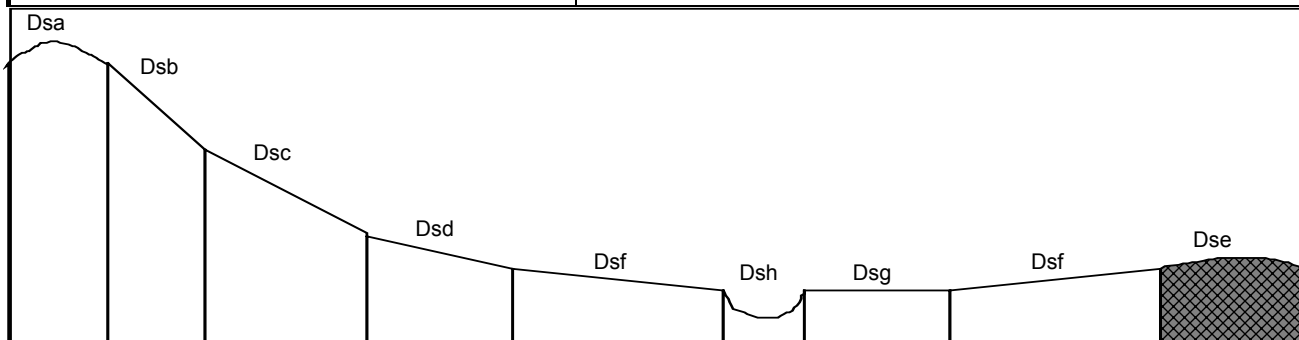


<b>MAP UNIT SYMBOL : Dse</b>	<b>MAP UNIT : Devonian sediments, gentle crest.</b>
<b>Area : 768 ha</b>	



### A. GENERAL DESCRIPTION :

Gentle crests generally found in the undulating and low sedimentary hills. The soils associated with these crests are variable in depth and gravelly throughout. These soils are gradational in nature with hardsetting loam top soils overlying bleached clay loams and light grey light to light-medium clays. Nutrient status is low throughout the profile and bedrock may outcrop occasionally. Yellow duplex soils that occur on the gentle and moderate slopes may also occur in this unit.

#### SITE CHARACTERISTICS :

<b>Parent Material Age:</b>	Devonian	<b>Depth to Seas. Watertable:</b>	>10.0m
<b>Parent Material Lithology:</b>	Sediments	<b>Flooding Risk:</b>	Nil
<b>Landform Pattern:</b>	Undulating/ low hills	<b>Drainage:</b>	Well drained
<b>Landform Element:</b>	Crest	<b>Rock Outcrop:</b>	0-5%
<b>Slope a) common:</b>	0%	<b>Depth to Hard Rock:</b>	0.5-1.0m
<b>Slope b) range:</b>	0-3%	<b>Present Land Use:</b>	Native forest/grazing
<b>Potential Recharge to Groundwater:</b>	Moderate/ high		
<b>Major Vegetation Species:</b>	Long-leaf Box, Broad-leaf Peppermint, Blackwood		

#### LAND DEGRADATION :

Land Degradation	Water Erosion		Wind Erosion	Mass Movement	Salting	Acidification
	sheet / rill	gully				
<b>Susceptibility</b>	Very low	Low	Very low	Very low	Very low	Low
<b>Incidence</b>	Very low	Very low	Very low	Very low	Very low	Not available

### B. SOIL PROFILE

#### PROFILE DESCRIPTION

<b>A1</b>	0-60mm	Hardsetting greyish brown (10YR4/2) loam fine sandy, apedal, earthy c, moderately firm consistence, common medium sized angular sedimentary gravel fragments, high organic matter, pH 3.9. Clear transition to:
<b>A21</b>	60-380mm	Yellowish brown (10YR5/6) fine sandy clay loam with silt, bleached (10YR7/4) when dry, apedal, earthy, very firm consistence, many sedimentary gravel fragments and ironstone nodules, pH 4.0. Gradual transition to:
<b>A22</b>	380-640mm	Light yellowish brown (10YR6/4) silty clay, bleached (10YR8/2) when dry, a few faint red and orange mottles, apedal, earthy, very firm consistence, abundant medium sized sedimentary gravel fragments, pH 4.8. Gradual transition to:
<b>B</b>	640-1000mm	Light grey (10YR7/1) light medium clay, many coarse distinct orange mottles, apedal, earthy, moderately strong consistence, many medium sized sedimentary gravel fragments, pH 4.1.
<b>C</b>	1000mm	Rock (sedimentary)

## CLASSIFICATION

<b>Factual Key (Northcote):</b>	Gn2.94 (major), Dy3.41, Gn4.64, Gn4.51 (minor)
<b>Australian Soil Classification:</b>	Bleached-Mottled, Magnesian, Grey Kandosol; thin, moderately gravelly, loamy/clayey, moderate.
<b>Unified Soil Group:</b>	CL

## INTERPRETATION OF LABORATORY ANALYSIS

Horizon	pH (CaCl <sub>2</sub> )	%Gravel	E.C. (salts)	Nutrient Status	P	K	Al	Organic matter	Dispersibility
<b>A1</b>	3.9**	29.9	VL	VL	D	S	T	H	L
<b>A21</b>	4.0**	31.5	VL	VL	D	S	T	L	M
<b>A22</b>	4.8	38.0	VL	VL	D	D	T	VL	M
<b>B</b>	4.1**	15.3	VL	L	D	S	T	VL	H

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:

<b>Permeability:</b>	Rapid (average 785mm/day, range 82-1538 mm/day)
<b>Available Water Capacity:</b>	Moderate (116 mmH <sub>2</sub> O)
<b>Linear Shrinkage (B horizon):</b>	Very low (6%)

## C. LAND CAPABILITY ASSESSMENT

Land Use	Class	Major Limiting Feature(s)/Land Use
<b>Agriculture</b>	C <sub>3</sub> T <sub>1</sub> S <sub>4</sub>	Poor top soil condition, shallow depth to hard rock, high gravel/stone /boulder content
<b>Effluent Disposal (septic tanks)</b>	4	Shallow depth to hard rock
<b>Farm Dams</b>	5	Very low suitability of subsoil, very shallow depth to hard rock
<b>Secondary Roads</b>	3	Unified Soil Group
<b>Rural Residential</b>	5	Farm dams
<b>Small Farms</b>	4	Agriculture, effluent disposal, farm dams