

King's Lynn and West Norfolk Borough Strategic Flood Risk Assessment Level 2 Community Level Guidance Tables

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

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|---|---|--|----------------------|-------------------------------|------------------|
| Community details | Community | Burnham Market | | | |
| | Flood Risk Summary | Highest risk flooding mechanism | Surface Water | | |
| | | Most likely source of flooding | Surface Water | | |
| Sources of flood risk | Existing drainage features | The Goose Beck runs through the centre of the settlement from West to East. This drainage feature runs parallel to Church Walk and Front Street B1155. | | | |
| | Fluvial | Yes – largely from the Goose Beck, which is ephemeral groundwater fed stream that flows through the village centre | | | |
| | Tidal | No | | | |
| | Surface Water | Yes | | | |
| | Residual Risk | Small residual risk from tidal breach in the east of the community from the River Burn and Burnham Norton Sluice. | | | |
| | IDB watercourse present? | The Norfolk Rivers Internal Drainage Board (IDB) is situated close to the eastern boundary of Burnham Market, in the admin area of the Water Management Alliance (WMA). There are no IDB drains that influence the community. | | | |
| | Flood history | No incidents of flooding have been recorded in supplied datasets. | | | |
| Flood risk management infrastructure | Defences | Defence Type | Flooding Type | Standard of Protection | Condition |
| | | - | - | - | - |
| | | <ul style="list-style-type: none"> Defences within the vicinity of this settlement are natural flood defences to protect from fluvial flooding which does not impact the community. The area benefitting from defences information does not extend into this community but does impact on access and egress to the north and east. | | | |
| Opportunities for sustainable development | Asset management | No EA pipeline schemes at or near this community. | | | |
| | Capital investment policy and regeneration | No current schemes identified for this community. | | | |

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| | Higher level policy | <ul style="list-style-type: none"> This community is not explicitly mentioned in any higher-level policy documents. This area is within the North Norfolk Catchment Flood Management Plan, part of the Rural Areas sub-area. Within this sub-area, current flood mitigation is out of proportion to the level of flood risk or is not effective. In areas where the flood risk is higher, the level of flood management may be continued. However, in other areas the management will be reduced. This area is covered by the North Norfolk Shoreline Management Plan (SMP), super frontage 2. The policy that covers this area looks at the possibility of gradually increasing the natural processes while still maintaining a flood defence. 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 settlement is not covered by any Environment Agency Flood Warning or Flood Alert services. | |
| | Access and egress | Safe access and egress is possible during all fluvial and tidal events. In the event of surface water flooding dry access and egress will be limited in the 1% AEP event and will not be possible in the 0.1% AEP event | |
| Climate Change | Implications for the community | <ul style="list-style-type: none"> Small impact from tidal flooding in both tidal climate change scenarios in the east of the community. There is a visible increase in the extent of surface water flooding when taking into account the future effects of climate change. | |
| Requirements for drainage control and impact mitigation | Broad scale assessment of possible SuDS | Bedrock Geology | Northern and Western areas – Chalk Western areas – Sedimentary mudstone |
| | | Superficial Geology | Central – Clay, Silt, Sand and Gravel East - Peat |
| | | Soil Type | Freely draining. |
| | | Groundwater Source Protection Zone | No |
| | | Historic Landfill Site | No |

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| | | <ul style="list-style-type: none"> Source control techniques are likely to be suitable for this community. Mapping suggest groundwater flooding may be an issue for this community, providing the site is not at medium to high risk from groundwater flooding infiltration techniques may be suitable. Detention features may be feasible providing site slopes are <5% at the location of the detention feature. If 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 site slopes are <5% and the depth to the water table is >1m. If the site is at risk from groundwater, 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 | <ul style="list-style-type: none"> Burnham Market is identified as a key rural service centre in the Housing and Economic Land Availability Assessment 2014. The Sustainability Appraisal, 2015 identifies Burnham Market as having several areas of Flood Zone 1 available for development potential. | | |
| | Requirements and guidance for site - specific Flood Risk Assessment | <ul style="list-style-type: none"> New development must seek opportunities to reduce overall level of surface water flood risk for the community. Safe access and egress must be demonstrated from the development, especially considering the impact of surface water on this settlement. River of flooding from the Goose Beck and other small drains and culverts should be investigated, including culvert blockage modelling where appropriate Green infrastructure should be considered within the mitigation measures for surface water runoff from potential development and consider using areas of high surface water flood risk. This area is suitable for SuDS and these should be applied using the guidance provided by the Lead Local Flood Authority. Climate change causes the community to be influenced by tidal flooding on the eastern boundary, this impact should be considered. | | |
| Conclusions and recommendations | | Tidal and Coastal | Fluvial | Surface Water |
| | | Breach | Low risk | 3.3% AEP |
| | | <ul style="list-style-type: none"> There are limited records of historical flooding. The settlement is considered to be in an area suitable for SuDS. The settlement is situated within Flood Zone 1. Consider mitigation for surface water flooding depending on site location. Consider the influence of tidal breach and tidal influence under climate change. | | |
| Mapping Information | | | | |

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| Flood Zones | | Comprised of fluvial River Burn, 2010 supplied model outlines and tidal Wells next the Sea, 2017 supplied model outlines. | |