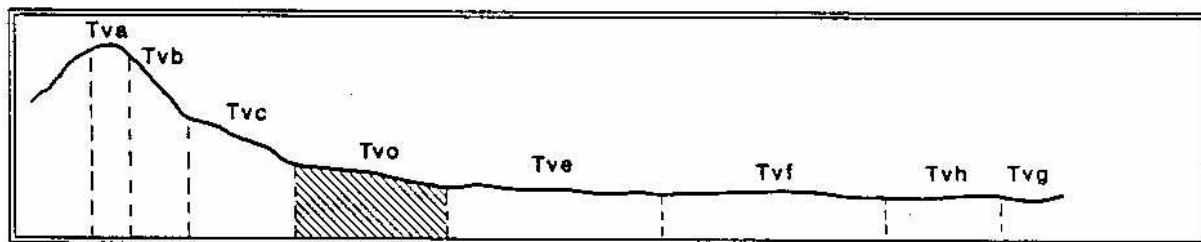


<b>Map Unit:</b>	TERTIARY VOLCANIC, OUTWASH SLOPE	<b>Map Unit Symbol:</b> Tvo
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**General Description:**

These outwash slopes from the volcanic extension points such as the Jim Jim and Hanging Rock comprise <1% of the Shire. The soils have an unusually deep fine sandy loam topsoil which is particularly susceptible to erosion, should the usually dense grass cover be removed. The very low nutrient status of the topsoil severely limits the introduction of improved pasture species.

**Site characteristics: Site No. 24**

<b>Parent material Age: Lithology:</b>	Tertiary Volcanic	<b>Depth seasonal watertable:</b>	> 2 m
<b>Landform Pattern:</b>	Gently undulating plain with isolated cones	<b>Potential recharge to groundwater:</b>	High
<b>Element:</b>	Outwash slope		
<b>Slope common range:</b>	6% 3 – 10%	<b>Flooding risk:</b>	Nil
<b>Rock outcrop:</b>	0%	<b>Drainage:</b>	> 2.0 m
		<b>Depth to hardrock:</b>	1.0%
		<b>Proportion of Shire:</b>	

**Native vegetation:** Swamp Gum, Manna Gum  
**Present land use:** Grazing (native & introduced pastures)

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

**Soil profile characteristics:**

Permeability (measured - average, range): (estimated):	1100, 450 - 2200 mm/d
Available water capacity:	300 mm H <sub>2</sub> O
Linear Shrinkage (B horizon):	14%

**Soil profile description:**

<b>A<sub>11</sub></b>	0-18 cm	Dark brown (10YR 3/3) fine sandy loam, root-hair mottling, weak granular structure, 3 mm, rough fabric, loose consistence, pH 5.5. Clear transition to
<b>A<sub>12</sub></b>	18-34 cm	Yellowish brown (10YR 5/6), fine sandy loam, root-hair mottling, moderate granular structure 4 mm, rough fabric, <2% ferruginous gravel, pH 5.3. Abrupt transition to
<b>A<sub>2</sub></b>	34-65 cm	Light yellowish brown (10YR 6/4) fine sandy loam, bleached (10 YR 7/2 dry) medium distinct yellow-brown mottles, moderate granular structure 4 mm earthy fabric, moderately cemented massive broken fragipan, <2%, ferruginous gravel pH 5.9. Abrupt transition to
<b>B<sub>2</sub></b>	65-200+ cm	Dark greyish brown (10YR 4/2) light medium clay, many coarse prominent orange mottles, moderate subangular blocky structure, 40 mm, smooth fabric pH 5.0.

**Soil classification:**

Factual Key (Northcote): Dy 3.41  
 Australian Soil Classification: Bleached mottled Magnesic, Grey Chromosol, very deep, thick, loamy, non-gravelly  
 Unified Soil Group: NA

**Interpretation of soil analyses\***

Horizon	pH	Gravel	E.C.	Nutrient status	P	K	AI	Org. matter	Dispersibility
A <sub>11</sub>	5.5**	<1	VL	VL	D	D	T	M	L
A <sub>12</sub>	5.3**	<1	VL	VL	D	D	T	L	L
A <sub>2</sub>	5.9	< 1	VL	VL	D	D	S	VL	L
B <sub>2</sub>	5.6	< 1	VL	M	D	S	T	VL	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)	C <sub>3</sub> T <sub>3</sub> S <sub>4</sub>	High susceptibility to gully erosion
Effluent disposal (septic tanks)	2	Nil
Farm dams (earthen)	4	Rapid permeability
Building foundations * slab * stumps/footings	3 3	Moderate slopes, moderate risk of slope failure Moderate linear shrinkage, moderate risk of slope failure