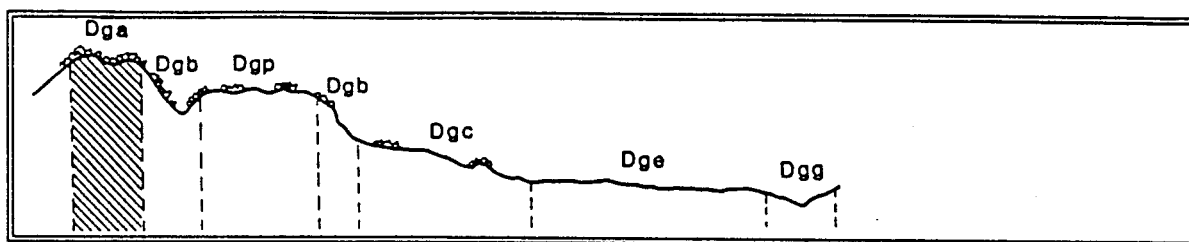


<b>Map Unit:</b>	DEVONIAN GRANITIC CREST/RIDGE	<b>Map Unit Symbol:</b>	Dga
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**General Description:**

This map unit represents the high elevation crests and ridges on granite/granodiorite in the NE corner of Shire. Outcropping large granitic boulders provide a unique landscape whereas the coarse sandy soils, high permeabilities and low quantities of available water for plant growth restrict land use to conservation and recreation. Uniform sandy soils are predominant however gradational or even duplex profiles do occur on the saddles and deeply weathered areas of bed-rock.

**Site characteristics: Site No. 1099**

<b>Parent material Age: Lithology:</b>	Devonian Granite/Granodiorite	<b>Depth seasonal watertable:</b>	> 5 m
<b>Landform Pattern: Element:</b>	Rolling hills Crest	<b>Potential recharge to groundwater:</b>	High
<b>Slope common: range:</b>	7% 4-10%	<b>Flooding risk:</b>	Nil
<b>Rock outcrop:</b>	40-50%	<b>Drainage:</b>	Well drained
		<b>Depth to hardrock:</b>	1.0 m
		<b>Proportion of Shire:</b>	1.0%

**Native vegetation:** Messmate, Manna Gum, Bracken Fern  
**Present land use:** State Forest, selective logging

<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	Low	Very low	Moderate	Very low	Moderate
Incidence	Low	Nil	Nil	Nil	Low

**Soil profile characteristics:**

Permeability (measured - average, range): (estimated):	- Rapid
Available water capacity:	160 mm H <sub>2</sub> O
Linear Shrinkage (B horizon):	Very low (estimate)

**Soil profile description:**

**A<sub>1</sub>**    0-17 cm            Dark brown (10YR 3/3) loamy coarse sand, apedal massive, moderately weak consistence, abundant quartz gravel, common granitic cobbles pH 6.2. Clear transition to

**A<sub>2</sub>**    17-55 cm            Yellowish brown (10YR 5/4) coarse sand, bleached (10YR7/3 dry) apedal massive, very firm consistence, few fine quartz gravel, few granitic cobbles, pH 6.1. Diffuse transition to

**B**        55-100 cm            Dark yellowish brown (10YR 4/4) loamy sand, common distinct pale orange mottles, apedal massive, moderately strong consistence pH 6.1. Abrupt transition to

**C**        100+ cm            Rock

**Soil classification:**

Factual Key (Northcote):            Uc 1.41  
 Australian Soil Classification:      Paralithic, Leptic, Rudosol, moderate, thick, sandy, gravelly  
 Unified Soil Group:                    NA

**Interpretation of soil analyses\***

Horizon	pH	Gravel	E.C.	Nutrient status	P	K	Al	Org. matter	Dispersibility
A <sub>1</sub>	6.2	16	VL	VL	D	S	S	L	L
A <sub>2</sub>	6.1	13	VL	VL	D	S	S	L	L
B	6.1	11	VL	VL	S	S	S	S	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>5</sub>	Very high proportion of rock outcrop; very poor topsoil condition
Effluent disposal (septic tanks)	3	Moderate slope
Farm dams (earthen)	5	Very shallow depth of clay layer excessive permeability
Building foundations * slab	4	High stone and boulder content
* stumps/footings	4	High stone and boulder content