



## Braybrooke

### Midland Mainline

**Principal Contractor:** QTS Group

**Client:** Network Rail

**Duration:** 2 Weeks October 2023

### The Project

QTS were called into accelerate works at Braybrooke on the Midland mainline in October 2023.

Following train driver reports of the track moving, QTS were called to monitor the track bed for movement and stability, with the line under speed restriction. Following adverse weather conditions, water was pulling at the toe of the embankment, causing it to slide. With reports showing the track dropping 210mm, the QTS team mobilised quickly, setting up a compound and removed vegetation to allow the team access to the slope.

Initially, soil nail drilling was utilised in shifts, before the line was closed and the team moved to 24 hour working for seven days from the 2nd November until 5:30am on the 9th November.







### Challenges Overcome

This line is a critical artery route, so it was crucial to ensure the that works were carried out safely and efficiently, causing the least amount of disruption to the travelling public.

### Execution and Success

Our expert rope access technicians were deployed, working alongside our specialised drill which was attached onto a 40 tonne offtrack long reach excavator, which had a reach of 22m.

These works, which utilised between 12-15 operatives per shift, saw soil nails with depths of 6 and 9m drilled into the embankment, with 17,000 litres of grout pumped through the bars helping to stabilise the ground.

Works were carried out on third party land, with the landowner giving access for the QTS compound, which was created using 800 tonne of stone. This was left over for the landowner and the team also replaced the gate to access his land, free of charge.

All work was carried out with no accidents or incidents and QTS was proud to receive an award for Team Work in November 2023 from Network Rail's Works Delivery Civils department. This award recognises the safe and successful delivery by the QTS team during this critical project.



*What a great collective effort over the last few days to get us into a very positive position to get the line back open asap. Every person on site played their part and worked together. All site staff have been solid, they've worked hard and been always fully on board, the wearing of PPE and safe methodologies for carrying out the work can't be faulted. Massive well done to everyone.* "

– Nick Lockerbie – Works Delivery Civils, Site Manager



*I wanted to offer my personal thanks for your brilliant efforts in making urgent repairs to the Midland Mainline at Braybrook last week and in managing the impact of these works. This was clearly a complex job on what is a busy and key route across the region. I am very grateful for your hard work and determination to act fast and safely. I understand that feedback from our industry partners has been very positive. Thank you for going the extra mile.* "

– Andrew Haines – Chief Executive, Network Rail