6.19 Mt. Disappointment Land System

This land system immediately west of the Kinglake land system, is also part of the Kinglake plateau. It has an area of 26.4 $\rm km^2$, which is 1.0% of the survey area.

Mt. Disappointment land system has similar topography, native vegetation and soil to the Kinglake Land System though the soil is a brown rather than a yellow gradational.

Most of the native vegetation has been cleared.





Schematic Block Diagram



COMPONENT	1	2	3
Proportion %	90	3	7
CLIMATE Rainfall (av.) Temperature (av.) Seasonal growth limitations	Annual: 800-1100 mm (monthly range: October 100 mm – January 62 mm) Annual: 8 ^o C (monthly range: February 18 ^o C – July 6 ^o C) Temperature: less than 10 ^o C May – September Precipitation less than potential evapotranspiration December - March		
GEOLOGY			
Age, rock	Devonian granodiorite		Devonian metamorphic aureole
TOPOGRAPHY Landscape Elevation (range) m Local relief (av.) m Drainage pattern Drainage density km/km ²		Dissected plateau 490 – 760 60 Dendritic 1.6	
Land form	Crest and upper slope	Lower slope	Crest and upper slope
Slope (av.) %, slope shape	7; Convex crest, concave slope	3; Convex	12; Convex crest, concave slope
NATIVE VEGETATION Structure Dominant species	E. delegatensis, E. radiata, E. cypellocarpa, E. obliqua	Tall open forest E. delegatensis, E. obliqua, E. cypellocarpa, Acacia melanoxylon	E. delegatensis, E. radiata, E. cypellocarpa, E. obliqua
SOIL Parent Material	In situ weathered rock		
Description	Red gradational soils, fine structure	Brown gradational soils, fine structure	Red gradational soils, fine structure
Factual Key	Gn 3.11	Gn 3	Gn 3.11
Surface Texture	Sandy loam	Clay loam	Clay loam
Permeability	High	Moderate – High	High
Depth (av.) m	1.5	2.0	1.5
LAND USE	Forestry, water supply, recreation		
SOIL DETERIORATION HAZARD Critical land features	Slope gradient	Slope gradient	Slope gradient
Processes	Overland flow, leaching	Overland flow, leaching	Overland flow, leaching
Forms	Sheet erosion, nutrient decline	Sheet erosion, nutrient decline	Sheet erosion, nutrient decline