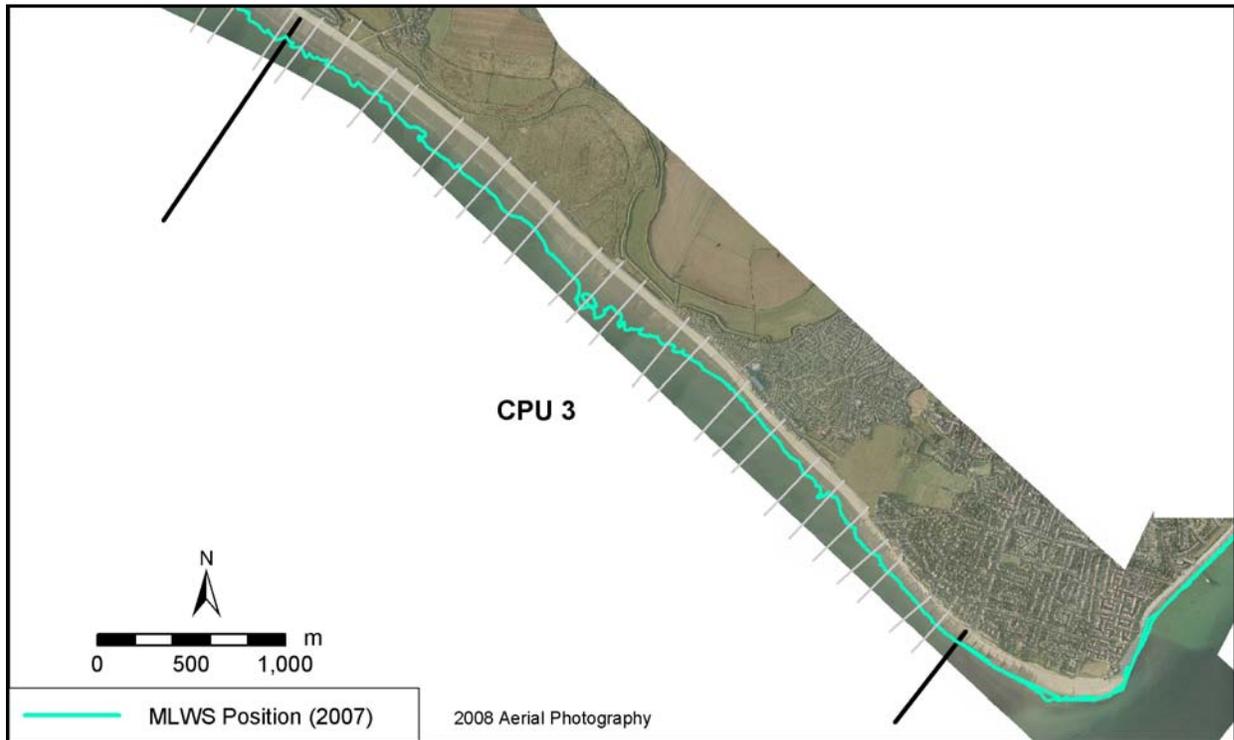


Policy Unit: 5a CPU3

West Beach to Bracklesham

Topographic Beach Profiles 5a00001 – 5a00094



Summary

The entire length of this frontage comprises a shingle storm ridge overlying a flat sandy foreshore, which is the main defence for the flood-prone hinterland. The flood risk area extends a considerable distance inland, far enough north to connect with Pagham Harbour. Existing beach management currently involves regular recycling and re-profiling of the beach face in order to prevent breaching of the barrier. Defences include a seawall in the eastern section, intermittent groyne throughout the unit and a revetment.

Survey Regime

Survey type	Frequency	Profile spacing/survey extent
<i>Topographic baseline</i>	5 years	50m to MLWS
<i>Topographic interim profile</i>	Spring & Autumn	150 - 300m to MLWS
<i>Bathymetry</i>	5 years	50m profiles, MLWN to 1km offshore
<i>Ortho-photography</i>	5 years	MLWN
<i>Non-rectified aerial photography</i>	Annual	MLWN
<i>Lidar</i>	Years 1 & 4	MLWN
<i>Habitat mapping</i>	5 Years	Extent of ortho-photography

Summary of beach operations

Limited information exists for management activities within this unit especially with respect to re-profiling and recycling activities. Some information does exist for replenishments. Between the months of September and April, there are 2 bulldozers continually on site for re-profiling.

2003/04 - Imported 7,500 tonnes of shingle (D_{50} 40 - 70mm) from the black gate west. The shingle was placed on the back of the defence. Shingle was also won from the bank itself by lowering the crest from around 6.5m to about 5.25m. The result was a much wider crest and a shallower profile on the front. Sand was observed to be building up the face of the defence for the first time in many years. This allowed the bank to overtop rather than breach.

2004/05 - Imported a further 7,500 tonnes of shingle, to the windmill end where the gap between the earth and shingle bank was filled. The crest was slightly lowered again, with the remaining shingle filling in half the car park back at the black gate end.

2008/03 – 11,200m³ of shingle was removed from the back of the barrier between profile 5a00094 and 5a00076 (700m) and moved to the front of the barrier between profile 5a00048 and 5a00038 (434m). This was carried out to increase the average crest width in this region.

Full details of beach operations can be obtained from the Environment Agency