

## Project Information:

<b>Employer's Representative</b>	Graham Harris (Shepway Council)
<b>Blackwell Role</b>	Main Contractor
<b>Form of Contract</b>	NEC3 Option A
<b>Contract Start</b>	February 2011
<b>Contract Period</b>	110 weeks
<b>Contract Value</b>	£0.54M

## Blackwell Site Management:

<b>Contracts Manager:</b>	Rob King
<b>Construction Manager:</b>	Keith Tate
<b>Project Quantity Surveyor:</b>	Marcus Welland

## Project Office:

**Head Office:**  
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## Services Include:

**Civil Engineering**    **Earthworks**    Geotechnical    Remediation



## Background:

The concrete sea-walls that protect the coastal frontage from Hythe to Folkestone Harbour, an area important for fishing and popular with tourists, were originally constructed in the 1930s and are showing signs of wear and tear. The on-going beach replenishment work being undertaken by Blackwell will reduce the risk of sea-wall failure and coastal flooding.

Blackwell's beach replenishment work is a 110 week framework contract with Shepway District Council. The need for this work is due to the long shore drift that occurs along this section of the coastline and requires beach material to be moved from east to west in order to maintain the desired beach profile. This comprises a 15m wide plateau area adjacent to the seawall and a 1 in 9 slope from this plateau down to the water's edge.

Assessing accurate production by conventional surveying methods is difficult, due to the fact that some of the material which is moved by the contractor during the low-tide periods is moved again by the sea during the high-tide periods. Consequently, Shepway District Council were particularly interested to learn about the Bell Fleetm@tic II telematics system which Blackwell are able to deploy through their fleet of Bell 30t and 40t dump-trucks.

In essence each of the dump-trucks is fitted with a GPS and transmitter/receiver unit which allow data to be gathered and stored on the onboard memory module, (including operational data and production data as well as the dump-truck's location and movements). This data provides useful production and performance statistics which is accessible via the Fleetm@tic website by Blackwell for onward transmission to Shepway District Council.

After Blackwell introduced this much more accurate system for monitoring and measuring production to Shepway District Council, this data gathering and retrieval system formed part of the beach replenishment contract and will be used for the next four phases of this 5-phase framework contract which continues until spring 2013.

## Key Processes:

The main element of the scheme involved the excavation of 65,000 tonnes of beach shingle from the eastern end of the beach, using 45t excavators, and its haulage with 30t and 40t dump-trucks to the western end where it was pushed out and re-profiled with a dozer.