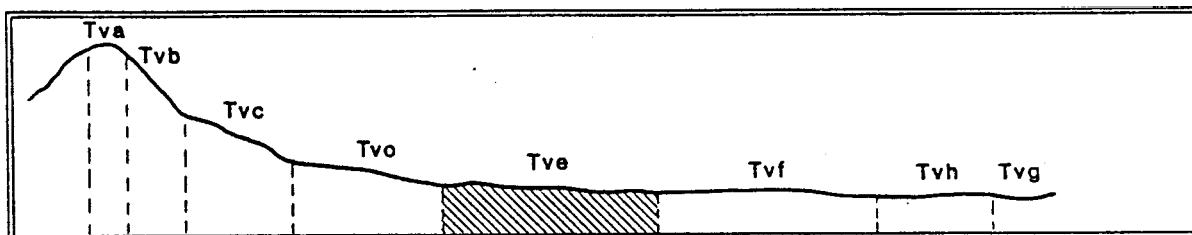


Map Unit:	TERTIARY VOLCANIC GENTLE SLOPE	Map Unit Symbol: Tve
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General Description:

This map unit is located in the central area of the Shire, and forms part of an extensive, gently undulating plain. The incidence of land degradation is minimal, however the productivity of the native pastures is restricted by the low nutrient status and acidity of the soils and the cold temperatures during the winter months.

Site characteristics: Site No. 11

Parent material	Tertiary Volcanic	Depth seasonal watertable:	> 2 m
Age:		Potential recharge to groundwater:	High
Lithology:		Flooding risk:	Nil
Landform Pattern:	Gently undulating plain with isolated cones	Drainage:	Well drained
Element:	Gentle slope	Depth to hardrock:	0.8 m
Slope common:	7%	Proportion of Shire:	7.7%
range:	3 – 10%		
Rock outcrop:	0%		

Native vegetation: Manna Gum, Snow Gum, Swamp Gum
Present land use: Grazing (native pastures)

Land degradation:	Water erosion		Wind	Salting	Acidification
	Sheet/rill	Gully			
Susceptibility	High	Low	Very low	Low	Moderate
Incidence	Moderate	Nil	Nil	Nil	Low

Soil profile characteristics:

Permeability (measured - average, range): (estimated):	1800, 700 - 3300 mm/day -
Available water capacity:	130 mm H ₂ O
Linear Shrinkage (B horizon):	2.0%

Soil profile description:

A₁	0-18 cm	Dark brown (10YR 4/3) clay loam, moderate subangular blocky, 6 mm, smooth fabric, moderately weak consistence, pH 5.3. Clear transition to
A₂	18-45 cm	Yellowish brown (10YR 5/4) silty clay loam, bleached (10YR 7/3 dry) apedal massive, earthy fabric, moderately weak consistence, pH 5.3. Abrupt transition to
B₂₁	45-79 cm	Yellowish brown (10YR 5/6) light clay, common distinct medium orange mottles, weak subangular blocky structure, 15 mm, smooth fabric, <2% parent material fragments, pH 5.6. Abrupt transition to
C	79 + cm	Parent material, rock

Soil classification:

Factual Key (Northcote): Gn 3.84
 Australian Soil Classification: Bleached - mottled, Dystrophic, Brown, Dermosol, moderate, thick, clay loamy, non-gravelly
 Unified Soil Group: ML

Interpretation of soil analyses*

Horizon	pH	Gravel	E.C.	Nutrient status	P	K	Al	Org. matter	Dispersibility
A ₁	5.3**	<1	VL	M	D	S	T	H	L
A ₂	5.3**	8	VL	VL	D	S	T	M	M
B ₂₁	5.6**	10	VL	VL	D	S	T	L	M
C									

VL : Very Low L : Low M : Moderate H: High VH : Very High
 D: Deficient S: Satisfactory T: Toxic ** Acid NA : Not available

Land capability assessment

Land use	Class	Major limiting feature (s)
Agriculture (CTS values)	C ₃ T ₃ S ₄	Shallow depth to hardrock, high susceptibility to sheet/rill erosion
Effluent disposal (septic tanks)	3	Limited depth to hardrock
Farm dams (earthen)	5	Shallow depth of clay layer and depth to hardrock, excessive permeability
Building foundations * slab	2	Nil
* stumps/footings	2	Nil