

PROJECT SHEET

FELIXSTOWE COASTAL PROTECTION SCHEME
FELIXSTOWE, SUFFOLK, UNITED KINGDOM

BOSKALIS WESTMINSTER: SKILLS, RESOURCES, EXPERIENCE

Boskalis Westminster provides clients with tailored, project-specific solutions for dredge related services, as illustrated by the following project summary.

PROJECT DESCRIPTION

The project was awarded in July 2011 project had different facets with 25% beach recharge, 75% civil engineering work, 60% of which was rock work and only 15% concrete.

The contract was awarded for the construction of 9 groynes in 2011 and a further 9 to be built in 2012. However, the project was awarded in July 2011 and we were able to complete all 18 groynes by November 2011.

The Sospan Dau and Crestway combined to provide the 80,000m³ of new beach material.

From the start until the end, the level of Health and Safety was kept to a high standard. Using a NINA start-up meeting, combined with daily safety talks and the successful implementation of safety Hazardous Observation Cards (SHOC) made it an accident free work site.

Using latest state of the art survey equipment & knowledge (3D-views presented to the crane operators) enabled us making the groynes completely with machines.

FEATURES

Project Name	Felixstowe Coastal Protection Scheme
Client	Suffolk Coastal District Council
Contractor	Volker Stevin - Volker Stevin awarded subcontract to Westminster Dredging Company Ltd
Location	Felixstowe, Suffolk, United Kingdom
Execution period	Aug - Nov 2011 (allotted until Mar 2012)



- A** Location map
- B** Reclamation/recharge
- C** Soil Sampling



PROBLEM SOLVING

The site was located only meters from the promenade and therefore very near to residential housing. Executing the main works in either 24/7 shifts or tidal operations, the challenge was to inform all involved parties, including the public, about the day to day schedule and minimise the impact especially concerning noise. Working together with the main contractor's Public Liason Officer (PLO) and the project team, there was a continuous flow of information about the ongoing works . Through Liason Meetings, the community was able to understand the importance of the works to be done, which meant that the works could be executed as planned without unsettling the local community.

There were also challenges with the night work, in particular regarding the groyne construction. By minimising the numbers of staff required to work outside, reducing the amount of plant in operation at night and making sure there was plenty of lighting, works were executed with no accidents.

LESSONS LEARNED

Because the original sheme was postponed, the original work method of recharging the shingle was adapted by adding the (larger) hopper Crestway to work alongside the Sospan Dau for increased efficiency, reducing the time taken to complete the works. By using the floating line instead of a rainbowing technique, the potential danger to the public, with residencies in close proximity to the works, was eliminated.

SUSTAINABILITY AND THE ENVIRONMENT

Using a larger hopper dredger meant that the overall carbon footprint of this project was significantly reduced because shorter project execution period also meant lower fuel and other energy usage.



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- E** Survey
- F** Crestway pumping ashore
- G** Aerial image of rock works
- H** Rock works in progress



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