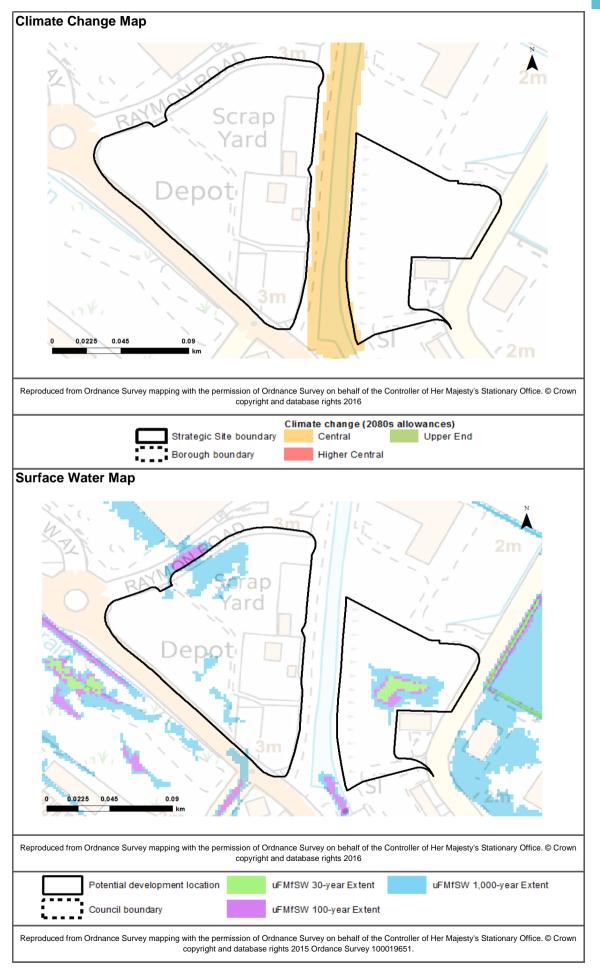


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SuDS Type	Suitability	Comments
Source Control		Most source control techniques are likely to be suitable. Mapping suggests tha permeable paving may have to use non-infiltrating systems given the possible risk from groundwater and that the site is classified as Brownfield.
Infiltration		Infiltration may be suitable. Mapping suggests a medium risk of groundwater flooding and underlying soils may be permeable. Further site investigation should be carried out to assess potential for drainage by infiltration. If infiltration is suitable it should be avoided in areas where the depth to the water table is <1m.
Detention		Mapping suggests that the site slopes are suitable for all forms of detention. A liner may be required to prevent the egress of groundwater or if there are any contamination issues.
Filtration		All filtration techniques are likely to be suitable. A liner may be required to prevent the egress of groundwater or if there are any contamination issues.
Conveyance		All forms of conveyance are likely to be suitable. Where the slopes are >5% features should follow contours or utilise check dams to slow flows. A liner may be required to prevent the egress of groundwater and if there are any contamination issues.
Drainage strategi depends on the fa	actors such as the	features should follow contours or utilise check dams to slow flows. A liner be required to prevent the egress of groundwater and if there are any

Flood Defences:

There are no flood defences at this site.

Emergency Planning:

This site is partially covered by the Middle Level Commissioner Area Flood Warning Area

Access & Egress:

St Mary's Road to the north and Stocking Fen Road to the east of the site, is shown to be at risk in a 1% AEP event. However, safe access and egress can be provided via Great Whyte which is not affected by flood risk.

Climate Change:

Climate change modelling suggests High Lode will remain in bank for a 1% AEP event with all three 2080 climate change allowances applied.

Climate change may increase the extent and depth of surface water flooding in the future to the extent that it may affect the site.

Implications for Development:

Use of the Sequential Approach will be required to place vulnerable development outside of high risk areas. Given the majority of the site is located in Flood Zones 2 and 3 this may restrict the type and amount of development within the site.

Access and egress is potentially at risk from fluvial flooding; however, there is an alternative safe access route along Great Whyte.

Broadscale assessment of suitable SuDS has indicated a number of different types may be possible; however, given the size of the site and the proportion of the site at risk from flooding, the type of SuDS system used may be influenced by amount of land available; depending on the system used there may be an impact on the amount of land available for development and the cost of development.

The site is partially covered by the Environment Agency's Flood Warning Service. Depending on thel access and egress route development may need to consider provision of safe refuge in the event of occupiers being unable to evacuate.

The site is not known to benefit from any flood defences. Given the size and location of the site, it is unlikely the site itself could be used to implement strategic solutions to alleviate flood risk elsewhere in the catchment.



Guidance for Developers:

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.

Mapping in this table is based on the Flood Map for Planning. A detailed model will be required of High Lode to assess the extent of flood risk to the site including residual risk in the event of breach or overtopping of the embankments. Where a site specific FRA has produced modelling outlines which differ from the Flood Map for Planning then a full evidence based review would be required; where this is acceptable to the EA then amendments to the Flood Map for

Planning may take place

Resilience measures will be required if buildings are situated in the flood risk area.

The peak flows on High Lode should be considered when considering drainage.

Assessment for runoff should include allowance for climate change effects.

New or re-development should adopt exemplar source control SuDS techniques to reduce the risk of frequent low impact flooding due to post-development runoff.

Onsite attenuation schemes would need to be tested against the hydrographs of High Lode to ensure flows are not exacerbated downstream within the catchment.

Development should be in accordance with the IDB by-laws and policies.

New development must seek opportunities to reduce overall level of flood risk at the site, for example by:

o Reducing volume and rate of runoff

o Relocating development to zones with lower flood risk

o Creating space for flooding.

o Green infrastructure should be considered within the mitigation measures for surface water runoff from potential development and consider using Flood Zones 2 and 3 as public open space.

Consultation with the Local Authority, The Commissioners, Ramsey, Upwood and Great Raveley IDB and the Environment Agency should be undertaken at an early stage.