

Site code<sup>1</sup>    OTR607



Deep vegetation coverage near Redwater Creek

**Location**    Redwater Creek  
**Landform**    Hills  
**Geology**    Quaternary Alluvium  
**Element**    Terrace-alluvial flat  
**Slope**        0%  
**Aspect**       -



Humose-acidic, Magnesian, Black Kandosol

Horizon	Depth (cm)	Description
02	10-0	Very dark greyish brown (10YR3/2); clay loam; weak subangular blocky structure; clear boundary to:
A1	0-50	Very dark greyish brown (10YR3/2); clay loam; weak subangular blocky structure; clear boundary to:
A2	50-80	Very dark greyish brown (10YR3/2); silty clay loam; weak subangular blocky structure boundary to:
	80+	Watertable.

<sup>1</sup> Source: Pitt AJ (1981) A study of the land in the catchments of the Otway Range and adjacent plains. TC-14. Soil Conservation Authority. Kew, Victoria

## Analytical data<sup>2</sup>

Site OTR607 Horizon	Sample depth cm	pH		EC	NaCl	Ex Ca	Ex Mg	Ex K	Ex Na	Ex Al	Ex Acidity	FC -10kPa	PWP -1500kPa	KS	FS	Z	C
		H <sub>2</sub> O	CaCl <sub>2</sub>	dS/m	%	cmol <sub>c</sub> /kg	cmol <sub>c</sub> /kg	cmol <sub>c</sub> /kg	cmol <sub>c</sub> /kg	cmol <sub>c</sub> /kg	mg/kg	cmol <sub>c</sub> /kg	%	%	%	%	%
O2	10-0	4.4	N/R	0.290	0.026	0.2	1.3	0.7	1.3	N/R	N/R	N/R	N/R	0.2	6	23	38
A1	0-10	4.5	N/R	0.270	0.023	0.06	1.2	0.7	1.1	N/R	N/R	N/R	N/R	0.4	27	27	22
A1	10-20	4.6	N/R	0.240	0.023	0.08	1.1	0.7	1.0	N/R	N/R	N/R	N/R	<1	12	35	26
A2	50-70	5.0	N/R	0.076	0.010	0.04	1.0	0.6	0.8	N/R	N/R	N/R	N/R	<1	17	39	27

## Management considerations

Medium textured soils (loams) offer high agricultural versatility with very few physical limitations, but remains dependent on any chemical or depth restrictions. Friable surface soils (and subsoils) occur through the build up of dense organic matter (O2 horizon). Their acidic nature (pH < 5.0) restricts the uptake of certain nutrients as well as intolerance for some plant species (due in part to the increasing mobilisation of aluminium and manganese). Deficiencies of calcium, potassium and molybdenum are likely.

<sup>2</sup> Source: Government of Victoria State Chemistry Laboratory.