

**CLIENT NAME**

Network Rail

PROJECT NAMEBelvedere Track
Drainage Installation**SECTOR**

Railway Drainage

PROJECT VALUE

£160,000

DURATION

48 hours

LOCATION

Belvedere, Kent

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BELVEDERE – TRACK DRAINAGE INSTALLATION

Network Rail

THE IMPLEMENTATION

A railway drainage systems manufacturer, Aqua, was commissioned to design and supply the GRP headwall.

The track drainage system was installed during a 52-hour possession between 7-10 April 2017. Work was carried out in 12-hour shifts, with 50 track drainage personnel working on each shift.

4x road-rail vehicles (RRVs: 2x PC118, 2x PC138), 2x 5-tonne excavators and 2x trailer units were used to carry materials and equipment to and from the worksite.

At one point, work had to be suspended for three hours, and all equipment and materials were demobilised and transported to a depot three miles away, to allow two tamper trains to travel through the station.

THE RESULTS

Early indications are that the wet beds that were previously identified have been removed.

A new method for creating a track drainage outfall, using a GRP headwall, has been implemented. This technique can now be used again elsewhere, generating the benefits described above.

The track drainage was installed according to the programme and on budget. The GRP headwall was installed successfully and performed in line with specification. No incidents or accidents were reported.