

Site Code¹ SW56



Location Cooriemungle road / Gallum road, tributary of Ross Creek, Heytesbury district

Landform Valley floor

Geology Transported Neogene Hanson Plain Sand and Gellibrand Marl

Element Crest of convex natural mound; remnant of footslope or terrace.

Slope 1%

Aspect NE

Convex rise on valley floor showing B horizon variability in podosol

Horizon	Depth (cm)	Description
A1	0-20	Black (10YR2/1 moist, 10YR4/1 dry); sandy loam; weakly pedal, fine to medium polyhedral (5-20 mm) structure; weak consistence; pH 5.1; abrupt smooth boundary to:
A2e	20-30/40	Greyish brown (10YR5/2 moist), conspicuously bleached (10YR8/1 dry); fine sandy loam; apedal massive structure; firm consistence; pH 4.8; abrupt and wavy boundary to:
B21h	34/40-35/45	Black (10YR2/1 moist and 10YR3/1 dry); fine sandy clay loam; apedal massive structure; clear and wavy boundary to:
B22s	35/45-80	Olive yellow (2.5Y6/8 moist) with light red (2.5YR7/6 dry) mottles; fine sandy clay loam; apedal massive structure; strong consistence; pH 5.1; gradual and smooth boundary to:
B23g	80 +	Grey (2.5Y5/1) with (10-15%), yellowish brown (10YR5/8 moist) mottles common; medium clay; medium (20-50 mm) prismatic, parting to coarse (20-50 mm) and medium (10-20 mm) blocky structure; firm to very firm consistence; pH 4.9.

Management considerations

Better drained surface than the majority of valley floor soils in this landform and so less prone to pugging by grazing animals. Subsoil subject to waterlogging. Acidic profile responding to lime. Compare this profile to SW55 for a variation in this type of soil.



Melacic, Humic/Sesquic, Semiaquic PODOSOL (surface has been stripped from this profile)

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

Analytical data²

Site SW56	Sample depth cm	pH		EC	NaCl	Ex Ca	Ex Mg	Ex K	Ex Na	Ex Al	Ex	FC	PWP	KS	FS	Z	C
		H ₂ O	CaCl ₂	dS/m	%	cmolc/kg	cmolc/kg	cmolc/kg	cmolc/kg	mg/kg	Acidity cmolc/kg	-10kPa %	-1500kPa %	%	%	%	%
A1	0-20	5.1	4.6	0.37	0.02	7	0.9	0.7	0.2	<10	19	42.8	19.9	17.1	38.2	22.5	4
A2	20-30	4.8	4.1	0.06	N/R	0.82	0.11	<0.05	<0.05	<10	2	15.5	2	10.7	42.4	36	4.5
Bs	40-80	5.1	4.7	0.06	N/R	0.35	0.12	0.16	0.06	110	19	N/R	N/R	5.6	26.6	25.5	31.5
Bg	80+	4.9	4.1	0.06	N/R	0.08	2	0.14	0.2	280	12	N/R	N/R	8.4	21.1	27	43

² Source: Government of Victoria State Chemistry Laboratory.