

APPENDIX E. 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: red and whole coloured
A₂ present but not bleached
high Fe₂O₃ and/or Ca CO₃ content throughout B horizon
side slopes: > 25%

Characteristics of Moderate Recharge Areas

soil depth: 25 - 100 cm
outcropping bed-rock: 1 - 10%
profile permeability: 50 - 200 mm/day
clay content of clayiest layer: > 25-35%
Soil type: Gradational
Duplex acid, whole coloured
Duplex, A₂ 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 A₂, mottled B horizons and/or gleying characteristics.