

# 768341

## LAKE PICONE

This small land system is restricted to the slopes and flats around Mount Mueller and Mount Anne where sedimentary rocks of Carboniferous to Permian age (Parameener Supergroup) occur. It includes areas glaciated during Pleistocene times. The glaciations produced the rock basin which now forms Lake Picone.

Shallow brown fibrous peats are typical of surface horizons and usually overlie clay loam or light clay. Soil profiles at higher locations tend to be shallower than those of the lower slopes. This could be due to the colder, more exposed conditions impeding soil development. Open to tall open mixed forest forms at lower altitudes and is dominated by *Eucalyptus regnans*, *E. obliqua* and probably *E. delegatensis*. The understorey usually has species typical of wet

forests *Athrotaxis selaginoides* and *Richea pandanifolia* occur in localised areas. In poorly drained alpine locations low open shrubland and bolster plants surround islands of shrubland and heath dominated by *Orites milliganii*, *Eucalyptus vernicosa* and *Nothofagus cunninghamii* with *Diselma archeri*, *Eucryphia milliganii*, *Orites diversifolia* and *Microstrobos niphophilus* (in addition to species on the land system diagram). More protected positions often have a similar species composition to the shrubland and heath referred to, but grow a little taller to form low closed forest.

Around Mount Mueller the area is designated state forest while at Mount Anne it occurs in the South West National Park where usage includes bush walking and climbing. At higher altitudes the soils on these sediments appear to be inherently unstable with landslips relatively common. There is also a rill, gully and sheet erosion hazard on lower slopes if clearing occurs.

Photo 38

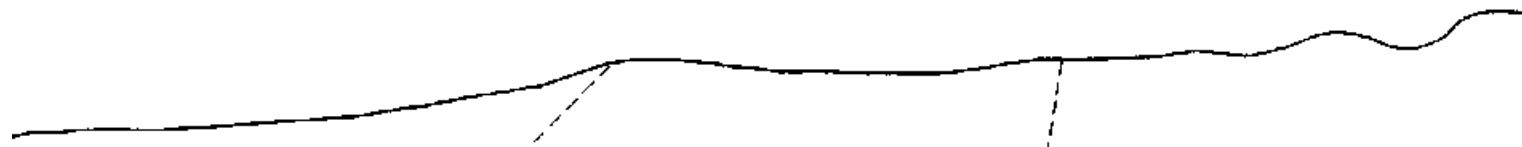


The poorly drained exposed sub-alpine component is in the foreground and protected sub-alpine component with taller vegetation immediately behind (middle section of photograph) Dolerite cliffs in the background are part of the Mount Anne Land System

LAND SYSTEM  
LAKE PICONE

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Area (ha) : 2445



ALTITUDINAL RANGE (m)	600-900 (up to 1000)		APPROXIMATE ANNUAL RAINFALL(mm)	1500-2000
SITE NO. /ALTITUDE (m)/ASPECT	167/620/N		193/910/W	192/920/S
TOPOGRAPHY	Small areas of flats and slopes			
Position	Lower slopes	Poorly drained, exposed sub-alpine locations		Protected sub-alpine locations
Typical Slope( )	5-20	0-5		5
Proportion(%)	40	30		30
GEOLOGY	Sediments of Carboniferous (?) to Permian age - sandstone, siltstone, mudstone with some conglomerate. Glacial in places.			
NATIVE VEGETATION	Open forest to	Sedgeland/shrubland		Low closed forest
Structure	tall open forest	to heath		
Floristic Association (See Appendix 1 for common names)	Eucalyptus regnans E. obliqua Nothofagus cunninghamii Atherosperma moschatum Phyllocladus aspleniifolius Anopterus glandulosus Cenarrhenes nitida Pimelea drupacea Dicksonia antarctica	Carpha curvata Restio complanatus Isophysis tasmanica Drosera arcturi Xyris sp. Sprengelia incarnata var. montana Dracophyllum milliganii Diselma archeri Abrotanella forsterioides Orites milliganii Nothofagus cunninghamii Eucalyptus vernicosa		Nothofagus cunninghamii Eucryphia milligann Richea scoparia Athrotaxis selaginoides A. cupressoides Microstrobos niphophilus Richea pandanifolia Orites diversifolia Richea milligann Trochocarpa gunnii Orites milligann
SOIL Surface(A or P horizon) Colour (moist) and texture	Dark reddish brown fibrous peat	Brown dark brown (7. 5 YR 4. 2) fibrous peat		Dark reddish brown (5 YR 2. 5/2) fibrous peat
Subsoil (or B horizon) colour (moist) and texture	Rocky very dark greyish brown (10 YR 3/2) silty clay loam over a brown (10 YR 5/3) silty clay	Dark grey (7. 5 YR 4/0) clay loam to light clay		Grey (7. 5 YR 5/0) light clay with a yellowish brown (10 YR 5/8) mottle
Primary Profile form	Gradational	Uniform		Uniform
Depth surface horizon(m)	0. 05	0. 10		0. 10
Typical total depth(m)	>0. 50	0. 35		0. 40
Permeability	Moderate	Low - moderate		Low - moderate
LAND USE	Areas of state forest with nature conservation and recreation in the Mount Anne area			
HAZARD		Moderate track erosion		
	Moderate rill, gully and sheet erosion if cleared			