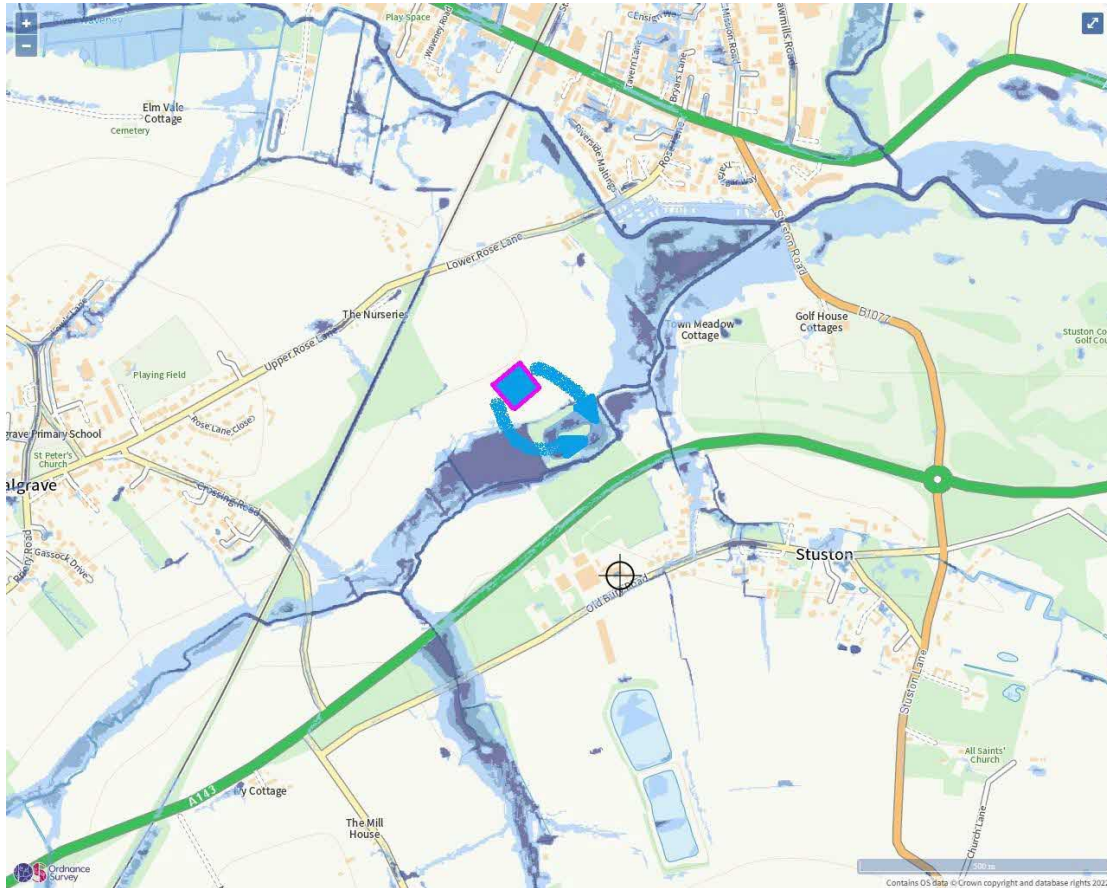


August 3, 2022

Flood Risk Assessment winter storage reservoir at Place Farm, Stuston.



The footprint of the reservoir proposal is outside any flood plains, any uncontrolled release of water would spread out across the water meadows to the south and fill the existing lake within the adjacent woods.

Introduction.

A winter storage reservoir is proposed on the rising ground adjacent to the drained marshes north west of Stuston. The site is within an outcrop of Diamicton Till, this natural clay will be used to line the reservoir.

The proposed reservoir would fall within the ambit of the 1975 Reservoirs Act as amended by the Water Act, as such the design and construction will be scrutinised and Certificated by a Panel All Reservoirs Engineer nominated as the Construction Engineer. Whilst within the Act the structure would be subject to annual safety inspections.

Reservoir design.

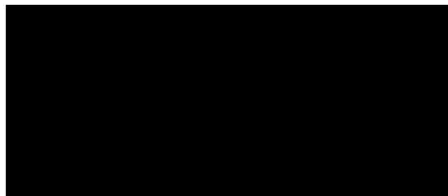
The works involves an engineering of the clay on site to form a balanced cut and fill reservoir. No soil will leave or be brought onto site. The reservoir's impermeable lining will be constructed from boulder clay, which is found beneath the site.

Theoretical uncontrolled release of water.

As can be seen from the flood map on page one, the flood path would flow south east to the drained marshes and an existing below ground reservoir. The water would eventually drain into the River Waveney to the north. There are no properties affected by a theoretical uncontrolled release of water.

Conclusion.

Due to the topography of this remote site on the edge of drained marsh land all theoretical breach discharges would flow south onto the marsh. There is no risk to dwellings.



Andrew Hawes