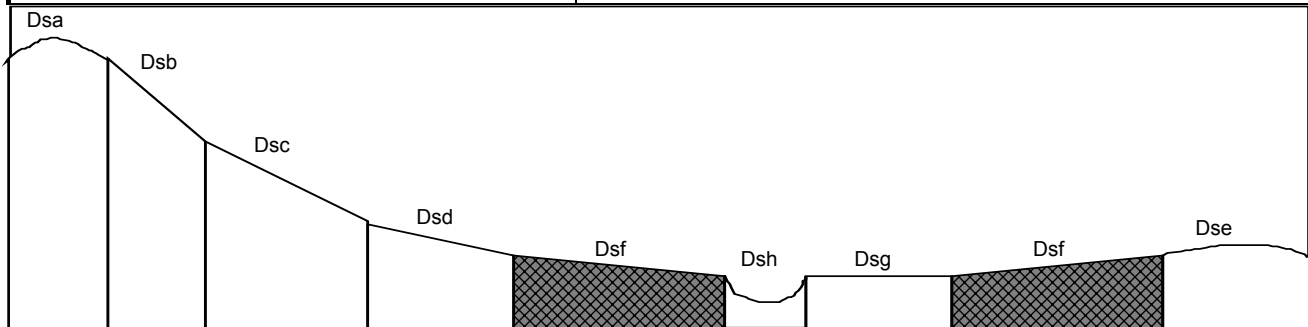


MAP UNIT SYMBOL : Dsf	MAP UNIT : Devonian sediments, gentle slope.
Area : 6,524 ha	



A. GENERAL DESCRIPTION :

Gentle slopes usually found in the undulating sedimentary hills and low hills between crest and drainage line. The soils in this unit are predominantly yellow duplex, like those on the moderate slopes. Hardsetting loam top soils overlie bleached gravelly loams and then heavily mottled clays. The profiles are moderately deep. The profiles are moderately deep. These very gentle slopes are moderately susceptible to salting, gully and wind erosion. In many instances these forms of degradation are due to inappropriate land use and/or management practices.

SITE CHARACTERISTICS :

Parent Material Age:	Devonian	Depth to Seas. Watertable:	>5.0m
Parent Material Lithology:	Sediments	Flooding Risk:	Nil
Landform Pattern:	Undulating/ low hills	Drainage:	Moderately well drained
Landform Element:	Hillslope	Rock Outcrop:	0%
Slope a) common:	9%	Depth to Hard Rock:	0.6-1.2m
Slope b) range:	3-10%	Present Land Use:	Native forest/ grazing
Potential Recharge to Groundwater:	Low		
Major Vegetation Species:	Red Stringybark, Grey Box		

LAND DEGRADATION :

Land Degradation	Water Erosion		Wind Erosion	Mass Movement	Salting	Acidification
	sheet / rill	gully				
Susceptibility	Moderate	Moderate	Moderate	Low	Low	Moderate
Incidence	Low - Mod	Moderate	Low	Low	Low	Low

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	370-950mm	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	950-1150mm	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	1150mm	Rock (sedimentary)

CLASSIFICATION

Factual Key (Northcote):	Dy3.41 (major),
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**	3.4	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 ₃ S ₃	Climate, gentle slope, moderate depth to hard rock, moderate available water capacity, moderately dispersible top soil, moderate gravel/stone/ boulder content, moderate susceptibility to sheet, gully and wind erosion
Effluent Disposal (septic tanks)	4	Low permeability
Farm Dams	4	Low suitability of subsoil, shallow depth to hard rock,
Secondary Roads	3	Moderate slope, moderate drainage, Unified Soil Group
Rural Residential	4	Effluent disposal, farm dams
Small Farms	3	Agriculture, effluent disposal, farm dams, secondary roads, buiding foundations