Site code[1]	**MM436**
Location	**Mount Kinross, Willowvale Road, Lismore District**
Landform	Undulating low hills
Geology	Intrusive: Devonian granites, Wallinduc Formation
Element	Mid slope

Profile morphology

Horizon	Depth (cm)	Description
A1	0-30	Dark brown (10YR3/3); coarse sandy loam; hardsetting surface condition; weak consistence (dry); clear boundary to:
A2	30-50	Pale brown (10YR6/3), light grey (10YR7/2 dry); sandy clay loam; sharp boundary to:
B21	50-65	Yellowish brown (10YR5/4) with light yellowish brown (10YR5/8) mottles; heavy clay; strong coarse blocky structure; few segregations; boundary to:
B22	65+	Yellowish brown (10YR5/4) with light yellowish brown (10YR5/8) mottles; heavy clay; strong coarse blocky structure; few segregations; boundary to:

ASC: ?; Mottled-Hypernatric; Brown Sodosol

Analytical data[2]

Site MM236	Sample depth	pH		EC	NaCl	Ex Ca	Ex Mg	Ex K	Ex Na	Ex Al	Ex acidity
Horizon	cm	H_2O	$CaCl_2$	dS/m	%	$cmol_c/kg$	$cmol_c/kg$	$cmol_c/kg$	$cmol_c/kg$	mg/kg	$cmol_c/kg$
A1	0-30	4.9	N/R	0.11	N/R	N/R	N/R	N/R	N/R	N/R	7.6
A2	30-50	0	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	2.3
B21	50-65	7	N/R	0.19	0.02	N/R	N/R	N/R	N/R	N/R	2.6
B22	65+	7.6	N/R	0.14	N/R	N/R	N/R	N/R	N/R	N/R	3.9

Site MM236	Sample depth	FC (-10kPa)	PWP (-1500kPa)	KS	FS	Z	C	Org C	Bulk density
Horizon	cm	%	%	%	%	%	%	%	$t\ m^{-3}$
A1	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R
A2	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R
B21	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R
B22	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R

Management considerations

Strong texture contrast between the surface soil and the subsoil is a very important soil feature and can impact upon the permeability aspects of the profile. The surface soil is hardsetting and acidic, while the subsoil is heavy clay. Increasing the organic matter of the soil will help to reduce the hardsetting nature, while the application of lime to the topsoil should raise the pH.

[1] Source: Maher JM, Martin JJ (1987) Soils and landforms of south-western Victoria. Department of Agriculture and Rural Affairs. Research Report No. 40.

[2] Source: Government of Victoria, State Chemistry Laboratory.