PROTOCOL FOR SELECTION OF UNSEALED ROAD MATERIAL FOR REGIONAL LOCAL GOVERNMENT

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Abstract

A model has been developed as part of a Research and Development Project for LGA (SA) to introduce a balance of science and practical approaches to allow Council’s to experiment with methods to improve the properties of materials selected for the resheeting of unsealed roads.

In order to control new innovative ideas in resheeting activities, a best practice approach to material selection involves:

- Staff training
- Material testing and reporting
- Analysis of testing results
- Options for material improvement through blending of materials (e.g. clay)
- Whole of life analysis of options to test the benefits of a solution based on expected performance
- Options for liquid/powder binder additives
- Site trials and monitoring

Subject to the right level of testing and analysis, options can be filtered out and others developed into trials to experiment on cost effective treatments. These trials can be setup in a controlled environment on sections of road and monitored to record key deterioration factors in order to compare performance.

A framework and tool set has been developed from the R&D project to trial different material selections in order to adopt best practice to ensure informed decision making occurs to improve asset management outcomes.

Key Words: Best Practice protocol for improving properties of material for unsealed roads