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

	Community	West Walton and West Walton Highway					
Community details	Flood Risk	Highest risk flood	Highest risk flooding mechanism Tidal / Coastal				
uetans	Summary	Most likely source	of flooding	Surfac	e Water		
	Existing drainage features		There are numerous small areas of open watercourse between culverts mainly concentrated along the western community boundaries.				
	Fluvial	Indicative Flood Z	Indicative Flood Zone 3b encroaches on the western tip of West Walton.				
	Tidal	Almost complete coverage by the 0.5% AEP event.					
	Surface Water	Minor impact from	Minor impact from 3.3% AEP return period event and above.				
Sources of	Residual Risk	Large impact from	Large impact from breach on the Tidal River Nene.				
Sources of flood risk	IDB watercourse present?	 This community is entirely covered by the King's Lynn IDB, in the admin area of the WLMA. The drains influencing the community are: School Road Drain Hartfords Dyke Drain Salts Road Drain Common Road Drain Playing Field Dyke Drain 					
	Flood history	 There are no records of historical flooding in the Environment Agency recorded flood outlines, provided Section 19 reports and internet searches. There are records of sewer flooding in this community from February 2013. 					
	Defences	Defence Type	Flood risk management infrastructure	Defences	Defence Type		
Flood risk management		Embankment (x4)	Coastal	200	Embankment (x4)		
infrastructure		 The areas benefiting from defences information covers most of Walton Highway and encroaches West Walton from the east. Tidal defences benefit this community from the Tidal Nene on the West of the community. 					
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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uctuno	Summary	Most likely source of floo	· ·	Surface Water
	Higher level policy	Settlement not explicitly mentioned in any higher-level policy documents. 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. This area is designated as low-lying fenland in the hinterland of the Wash Shoreline Management Plan (SMP) 2 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.		
	Flood warning	 The community is covered by the 'East of Wisbech along the A47 to Terrington St John and surrounding areas' Flood Warning Area. The community is covered by the 'Tidal River from Denver to south of King's Lynn' Flood Alert Area. 		
Emergency planning	Access and egress	 Access and egress is possible in a 5% AEP fluvial or ti event except the small area of inundation to the west West Walton. Above the 0.5% AEP period tidal event, access and egre routes out of the communities will not be possible. Some minor local impacts on access and egress in w Walton during the 0.1% AEP surface water event. 		area of inundation to the west of eriod tidal event, access and egress inities will not be possible. cts on access and egress in west
Climate Change	Implications for the community	 Climate change modelling does not show any impact to the surface water or 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 silt	
control and		Soil Type		gh groundwater
impact		Groundwater Source Protection Zone	No	
mitigation		Historic Landfill Site	No	

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		 AStGWF data is not available for this site, as such th potential of broadscale assessment is limited and th suitability of SuDS will need to be determined by on-sit investigations. Source control techniques are likely to be suitable for thi site. Infiltration techniques will be suitable proving there ar areas of the site not at high or medium ground water floor risk. Detention features may be feasible providing site slope are <5% at the location of the detention feature. groundwater is a risk to the site, then a liner may be required to mitigate against potential contamination issues Filtration systems are probably suitable providing sit slopes are <5% and the depth to the water table is >1m. 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 grouped West Walton and Walton Highway together to form a Key Rural Service Centre. The two preferred development sites are located in Flood Zone 2 and are capable of accommodating a maximum of 20 dwellings. The community benefits from a large number of defences both coastal defences to the north and tidal defences from the River Great Ouse to the east of the community and from the Tidal Nene on the West of the community. It should be considered, to mitigate the impacts of flooding in this community, that a contribution to the maintenance and or replacement of this defence infrastructure may be considered to assist with safeguarding of residual risk from defence breach within the community. This is especially relevant due to the residual impacts of tidal breach from The River Nene and River Great Ouse as well as the impacts of climate change on the community. 		

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	Requirements and guidance for site - specific Flood Risk Assessment	 this area. The FRA should address inundation, tidal flooding. Investigate the impacts sources on the site. Safe access and egress into account the addition FRA should also sugresilience) measures and for the site. AStGWF data availability the potential of broads suitability of SuDS will investigations. Any Su using the guidance prov. Consideration needs to breach on the site by in velocities of flood water. Detailed hydraulic mood drains within and surrou to affect the site to community (including should also seek to unafrom culvert blockage to along these watercourse. The FRA must demonoprovide wider sustainate outweigh the risk assodevelopment would to the site to community would to the subtrained to along these watercourse. 	b be given to the impacts of tidal nvestigating changes in depths and s at the site. delling will need to consider any unding the settlement that are likely assess fluvial flood risk in the IDB drains). Hydraulic modelling derstand the impact of residual risk o any proposed site from structures es. strate how the development would bility benefits to the community that bolity benefits to the community that bolity benefits to the community that bolity benefits to the community that bolity benefits to the community that bolity benefits to the community that bolity benefits to the community that bol

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uetans	Summary	Most likely source of floo	oding	Surface Water		
		Tidal and Coastal	Fluvia			
		200-year and Breach	5% AB			
Conclusions and recommendations		 The two preferred development sites highlighted in the Local Plan are located in Flood Zone 2 and are capable of accommodating a maximum of 20 dwellings. The community is mostly within an area benefiting from flood defences. Consider contributions to the defences protecting the settlement. Majority of the settlement located in Flood Zone 3a. No historical flooding recorded. No additional impacts of fluvial and tidal climate change however the impact of climate change is highlighted for this area in higher level policy considerations. Consider the impacts of tidal breach. Consideration of safe access and egress. Early consultation with WLMA is strongly recommended in this area. 				
		Mapping Informati				
 Flood Zones Indicative Flood Zone 3b is comprised from En Agency Flood Zone 3 containing fluvial model out Flood Zone 3a is comprised of Environment supplied outlines from the tidal Wash 2018 mod from Environment Agency Flood Zones 3 contai model outlines. Flood Zone 2 is comprised of Environment supplied outlines from the tidal Wash, 2018 mod from Environment Agency Flood Zone 2 contain model outlines. 		ntaining fluvial model outlines. mprised of Environment Agency ne tidal Wash 2018 modelling and cy Flood Zones 3 containing fluvial mprised of Environment Agency ne tidal Wash, 2018 modelling and				