

TMS Maritime is a leading UK specialist in marine civil engineering, ancillary floating plant and diving services

Client: **Network Rail**

Project: **Bruern Level Crossing, Oxfordshire**

Requirement:

Extensive flooding in recent years had eroded the foundations of the level crossing and the river bank, supporting the main line rail track running only 8 metres from the water's edge. Scour protection and a new river bank of rock armour was needed, to prevent further track movement and level crossing subsidence.



Solution: ↓

Working with **Bam Nuttall**, the principle contractor, TMS Maritime undertook this work and provided the following solution. A silt screen was placed down stream of the bridge at 10cms above the river bed, to allow river wildlife to navigate the river unhindered. Weed and reed growth was cleared along this stretch of the river. Silt was dug out and the river bank excavated. An anchor trench was then created, prior to placing a double layer of 800mm rock armour, to create a new bank that would support the line, sufficient for all future rail operations. The bank was then covered with original river bank material to recreate the natural habitat for wildlife and a heavy duty Enkamat retaining mesh anchored into the trench, that will allow plant growth to quickly re-establish itself. Railway specification fencing was then installed alongside the track before all surrounding ground was reinstated.

