

Site Code¹ SW64

Location Simpson; north of Tomahawk Creek Road
Landform Gently undulating plain
Geology Neogene Hanson Plain Sand Formation
Element Gentle slope
Slope 1%
Aspect South

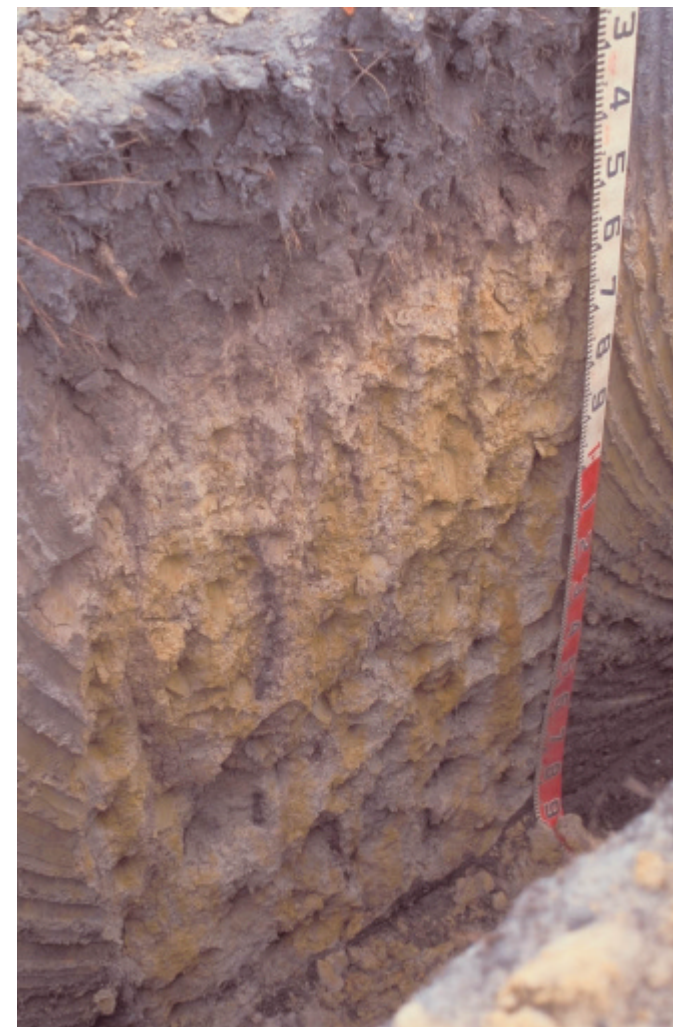


Close up of A1 horizon showing prolific roots attenuated by waterlogged (mottled) subsoil

Horizon	Depth (cm)	Description
A11	0–40/45	Black (2.5Y2.5/1), grey (2.5Y6/1 dry) to light yellowish brown (2.5Y6/4 dry); light fine sandy loam; weakly pedal, very weak consistence; moderate amount of roots present; pH 5.1; clear boundary to:
A12	45–55/60	Greyish brown (2.5Y5/2 moist and dry); loamy sand; apedal; firm consistence; diffuse boundary to:
B21g	55/60–120	Yellowish brown (10YR5/8) and light yellowish brown (2.5Y6/3) mottled; clayey sand; apedal; firm consistence; pH 4.8; gradual boundary to:
B22g	120 +	Light brownish grey (10YR6/2) with very coarse prominent yellowish brown (10YR5/6 and 5/8) mottles; clayey sand; apedal

Management considerations

Acidity of the profile and waterlogging are the major limitations. The high organic carbon content of the topsoil (7.7%) and overall topsoil depth are compensating factors.



Humose–Acidic, Kandosolic, Redoxic HYDROSOL

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

Analytical data²

Site SW64	Sample depth	pH		EC	NaCl	Ex Ca	Ex Mg	Ex K	Ex Na	Ex Al	Ex Acidity	FC	PWP	KS	FS	Z	C	
		Horizon	cm	H ₂ O	CaCl ₂	dS/m	%	cmole/kg	cmole/kg	cmole/kg	cmole/kg	mg/kg	cmole/kg	-10kPa	-1500kPa	%	%	%
	A1	0-40	5.1	4.5	0.26	N/R	2.3	0.5	0.5	0.3	17	16	N/R	N/R	37	38.4	10	4.5
	B21g	55-120	4.8	4.2	0.06	N/R	0.09	0.54	<0.05	0.18	150	5.7	N/R	N/R	27.7	41.6	11.5	20.5

² Source: Government of Victoria State Chemistry Laboratory.