conveyance feat Where slopes are >5%, feature utilise check dams to slow flow 	are likely to be suitable for this suitable proving there are areas of ground water flood risk. As areas en designated as historic landfill, hould be carried out to assess tration. feasible providing site slopes are detention feature. If the site has a liner will be required. If landfill e site, then a liner may be required contamination issues. ably suitable providing site slopes e water table is >1m. If the site has iner will be required. ures are likely to be suitable. ares should follow contours or bws	
NPPF and planning implications	Existing Local Considerations	 Emneth is identified as a Key Rural Service Centre in King's Lynn and West Norfolk Borough Council's Local Plan. An area of 1.1 hectares in Emneth has been allocated with residential development of at least 36 new dwellings, according to the Local Plan. 		

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	Community	Emneth		
Community	Flood Risk	Highest risk flooding mechanism Surface water		
details	Summary			
	Requirements and guidance for site-specific Flood Risk Assessment	Most likely source of flooding Surface water (very low risk) • New development must seek opportunities to reduce overall level of surface water flood risk at the community. • The Flood Risk Assessment (FRA) should address all forms of flood risk (coastal inundation, fluvial, pluvial and groundwater). • Investigate impacts of climate change on fluvial, tidal and surface water flooding. • Green infrastructure should be considered within the mitigation measures for surface water runoff. • Ensure safe access and egress due to the impact of climate change on additional surface water flooding. • This community has areas within its boundary designated by the Environment Agency as being a landfill site. A thorough ground investigation will be required as part of a detailed site-specific 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 (Loca Planning Authority, Lead Local Flood Authority and Environment Agency) at an early stage to understand possible constraints. • Areas Susceptible to Groundwater Flooding data is not available for this community, as such the potential of broadscale assessment is limited and the suitability of SuDS will need to be determined by on-site investigations. • Investigate impacts of tidal breach. • Detailed hydraulic modelling will need to consider any drains within and surrounding the community that are likely to affect the site to assess fluvial flood risk in the community		
			Fluvial Surface Water o Risk 3.3% AEP	
	isions and nendations	 The community is mainly v An area of 1.1 hectares in residential development of to the Local Plan. Recent flood history from s 2014. Consider mitigation for sur Ensure safe access and end 	vithin Flood Zone 1 Emneth has been allocated with at least 36 new dwellings, according surface water flooding from Summer face water flooding gress. WMA and MLC (where relevant) is	

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Flood Zones		Compiled from the Environment Agency supplied outlines of the		
tidal Wash Model, 2018.				