Completed by	JBA consulting			
Date	March 2019			
Author	Freyja Scarborough			
Reviewer / Sign-off	Hannah Coogan			
Version Number	Version 2.0			

Level 2 Community Level Guidance Tables						
Community	Community	Terrington St Joh	n (St Johns Highwa	y) and Tilney St La	wrence	
Community details	Flood Risk	Highest risk flood	ing mechanism	Tidal /	Coastal	
	Summary	Most likely source	<u> </u>		ter (minimal)	
	Existing drainage features	the com There a culvert s	 There is one area of open watercourse between culvert within the community along St John's Road. There are multiple small areas of open watercourse between culvert surrounding the community, the main concentration of these is to the south-eastern corner. 			
	Fluvial	No				
	Tidal		he community is su			
	Surface Water	Small impact from 3.3% and 1% AEP events with an increased impact in the 0.1% AEP event.				
Sources of	Residual Risk	•	om breach on the T			
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). The following drains are near this community: Mill Road Drain Ely Road Drain Five Mile Drain Reeds Drain School Road Drain 				
	Flood history	The Environment Agency's recorded flood outline, provided Section 19 data, internet search and sewer flooding records indicate no records of historic flooding.				
	Defences	Defence Type	Flooding Type	Standard of Protection	Condition	
Flood risk		Embankment (x6)	Fluvial	100	3 (Fair)	
management		Wall (x4)	Fluvial	100	3 (Fair)	
infrastructure		Embankment (x2)	Tidal	100	3 (Fair)	
		The majority of the community is within an area benefiting from defences as identified in the Environment Agency's dataset.				
Opportunities for	Asset management	No EA pipeline schemes at or near this community.				
sustainable development	Capital investment policy and regeneration	No current schemes identified for this community.				

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Community	Community			
Community details	Flood Risk Summary	Highest risk flooding me	chanism	Tidal / Coastal
detano		Most likely source of floo	oding	Surface Water (minimal)
	Higher level policy	 This area 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 with impacts from climate change. Actions should be taken to manage the increase in risk. Terrington St John (SJH) and Tilney St Lawrence 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 is 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 planning	Flood warning	 The entire community is covered by the Environment Agency Flood Warning Services. Terrington St John by 'East of Wisbech along the A47 to Terrington St John and Surrounding areas'. Tilney St Lawrence by 'Tidal River Great Ouse west bank breach from the Wiggenhalls to Outwell'. The community is covered by the 'Tidal River from Denver to south of King's Lynn' Environment Agency Flood Alert Service. 		
	Access and egress	 Dry access and egress is possible in the 5% AEP tidal event but the community is inundated in other AEP events. Localised access and egress issues in surface water flood 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. Climate change modelling does not show any impact to the defended tidal scenario (which assumes no breach occurs). However, it may have a significant impact on the frequency and severity of storm surges which have not been modelled for the SFRA. 		
Requirements	Broad scale assessment of possible SuDS	Bedrock Geology	Mudstone	
for drainage		Superficial Geology	Clay and sil	
control and		Soil Type		gh groundwater
impact mitigation		Groundwater Source Protection Zone	No	
migation		Historic Landfill Site	No	

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Community in	Community	Terrington St John (St Johns Highway) and Tilney St Lawrence		
Community details	Flood Risk	Highest risk flooding mechanism	Tidal / Coastal	
uctans	Summary	Most likely source of flooding	Surface Water (minimal)	
		 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. Source control techniques are likely to be suitable for this community. Infiltration techniques will be suitable proving there are areas of the site not at high or medium ground water flood risk. Detention features may be feasible providing site slopes are <5% at the location of the detention feature. If the site has groundwater issues, then a liner will be required. Filtration systems are probably suitable providing site slopes are <5% and the depth to the water table is >1m. If the site has groundwater issues, then a liner will be required. All forms of conveyance features are likely to be suitable. Where slopes are >5%, features should follow contours or utilise check dams to slow flows. 		
NPPF and planning implications	Existing Local Considerations	 The Borough Council's Local Plan has designated St. John's Highway and Tilney St. Lawrence as a joint Key Rural Service Centre, alongside Terrington St. John. The Council has allocated 35 new dwellings to Terrington St. John and 40 new dwellings to Tilney St. Lawrence. One of the proposed development sites is located in a lower flood risk area compared to other sites. Appropriate mitigation measures should be enforced. Terrington St John is preparing a Neighbourhood Plan. The community is entirely within an area benefiting from flood defences. Developers should liaise with the Environment Agency and consider whether a financial contribution towards the long-term maintenance and/ or upgrade of the defences would be appropriate to help safeguard against increasing flood risk over the lifetime of the development. 		

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Level 2 Community Level Guidance Tables					
Community	Community Terrington St John (St Johns Highway) and Tilney St Lawrence				
details	Flood Risk	Highest risk flooding mechanism	Tidal / Coastal		
actans	Summary	Most likely source of flooding	Surface Water (minimal)		
	Requirements and guidance for site - specific Flood Risk Assessment	 Early consultation with WMA is strongly recommended in this area. Safe access and egress will need to be considered, taking into account the additional impact of climate change. An FRA should also suggest appropriate mitigation (flood resilience measures). A Flood Risk Assessment (FRA) should suggest appropriate mitigation (flood resilience measures). A Flood Risk Assessment (FRA) should suggest appropriate mitigation (flood resilience measures). A Flood Risk Assessment (FRA) should suggest appropriate mitigation (flood resilience measures). A reas Susceptible to Groundwater Flooding data availability was limited 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. Any SuDS measures should be applied using the guidance provided by the Lead Local Flood Authority. Consider the impact of a tidal breach by sequentially placing the highest vulnerability part of the development in the areas of lowest flood risk, applying the Councils Flood Risk Design Guidance and creating a site-specific emergency plan for flood events. The FRA should address all forms of flood risk (tidal, fluvial, pluvial and groundwater). The FRA must demonstrate how the development would provide wider sustainability benefits to the community that outweigh the risk associated with flooding and that the development would be safe for its lifetime without increasing flood risk elsewhere and, where possible, would reduce flood risk verall. Investigate the impacts of climate change on increased tidal flooding at the site. 			
		Tidal and Coastal Fluv			
Conclusions and recommendations		0.5% AEP and Breach No Risk 3.3% AEP • The community is mostly within an area benefiting from flood defences. • Consider contributions to the defences protecting the community. • The Council has allocated 35 new dwellings to Terrington St. John and 40 new dwellings to Tilney St. Lawrence. Appropriate flood mitigation measures should be enforced. • Most of the community is in Flood Zone 3a. • No records of historical flooding. • Consider the impacts of tidal breach. • Early consultation with WMA is strongly recommended in this area. • In a major tidal event the community could be completely cut off and emergency planning implications for new development are critical			
Mapping Information					

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	Summary	Most likely source of flooding	Surface Water (minimal)	
Flood Zones		All Flood Zone information has been compiled from the outputs of The Wash, 2018 tidal model.		