

**Site Code** <sup>1</sup> **SFS21**



View north west across paleo swamp (source material for lunette)

**Location** East of Lake Weering (Barpinba-Poorneet Road)  
**Landform** Lunette  
**Geology** Quaternary aeolian deposits: sand, clay, calcareous sand  
**Element** Crest  
**Slope** 3%  
**Aspect** West



Melanic, Calcic, Black VERTOSOL (or DERMOSOL)

Horizon	Depth (cm)	Description
A11	0-10	Black (10YR2/1); heavy clay loam to light clay; fine crumb structure (self-mulching); clear boundary to:
A12	10-30	Black (10YR2/1); light clay; rough peds, fine to medium 5-20 mm polyhedral structure, strong consistence; clear boundary to:
B21	30-60	Very dark grey (7.5YR3/1 moist) to dark brown (10YR3/3 dry); light medium clay; moderate coarse polyhedral to strong fine polyhedral peds; clear boundary to:
B22k	60-130+	Light brownish grey (2.5Y6/2); light medium clay; apedal but very common fine pores and some larger root channels infilled with A and B horizon material; very calcareous.

### Management considerations:

The lunette soils in the Victorian Volcanic Plain may have sandy or clay profiles, with clay profiles, as in this case (SFS21), being generally more common. Occurrence is very localised and of limited spatial extent. The soils are well structured and have high fertility. Site drainage is usually good but because the clay content is high and the clays swell, internal drainage is often poor and the soil surface becomes sticky and difficult to manage when wet.

<sup>1</sup> Source: MacEwan R, Imhof M (in press) Soils at Raised Bed Cropping Sites in South West Victoria. DPI

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

Site SFS21	Sample depth cm	pH		EC dS/m	NaCl %	Ex Ca cmole/kg	Ex Mg cmole/kg	Ex K cmole/kg	Ex Na cmole/kg	Ex Al mg/kg	Ex Acidity cmole/kg	FC -10kPa %	PWP -1500kPa %	KS %	FS %	Z %	C %
		H <sub>2</sub> O	CaCl <sub>2</sub>														
A11	0-10	6.3	5.9	0.30	0.04	11.0	5.5	2.3	0.3	N/R	N/R	36.3	20.9	12.3	18.5	15.5	45.0
A12	15-25	6.3	5.7	0.09	N/R	12.0	8.0	2.6	0.27	<10	8.7	33.2	20.6	15.8	17.1	12.5	47.5
B21	40-50	7.3	6.8	0.19	N/R	18.0	16.0	2.6	0.41	N/R	N/R	48.6	31.4	5.2	7.7	7.0	72.0
B22k	75-85	8.5	8.0	0.26	N/R	59.0	37.0	4.0	2.0	N/R	N/R	25.2	14.0	3.2	6.5	9.0	42.5

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