

TUNNEL WATERPROOFING TECHNIQUES PROJECT DEVELOPMENTS TO MID 1991 – PHASE 3

The report describes the continuation and development of the Tunnel Waterproofing Project up to mid 1991. It contains details of further trials as recommended in the previous report with conclusions about the technical viability of waterproofing old brick lined railway tunnels.

The work discussed in this report is confined to the grouting of voids between the lining and rock face in an attempt to cut off the water route rather than within the brickwork or on the intrados face. The theoretical studies leading to the execution of this work are explained. History, analysis of specific tunnel waterproofing problems, traditional repairs and alternative methods are not covered but reference is made in the previous report.