

## APPENDIX 5 - CRITERIA USED FOR ESTABLISHING RECHARGE VALUES

### Characteristics of Very High Recharge Areas

permeability of profile > 1000 mm/day

### Characteristics of High Recharge Areas

soil depth: < 25 cm  
and/or outcropping bed-rock: > 10%  
and/or permeability of profile: > 200 mm/day  
and/or clay content of clayiest layer: < 25%  
and/or soil type: Uniform sands, loamy sands, uniform loams, sandy silt loams, loams (Uc, Um, Gc)  
and/or Duplex soils: side slopes: Red and whole coloured A<sub>2</sub> present but not bleached high Fe<sub>2</sub>O<sub>3</sub> and/or CaCO<sub>3</sub> content throughout B horizon

### Characteristics of Moderate Recharge Areas

soil depth: 25 – 100 cm  
outcropping bed-rock: = 0  
profile permeability: < 50 mm/day  
clay content of clayiest layer: > 35%  
Soil type: Gradational  
Duplex acid, whole coloured  
Duplex, A<sub>2</sub> may be present and sporadically bleached

### Characteristics of Low-Nil Recharge Areas

soil depth: > 100 cm  
outcropping bed-rock: = 0  
profile permeability: < 50 mm/day  
clay content of clayiest layer: > 35%  
soil type: Uniform clays (Uf)  
Uniform cracking clays (Ug)  
Duplex soils with conspicuously bleached A<sub>2</sub>, mottled B horizons and/or gleying characteristics