

# Lowestoft South Beach Monitoring Analysis and interpretation for recycling licence

Lowestoft, UK



Lowestoft South Beach

**Client:** Waveney District Council (WDC)

**Services provided:**

- collation of beach data
- trend analysis
- interpretation
- expert review of performance and impact of beach recycling
- expert advice on effect of recent groyne removal
- expert advice on effect of recycling on the standard of protection

Waveney District Council (WDC) had recently completed a beach recycling programme, carried out under a Marine Licence issued by the Marine Management Organisation (MMO). ENBE was commissioned to prepare an end-of-licence report to review the effect of the beach recycling activity on both the extraction and the deposition sites. The Council also required that the report included an interpretation of the broader coastal processes that affect beach levels at this site to inform decision making on future beach recycling. This interpretation was also to include a review of the impact of recent groyne removal.

ENBE collated and analysed a vast quantity of beach profile, bathymetric and aerial photography from a range of sources, converting and presenting the data to a common format to allow trends to be identified. Other information concerning this coastline was also reviewed and key factors extracted to build the broader picture of coastal processes. The work showed that recycling alone was not a complete answer to the problem of falling beaches but it was helping to slow the process of beach retreat at South Beach. The potential effects of sand removal further afield from the donor site were quantified with a view to assessing significance.

*“The Council regards ENBE as a leading practitioner in the intelligent interpretation of shoreline monitoring data within a frontage-wide context and was very pleased with the quality of the report which has led to Council to approach ENBE regarding studies of a similar nature at other locations.”*

Paul Patterson/ Coastal Engineer, Waveney District Council