

## **Extract from the Basingstoke Canal Embankment Survey December 2009**

### Aims

The aim of this project is to identify potential hazards associated with embankment instability and to mitigate or control the risks. This appraisal involves identification, inspection and assessment of embankments, asset register compilation, risk assessment, identification of any remedial works necessary and ongoing monitoring and inspection regimes.

The aims of the embankment register and asset management are as follows:

- Locate all embankments
- Produce a register recording all relevant slope information/data and condition criteria values
- Identify precursors for failure (such as movement indicated by tension cracking, bending trees etc.)
- Identify the degree of risk at each embankment
- Ensure the serviceability of all embankments
- Recommend the necessary measures to improve the condition and/or prevent a breach
- Use risk management structure to improve and/or maintain the condition of the embankments thereby reducing the risk or maintaining a low risk
- Prioritise repairs/condition improvements
- Manage the earthworks in the most cost effective way (i.e. balance the cost of repair/investigation with the risk)
- Implement a manageable inspection regime

### Conclusions

This report includes details of the condition of all the embankments identified along the Basingstoke Canal embankments and suggestions for remediation and on-going maintenance and inspection. The risk scores concluded from the recent data collection represent the risk at the time of data collection. It is therefore important that this report is not used as stand-alone advice but to form the basis of a management programme for the canal. It is essential that the inspection cycles are routinely followed so that pro-active remedial action can be taken, not only to ensure the safety of the canal users and nearby infrastructure but to be cost effective so that routine inspections, maintenance and repairs mitigate the necessity for emergency works.

December 2009