

General Description:

This land unit occurs just south of Taggerty and represents the most distant section of the colluvial outwash slope from the Cathedral Range. The soils present severe problems during the wet months of the year with a perched water table at approximately 40 cm. The movement of vehicular traffic across paddocks is extremely difficult and the disposal of effluent from septic tanks, feedlots, industry etc. should not be permitted, as subsurface water movement drains into the adjacent Acheron River.

Site characteristics:

Site No. 103

Parent material		Depth to seasonal	> 2 m (perched seasonal		
Age:	Tertiary	watertable:	watertable at ≤ 40 cm		
Lithology:	Colluvium	Potential recharge			
Landform		to groundwater:	Low		
Pattern:	Undulating rises	Flooding risk:	Low		
Element:	Lower slopes	Drainage:	Poorly drained		
Slope		Depth to hardrock:	>> 2 m		
Common:	2%	Rock outcrop:	0%		
Range:	1 - 3%	Annual rainfall:	940 mm		
Native vegetation: Swamp Gum, Candlebark Gum, Blackwood, Burgan, Bracken					
Present land use:	esent land use: Cleared; native and improved pastures for sheep and cattle production				

Land degradation:

Degradation	Water erosion		Wind arosion	Salting	Acidification
process	Sheet/rill	Gully	wind crosion	Satting	Aciumcation
Susceptibility	Moderate	Moderate	Low	Low	High
Incidence	Low	Low	Nil	Nil	Moderate

Soil profile characteristics:

Permeability	(measured - average, range): (estimated):	300 (200 - 430) mm/day -		
Available water capacity:		325 mm H ₂ O		
Linear Shrinkage (B horizon):		14% (est.)		

Soil profile description:

Land Unit symbol: Tff

- A1 0-11 cm Dark brown (10YR3/3) fine sandy loam, weak subangular blocky structure, peds 25 mm, rough fabric, moderately weak consistence slightly moist, moderate organic matter, pH 5.0. Clear transition to:
- A2e 11 43 cm Light yellowish brown (10YR6/4) silty loam, conspicuously bleached (7.5YR8/2 dry), weak subangular blocky structure, peds 15 mm, rough fabric, very weak consistence slightly moist, very few ironstone gravel fagments, pH 5.3. Diffuse transition to:
- B1 43 66 cm Brownish yellow (10YR6/6) silty loam, fine faint orange/grey mottles are common, moderate subangular blocky structure, peds 7 mm, smooth fabric, very weak consistence moist, very few ironstone gravel fragments, pH 5.4. Gradual transition to:
- B2 66 110 cm Brownish yellow (10YR6/6) light clay, many very coarse distinct grey mottles, strong angular blocky structure, peds 15 mm, smooth fabric, moderately weak consistence moist, few ironstone/sandstone gravel fragments, pH 5.3. Clear transition to:
- C 110^+ cm Brownish yellow (10YR6/6) fine sandy clay loam, few gravel fragments, pH 5.9.

Soil classification:

Gn 3.84 - 2/1/043
Bleached - Acidic, Mesotrophic, Yellow, Dermosol;
medium, non-gravelly, loamy/clayey, deep
CL

Interpretation of soil analyses: (see Appendix 2 for analytical results)

Horizon	рН	Gravel %	E.C. (salts)	Nutrient status	Р	К	Al	Organic matter	Dispersibility
A1	5.0 **	< 1	VL	VL	S	D	Т	М	Н
A2e	5.3 **	< 1	VL	VL	D	D	Т	VL	Н
B1	5.4 **	< 1	VL	VL	D	D	Т	VL	L
B2	5.3 **	2	VL	L	D	D	Т	VL	L
С	5.9	1	VL	L	D	D	Т	VL	L
VL: Very Lo	ow L	: Low · Satisfactor	M: v T·	Moderate	H	: High A · Not Av	ailable	VH: Very H ** Acidic	igh

Land capability ratings and limitations for specific land uses:

Land use	Rating	Major limiting factor(s)	
Agriculture	$C_3T_2S_5$	Depth to seasonal water table < 0.5 metres, dispersible topsoil	
Building foundations			
- slab	5	Poor - very poor drainage, as perched water table occurs seasonally,	
- stumps/tootings	5	above the clay subsoil (< 0.5 metre depth)	
Effluent disposal (septic tanks)	5	Poor - very poor drainage, a perched water table develops at < 0.5 metres during the wetter months	
Farm dams	4	Low suitability of subsoil	
Residential - rural	5	Very low capability for building foundations, effluent disposal and secondary roads, low capability for farm dams	
- urban	5	Very low capability for building foundations and secondary roads	
Scenic value	3	Low Scenic Quality but close proximity to a major highway	
Secondary roads	5	Poor - very poor drainage, a perched water table develops at < 0.5 metre during the wetter months	