



## Product Testing Erosion Control

The application and sale of erosion control products can be greatly aided by availability of quantitative data on a product's performance. In many cases it is an essential requirement for the product's use and approval.

Landloch offers clients an extensive array of testing procedures to provide scientifically sound and objective data for leading practice assessment of a wide range of erosion and sediment control products.

Testing options include:

- Simulated rain;
- Simulated overland flows;
- Small and large flume studies; and
- Sediment characterisation.

These testing procedures encompass a broad scope of parameters to be measured, including:

- RUSLE C-factors;
- Infiltration rates and hydraulic conductivities;
- Changes in aggregate and sediment sizes and densities;
- Maximum permissible velocity determination;
- Critical flow shear values for initiation of particle detachment; and
- Surface roughness parameters.

Studies performed by Landloch have analysed:

- Effectiveness of different hydromulch types and rates;
- Use of turf on construction sites to reduce sediment transport;
- Polyacrylamides for soil surface stabilisation;
- Flocculant effectiveness specific to the soils being disturbed; and
- Other surface stabilisation compounds.

Information from a recent Landloch study has enabled significant changes in erosion control practice and achieved major cost savings for a Coal Seam Gas company that commissioned work investigating different stabilisation products. Subsequently, an increase in product sales has been realised by several suppliers. Landloch's testing methods enhance product marketing and use and they can be tailored to meet specific product capabilities.

Landloch's laboratories offer well equipped facilities in Australia and are operated by our highly trained and experienced team. They are able to perform testing efficiently and accurately, with studies being overseen and data interpreted by leading Australian erosion specialists.