

Site Code ¹ SW88



Typical result of traffic on this soil type

Location Winchelsea, Barwon Park Road (1.5 km north-west of Winchelsea)
Landform Plain
Geology Quaternary volcanics: *basalt*
Element Low-lying flat depression
Slope 0
Aspect 0

Horizon	Depth (cm)	Description
A1	0-8	Dark brown (10YR3/3 moist and 10YR4/2 dry); fine sandy loam, weakly pedal; firm consistence; pH 5.7; clear boundary to:
A2	8-15/18	Possible A2 (incipient) but not clear in trench; abrupt boundary to:
B21g	15/18-50	Very dark brown (10YR2/2 moist) with greyish brown (10YR5/2 moist) and brownish yellow (10YR6/8 moist) (50%) gleyed interiors; sandy light clay in upper part of horizon to light medium clay, (sandy) deeper down and in ped interiors; very coarse (>150 mm) prismatic structure; massive; firm to very firm consistence; pH 8.1; clear or gradual boundary to:
B22g	50-80	Dark grey (10YR4/1 moist) with many (>50%) grey (10YR5/1 moist) and yellow (10YR7/8) mottles; medium clay; fine pedal structure, polyhedral to very fine lenticular structure, shiny ped faces; pH 8.7; clear or gradual boundary to:
B23gt	80-110	Black (10YR2/1 moist) ped faces; many (~80%), pinkish grey (7.5YR6/2 moist) and brownish yellow (10YR6/8) mottles; medium clay; structure tending to medium (<50 mm) prismatic; pH 8.9; clear boundary to:
B24g	110-180 +	Greyish green (5G4/2 moist) and light olive brown (2.5Y5/3 moist), strongly gleyed; sandy clay; fine yellowish brown (10YR5/8 moist) mottles; apedal; strongly developed large (~10 mm) biopores, 50-120 mm apart; minor (<2%), soft calcium carbonate (CaCO ₃) and isolated calcium carbonate (CaCO ₃) nodules; pH 8.3



Vertic (& Calcareous), Sodosolic, Redoxic, HYDROSOL

Management considerations

Very waterlogged and moderately saline this soil should be avoided for agriculture or infrastructure.

¹ Source: MacEwan R, Imhof M (in press) Major Soils and Landscapes along the Southwest Gas Pipeline 1999. DPI

Analytical data²

Site SW88	Sample depth	pH		EC	NaCl	Ex Ca	Ex Mg	Ex K	Ex Na	Ex Al	Ex Acidity	FC	PWP	KS	FS	Z	C
		H ₂ O	CaCl ₂														
Horizon	cm			dS/m	%	cmol _c /kg	cmol _c /kg	cmol _c /kg	cmol _c /kg	mg/kg	cmol _c /kg	%	%	%	%	%	%
A1	0-10	5.7	5.0	0.28	0.03	4.4	3.9	0.9	0.2	<10	10	18.3	10.3	23.3	49.0	8.5	13.5
B21	30-50	8.1	7.4	0.76	0.16	3.1	10.0	0.8	2.7	N/R	N/R	29.9	14.4	16.6	45.0	5.5	31.0
B22	60-80	8.7	8.2	1.4	0.33	3.1	14.0	1.0	5.1	N/R	N/R	37.5	18.3	10.1	43.1	7.5	37.5
B23	90-105	8.9	9.3	1.2	0.3	23.0	11.0	0.5	4.0	N/R	N/R	31.2	14.2	25.8	37.7	4.0	30.5
B24	110-150	8.3	8.5	0.67	0.14	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R

² Source: Government of Victoria State Chemistry Laboratory.