3.3 The application site between the fluvial River Welland and Coronation Channel is gravity drained via surface water sewers to the South / East where it is transported by open watercourses to the land drainage pumping station at Clay Lake. This sophisticated drainage system is controlled by the South Holland Internal Drainage Board.



FULNEY LOCK - CORONATION CHANNEL / TIDAL RIVER WELLAND

3.4 Automatically controlled, electrically driven, fixed pumping equipment is a common feature of modern land drainage systems and are routinely maintained to minimise breakdown during emergencies and back up power is available in the event of electrical failure.

3.5 The identified protection measures are as follows:

- The Wash sea defences.
- Tidal embankment between Fulney Lock and Marsh Road Sluice.
- Right hand bank of the fluvial River Welland upstream from Fulney Lock.
- Left hand embankment of the Coronation Channel.
- Fulney Lock and Marsh Road Sluice.
- Internal drainage infrastructure.
- Highway drainage system.

4. Potential Flooding Sources

4.1 Failure of any of the identified flood protection measures at a crucial time would potentially endanger to a greater or lesser degree the indicative flood plain area.

4.2 A breach or over-topping of The Wash sea-defences would have no effect on the application site as flood cell embankments are in place.

4.3 The tidal surge of January 1978 which compromised the tidal river defences of the River Welland resulted in major bank raising schemes in the areas around the Fulney Lock and Marsh Road Sluice, the SFRA gives the necessary 0.5% standard of protection.