

A. GENERAL DESCRIPTION

This map unit mainly occurs either as the side slopes off the basalt cones and crests, or as slopes going down to the major water courses. When the basalt meets the sedimentary material, there can be some salting although the incidence is very low for this component. The soils are commonly dark gradational with silty clay loam top soils with a gradual transition to a silty clay subsoil. Minor variants are structured, uniform silty clay loams or silty clays. Less commonly dark or yellow duplex soils can occur.

SITE CHARACTERISTICS

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Parent Material Age:	Quaternary	Depth to Seas. Watertable:	>2.0 m	
Parent Material Lithology:	Basalt	Flooding Risk:	Nil	
Landform Pattern:	Rolling hills/lava plain	Drainage:	Well drained	
Landform Element:	Hillslope/drainage depression	Rock Outcrop:	0-2%	
Slope a) common:	18%	Depth to Hard Rock:	>1.1 m	
Slope b) range:	11-20%	Present Land Use:	Grazing	
Potential Recharge to G Major Native Vegetation Gum. Grev Box. Kangaro	Species: River Re	e ed Gum, Hedge Wattle, Silver Wa	ttle, Yellow Gum, Swamp	

LAND DEGRADATION

Land Degradation	Water Erosion		Wind Erosion	Mass Movement	Salting	Acidification
Degradation	sheet/rill	gully	LIUSIOII	Movement		
Susceptibility	Moderate	Low	Very low	Moderate	Low	Moderate
Incidence	Low	Low	Low	Nil	Low	Not available

B. SOIL PROFILE

PROF A11	FILE DESCRIPTION 0-45 mm	Dark brown (7.5YR3/2) silty clay loam, strong subangular blocky structure, peds 2-5 mm, rough fabric, moderately weak consistence, pH 6.0. Clear transition to:
A12	45-270 mm	Dark brown (7.5YR3/2) silty clay loam, strong subangular blocky structure, peds 2-5 mm, rough fabric, moderately weak consistence, a few fine basalt gravel fragments, pH 6.0. Gradual transition to:
B21	270-680 mm	Dark brown (7.5YR3/2) silty clay, a few fine faint orange mottles, strong subangular blocky structure, peds 5-10 mm, rough fabric, moderately strong consistence, pH 6.0. Gradual transition to:
B22	680-1100 mm	Dark brown (7.5YR3/2) silty clay, a few fine faint orange mottles, strong subangular blocky structure, peds 5-10 mm, rough fabric, moderately strong consistence, pH 6.5. Gradual transition to:
ВС	1100 mm+	Partially weathered basalt rock.

CLASSIFICATION

Factual Key: Gn4.42 (major) Uf6.11, Um6.11 (minor)

Australian Soil Classification: Haplic, Eutrophic, Black Dermosols; medium, non-gravely, clay loamy/clayey,

Unified Soil Group: ML

INTERPRETATION OF LABORATORY ANALYSIS*

Horizon	pH (CaCl₂)	% Gravel	E.C. (salts)	Nutrient Status	Р	K	Al	Organic matter	Dispersibility
A11	4.8	0	VL	VL	S	S	S	Н	L
A12	4.5	2.1	VL	М	D	S	S	Н	L
B21	5.3	1.0	VL	М	S	D	S	L	L
B22	5.5	<1	VL	М	S	D	S	L	M

VL: Very Low

L: Low M: Moderate

H: High VH: Very High D: Deficient

S: Satisfactory

T: Potentially Toxic

NA: Not Available

* see appendix D for analytical results

** Strongly Acidic

SOIL PROFILE CHARACTERISTICS:

Permeability: Rapid (average 930 mm/day, range 120-1600 mm/day)

Available Water Capacity: High (160 mm H₂O) Linear Shrinkage (B horizon): Moderate (14%)

C. LAND CAPABILITY ASSESSMENT

Land Use	Class	Major Limiting Feature(s)/Land Use
Agriculture	C2T3S3	Slope, susceptibility to sheet and rill erosion
Effluent Disposal (septic tanks)	3	Slope
Farm Dams	4	Slope, suitability of subsoil, depth to hardrock
Building Foundations		
slab stumps/footings	4 3	Slope Slope, susceptibility to slope failure, linear shrinkage