

**Site Code<sup>1</sup>** SW57



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

**Landform** Valley floor

**Geology** Neogene Hanson Plain Sand and Gellibrand Marl: Alluvium

**Element** Plain on valley floor

**Slope** 0%

**Aspect** NE

View of excavation at soil sites SW55, SW56 (distant) and SW57, SW58 (foreground)

Horizon	Depth (cm)	Description
A1	0-20	Very dark brown (10YR2/2); clay loam; weak polyhedral (10-20 mm) structure; weak consistence; clear and smooth boundary to:
B21g	20-90/95	Light brownish grey (10YR6/2 moist and 10YR7/2 dry) with common (10-15%) faint, fine, brownish yellow (10YR6/8 moist) mottles; fine sandy clay loam; weak prismatic structure in upper horizons, becoming increasing pedal at depth (weak medium prismatic, parting to medium blocky structure); firm consistence; pH 5.7; clear boundary to:
B22g	90/95+	Grey (10YR5/1 moist) with many (20-30%) brownish yellow (10YR6/8) mottles; heavy clay; very coarse prismatic (larger at depth), parting to very coarse to coarse blocky structure; very firm consistence:

### Management considerations

Dairying is the principle land use in this district. The low lying nature of the land, high rainfall and clay subsoil render this very prone to waterlogging and pugging by dairy cattle. This and similar soils respond well to close spaced drains to alleviate waterlogging and form reasonably stable mole channels.

See also profile SW58 for variation in the soil profile at this site.



Humose, Dermosolic, Redoxic HYDROSOL (surface has been stripped from this profile)

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

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

Site SW57	Sample depth	pH		EC	NaCl	Ex Ca	Ex Mg	Ex K	Ex Na	Ex Al	Ex Acidity	FC	PWP	KS	FS	Z	C
		H <sub>2</sub> O	CaCl <sub>2</sub>														
Horizon	cm			dS/m	%	cmol <sub>c</sub> /kg	cmol <sub>c</sub> /kg	cmol <sub>c</sub> /kg	cmol <sub>c</sub> /kg	mg/kg	cmol <sub>c</sub> /kg	%	%	%	%	%	%
A1	0-20	5.9	5.4	0.22	N/R	12.0	2.8	0.4	0.46	<10.0	13.0	35.8	15.4	4.5	45.5	21.0	19.0
B21g	40-60	5.7	4.9	0.06	N/R	2.0	3.0	0.08	0.26	58.0	5.1	N/R	N/R	3.0	52.4	25.5	20.5
B22g	95+	5.8	4.8	0.1	N/R	3.4	3.8	0.23	0.54	22.0	5.4	25.1	13.4	13.3	39.0	23.0	25.5

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