

<b>Site code<sup>1</sup></b>	<b>MM5078</b>
<b>Location</b>	<b>Devon Road, Waurn Ponds</b>
<b>Landform</b>	Hills
<b>Geology</b>	Cretaceous fluvial sediments: Eumeralla Formation; <i>volcanolithic sandstone, siltstone, mudstone and coal</i>
<b>Element</b>	Crest

### Profile morphology

Horizon	Depth (cm)	Description
A1	0–20	Very dark greyish brown (10YR3/2); clay loam; massive structure; weak consistence (dry); clear boundary to:
A2	20–30	Brown (10YR5/3), conspicuously bleached, very pale brown (10YR7/3 dry); clay loam; very many fine segregations; sharp boundary to:
B21	30+	Dark brown (10YR3/3) with yellowish brown (10YR5/6) mottles; medium clay; strong fine blocky structure; smooth ped fabric; very firm consistence (moderately moist); common coarse segregations.

**ASC:** Ferric; Mottled-Mesonatric; Brown Sodosol

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

Site MM5015 Horizon	Sample depth cm	pH		EC	NaCl	Ex Ca	Ex Mg	Ex K	Ex Na	Ex Al	Ex acidity
		H <sub>2</sub> O	CaCl <sub>2</sub>	dS/m	%	cmolc/kg	cmolc/kg	cmolc/kg	cmolc/kg	mg/kg	cmolc/kg
A1	0–20	5.8	N/R	0.15	N/R	N/R	N/R	N/R	N/R	N/R	N/R
A2	20–30	6.6	N/R	0.07	N/R	N/R	N/R	N/R	N/R	N/R	N/R
B21	30+	6.4	N/R	0.29	0.06	N/R	N/R	N/R	N/R	N/R	N/R

Site MM5015 Horizon	Sample depth cm	FC (-10kPa) %	PWP (-1500kPa) %	KS %	FS %	Zi %	C %	Org C %	Bulk density t m <sup>-3</sup>
A1	0–20	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R
A2	20–30	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R
B21	30+	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R

### Management considerations

Mottles in the subsoil indicate reduced permeability and periods of waterlogging. The massive topsoil also may create a barrier to soil penetration. The application of gypsum and introduction of organic matter may assist the development of topsoil structure while better site drainage will reduce periods of waterlogging.

<sup>1</sup> Source: Maher JM, Martin JJ 1987 Soils and landforms of south-western Victoria. Department of Agriculture and Rural Affairs. Research Report No. 40.

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