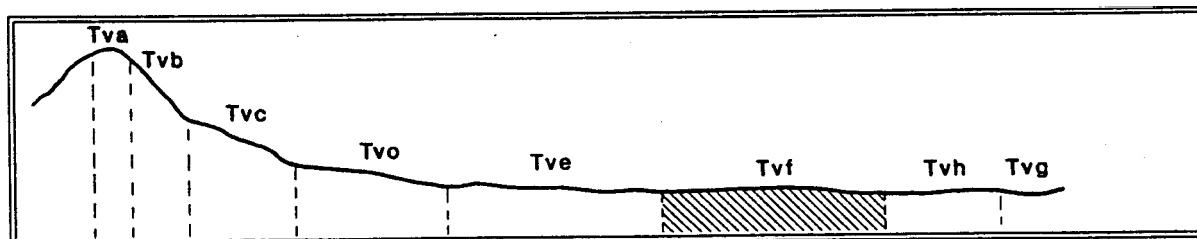


Map Unit:	TERTIARY VOLCANIC, VERY GENTLY SLOPE	Map Unit Symbol: Tvf
------------------	--------------------------------------	-----------------------------



General Description:

This map unit has very gentle slopes and dark duplex soils adjacent to the main drainage depressions, within the volcanic plain resulting from the extrusions of The Jim Jim, Hanging Rock and Camels Hump. The incidence of any land degradation is minimal however the slow permeability and only moderate depth of the soil profile does present some limitations to land use.

Site characteristics: Site No. 23

Parent material Age: Lithology:	Tertiary Volcanic	Depth seasonal water table:	> 2 m
Landform Pattern: Element:	Gently undulating plain with isolated cones Very gentle slope	Potential recharge to groundwater:	Low
Slope common: range:	3% 1 – 3%	Flooding risk:	Nil
Rock outcrop:	0%	Drainage:	Well drained
		Depth to hardrock:	1.0 – 1.5 m
		Proportion of Shire:	3.7%

Native vegetation: Manna Gum, Swamp Gum, Blackwood, Silver Wattle
Present land use: Grazing (native and introduced species)

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

Soil profile characteristics:

Permeability (measured - average, range): (estimated):	- Slow
Available water capacity:	140 mm H ₂ O
Linear Shrinkage (B horizon):	4.7%

Soil profile description:

A₁	0-19 cm	Dark brown (10YR 3/3) loam, strong subangular blocky structure 3 mm, smooth fabric, moderately weak consistence, few organic segregations and basalt fragments, pH 5.7. Clear transition to
A₂	19-28 cm	Dark yellowish brown (10YR 4/4) clay loam, weak subangular blocky structure 6 mm, rough fabric, weak consistence, few ferruginous gravels, pH 5.7. Clear transition to
B₂	28-52 cm	Dark yellowish brown (10YR 4/6) light clay, moderate subangular blocky structure, 4 mm, smooth fabric, firm consistence, few manganiferous segregations and basalt cobbles, pH 5.7. Gradual transition to
B₃	52-94+ cm	Yellowish brown (10YR 5/4) light medium clay, fine faint orange mottles, moderate angular blocky structure 5 mm smooth fabric, very firm consistence, common manganiferous segregations, many coarse basaltic and ferruginous gravels, pH 6.0.

Soil classification:

Factual Key (Northcote): Gn 3.21
 Australian Soil Classification: Mottled, Dystrophic, Brown, Dermosol, deep, medium loamy, non-gravelly
 Unified Soil Group: NA

Interpretation of soil analyses*

Horizon	pH	Gravel	E.C.	Nutrient status	P	K	Al	Org. matter	Dispersibility
A ₁	5.7	2	VL	L	S	S	S	H	L
A ₂	5.7	2	VL	L	S	S	S	H	L
B ₂	5.7	2	VL	L	S	S	S	M	L
B ₃	6.0	20	VL	L	D	S	S	L	L

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)	C3T2S4	Shallow depth to hard rock High susceptibility to sheet/rill erosion
Effluent disposal (septic tanks)	4	Slow permeability
Farm dams (earthen)	4	Shallow depth to hard rock and depth of clay layer
Building foundations * slab * stumps/footings	2 2	Nil Nil