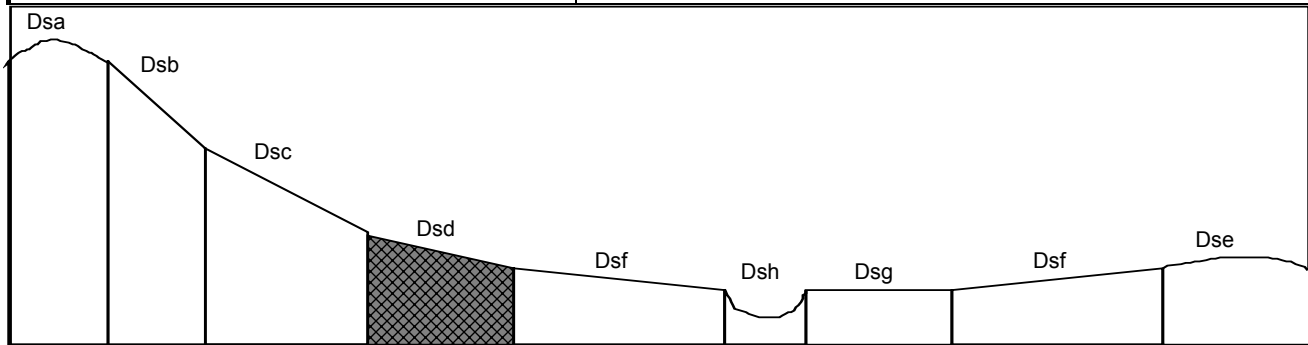


MAP UNIT SYMBOL : Dsd	MAP UNIT : Devonian sediments, moderate slope.
Area : 5,236 ha	



A. GENERAL DESCRIPTION :

These moderate slopes mainly occur within the sedimentary rolling hills and undulating low hills. The associated soils are predominantly moderately deep yellow duplex with loam top soils, a gravelly bleached horizon and mottled medium to heavy clay subsoils. In some instances the profiles are gradational in nature with smaller texture differences between horizons. Top soils are hardsetting when dry. This unit is highly susceptible to sheet and rill erosion.

SITE CHARACTERISTICS :

Parent Material Age:	Devonian	Depth to Seas. Watertable:	>5.0m
Parent Material Lithology:	Sediments	Flooding Risk:	Nil
Landform Pattern:	Rolling hills/ undulating low hills	Drainage:	Well drained
Landform Element:	Slope	Rock Outcrop:	0%
Slope a) common:	15%	Depth to Hard Rock:	0.5-1.2m
Slope b) range:	11-20%	Present Land Use:	Native forest/grazing
Potential Recharge to Groundwater:	Low		
Major Vegetation Species:	Red Stringybark, Grey Box, Kangaroo Grass		

LAND DEGRADATION :

Land Degradation	Water Erosion		Wind Erosion	Mass Movement	Salting	Acidification
	sheet / rill	gully				
Susceptibility	High	Moderate	Moderate	Moderate	Low	Moderate
Incidence	Moderate	Low - Mod	Low	Low	Low	Not available

B. SOIL PROFILE

PROFILE DESCRIPTION

A1	0-65mm	Hardsetting dark greyish brown (10YR4/2) loam fine sandy, weak subangular blocky structure, peds 2-5mm, rough fabric, moderately weak consistence, high organic matter, pH 4.5. Abrupt transition to:
A21	65-170mm	Yellowish brown (10YR5/4) silt loam fine sandy, bleached (10YR7/4) when dry, apedal, earthy fabric, moderately strong consistence, many medium sized sedimentary gravel fragments, pH 4.0. Clear transition to:
A22	170-370mm	Light yellowish brown (10YR6/4) silt loam fine sandy, bleached when dry (10YR8/4), weak subangular blocky structure, peds 10-20mm, rough fabric, moderately strong consistence, many medium sized sedimentary gravel fragments, pH 4.0. Gradual transition to:
B2	370-650mm	Brownish yellow (10YR6/6) medium-heavy clay, abundant medium sized distinct red and orange mottles, strong subangular blocky structure, peds 10-20mm, smooth fabric, very firm consistence, a few sedimentary gravel fragments, pH 4.5. Clear transition to:

B3	650-850mm	Light yellowish brown (10YR6/4) light-medium clay, many medium sized prominent red and pale mottles, moderate angular blocky structure, peds 5-10mm, smooth fabric, moderately firm consistence, abundant medium sized sedimentary gravel fragments, pH 4.9
C	850mm	Rock (sedimentary)

CLASSIFICATION

Factual Key (Northcote):	Dy3.41 (major), Gn3.04 (minor)
Australian Soil Classification:	Bleached-Sodic, Magnesian, Yellow Chromosol; medium, slightly gravelly, loamy/clayey, deep.
Unified Soil Group:	CH

INTERPRETATION OF LABORATORY ANALYSIS

Horizon	pH (CaCl ₂)	%Gravel	E.C. (salts)	Nutrient Status	P	K	Al	Organic matter	Dispersibility
A1	4.5**	5.4	VL	M	D	S	S	H	L
A21	4.0**	28.2	VL	VL	D	S	T	M	L
A22	4.0**	34.0	VL	VL	D	S	T	L	M
B2	4.5**	2.7	VL	L	D	S	T	VL	L
B3	4.9	16.3	VL	L	D	S	S	VL	L

VL : Very low L : Low M : Moderate H : High VH : Very High D : Deficient S : Satisfactory
T : Toxic * see appendix D for analytical results ** : Strongly acidic N.A. : Not Available

SOIL PROFILE CHARACTERISTICS:

Permeability:	Slow (average 25mm/day, range 10-33 mm/day)
Available Water Capacity:	Moderate (137 mm H ₂ O)
Linear Shrinkage (B horizon):	Low (10%)

C. LAND CAPABILITY ASSESSMENT

Land Use	Class	Major Limiting Feature(s)/Land Use
Agriculture	C ₃ T ₄ S ₄	Moderate slope, shallow depth to hard rock, highly susceptible to sheet erosion
Effluent Disposal (septic tanks)	4	Shallow depth to hard rock, low permeability
Farm Dams	5	Very low suitability of subsoil, very shallow depth to hard rock
Secondary Roads	4	Moderately steep slope
Rural Residential	5	Farm dams
Small Farms	4	Agriculture, effluent disposal, farm dams, secondary roads, building foundations