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## **SUMMARIES OF TRL PUBLICATIONS**

**October 2011**

## Reports Published – October 2011

### **PUBLISHED PROJECT REPORTS**

- PPR554      Rock slope risk assessment by P McMillan and I M Nettleton  
(Price £45, code 4X)
- PPR555      Rock engineering good guides to practice: rock slope remedial and  
maintenance work by P McMillan, A J Harber and I M Nettleton  
(Price £45, code 4X)
- PPR556      Rock engineering guides to good practice: road rock slope excavation  
by A J Harber, I M Nettleton, G D Matheson, P McMillan and A J  
Butler  
(Price £45, code 4X)
- PPR573      Investigating the likely technical effects in the UK if EU regulations  
were amended to permit articulated vehicles to be 19.4 m long or  
with a GVW of 44 tonnes on 5 axles by I Knight, W Newton, W  
McMahon, T Barlow and A Odhams  
(Price £45, code 4X)

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**Summary**

**October 2011**

**Published Project Report PPR554**

Rock slope risk assessment

P McMillan and I M Nettleton

Pages: 146, ISBN: 978-1-84608-972-5

The management of rock slopes requires knowledge of their location, traffic levels and other geometric parameters as well as the level of the hazard posed to the road user. This information can then be used to prioritise remedial action. This report details a system that was developed to allow such assessment and prioritisation on the Scottish road network.

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## **Summary**

**October 2011**

### **Published Project Report PPR555**

Rock engineering guides to good practice: rock slope remedial and maintenance works

P McMillan, A J Harber and I M Nettleton

Pages: 113, ISBN: 978-1-84608-973-2

This report provides advice and guidance on good practice in rock slope remedial and maintenance works. The subjects covered include rock slope stability, risk assessment, risk management and reduction strategies, the selection of risk reduction strategies, the design and specification of remedial works and environmental considerations.

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**Summary**

**October 2011**

**Published Project Report PPR556**

Rock engineering guides to good practice: road rock slope excavation

A J Harber, I M Nettleton, G D Matheson, P McMillan and A J Butler

Pages: 124, ISBN: 978-1-84608-974-9

This report provides advice and guidance on good practice in road rock slope excavation. The subjects covered include rock slope stability, site investigation, rock slope design, rock slope excavation and environmental considerations.

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**Summary****October 2011****Published Project Report PPR573**

Investigating the likely technical effects in the UK if EU regulations were amended to permit articulated vehicles to be 19.4 m long or with a GVW of 44 tonnes on 5 axles

I Knight, W Newton, W McMahon, T Barlow, A Odhams

Pages: 162, ISBN: 978-1-84608-976-3

In recent years the UK Department for Transport (DfT) has been considering their policy towards the permitted masses and dimensions of heavy goods vehicles (HGVs). The masses and dimensions that can be permitted for goods vehicles within national traffic are partially constrained by European Directive 96/53/EC and previous studies of the likely effects of changes have been based on the presumption that the UK would work within the existing EU legislation. However, the European Commission has also been reviewing its policy on the control of goods vehicle weights and dimensions and has commissioned several studies. The most recent study is still ongoing but has reported (Knight et al, 2010a) that the study will analyse the potential effects of permitting heavier 44 tonne articulated vehicles on 5 axles and longer articulated vehicles of up to 19.4m length as well as three different variants of the European Modular System (EMS). The main objective of the study reported here was to investigate the likely technical implications in the UK, if the EU Directive was amended to permit the first two changes listed above in terms of vehicle specifications, performance, safety, infrastructure and emissions.

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