Littlehampton west training wall replacement

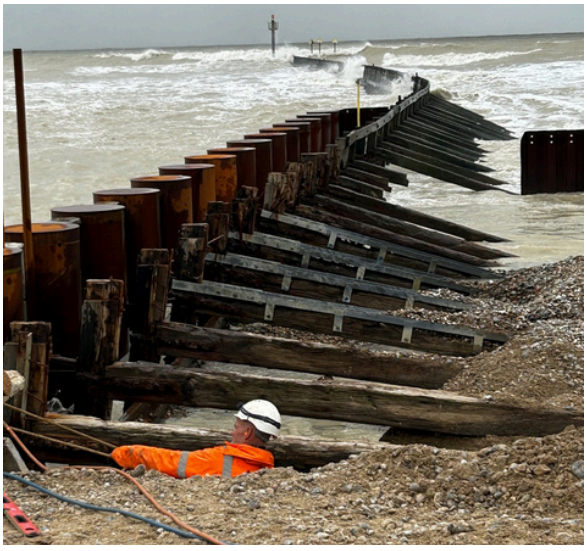
Project Profile

Duration: 9 weeks
Value: £1.2 m

Client: Littlehampton Harbour Board

Requirement:

The unusually narrow harbour entrance at Littlehampton drains a catchment of 966km2 including the Arun's main tributary, the Rother. The entrance to the harbour is protected from siltation through the presence of river training walls and piers at the mouth of the river, including the west training wall. These structures have intercepted beach drift since the earliest construction in 1736. Over the years these structures have been replaced to ensure the harbour remains operational, however these structures were, once again, nearing the end of their residual life. As such, there became an urgent requirement to reconstruct the 40m section of the damaged west training wall.



Solution:

TMS were engaged by Littlehampton Harbour Board to install a new combi-piled wall, in front of the existing entrance channel training wall, at the mouth of the river Arun. The sequencing of the works required the careful installation of the new combi-wall without comprising the remaining structural integrity of the existing timber training wall, which had suffered impact damage and was in a fragile state of repair. Once the combi-wall had been installed using only land-based plant, the timber wall and associated bracing could be demolished. This allowed the steel bracing and concrete foundation supports for the bracing to be constructed. The sheet pile section of the wall was capped with pre-cast concrete panels to match adjacent sections of this historic and strategic port asset. The concrete foundations were significant in size and buried some 3m below existing beach level, within the tidal range, leading to reduced construction times in this regularly storm hit section of the beach. Once the wall was complete, timber fenders and handrails were fitted, and the foreshore was re-profiled.