HIGHLY LEACHED SAND

General Description: Grey sand over pale bleached sand on dark brown 'pipey' coherent sand grading to yellow sand.

Landform: Undulating dune range

Substrate: Sand

Vegetation: -



Type Site: Site No.: SE081 1:50,000 mapsheet: 6922-1 (Millicent)

Hundred:RiddochEasting:455670Section:115Northing:5843250

Sampling date: 29/09/2004 Annual rainfall: 765 mm average

Mid-slope of moderately inclined range, 10% slope. Loose surface with no stones.

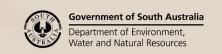
Soil Description:

Depth (cm)	Description	
50-0	Drift/ disturbed material	
0- 30	Grey soft single grain fine sand. Diffuse change to:	
30-50	Pale brown bleached single grain fine sand. Clear change to:	
50-70	Very dark greyish brown coherent single grain fine sand with pipey structure. Diffuse change to:	
70-130	Dark reddish brown single grain fine sand with coarse brown mottles. Diffuse change to:	
130-220	Yellowish brown single grain fine sand with	

coarse very dusky red patches. Continues.



Classification: Fragic, Pipey, Aeric Podosol; thick, non-gravelly, sandy/sandy, very deep





Summary of Properties

Drainage: Rapidly (excessively) drained. Soil never remains wet for more than a few hours.

Fertility: Inherent fertility is low, reflected in low sum of cations. Phosphorus, potassium,

sulphate and trace element concentrations are all very low.

pH: Strongly acidic. Low buffering capacity means that these soils can quickly become

strongly acidic.

Rooting depth: More than 220 cm in exposure.

Barriers to root growth:

Physical: Nil

Chemical: Nil

Waterholding capacity: Approximately 150 mm.

Seedling emergence: No problems, except where water repellent, but seedlings may be affected post

emergence by sand blasting.

Workability: Easily worked over a range of moisture conditions, but dry working predisposes

surface to wind erosion.

Erosion Potential:

Water: Low

Wind: High

Laboratory Data

Depth cm	pH H ₂ O	pH CaC1 ₂	CO ₃	EC 1:5 dS/m	ECe dS/m	Org.C %	P	Avail. K	Cl mg/kg	SO ₄ -S mg/kg		Trace Elements mg/kg (EDTA)				cations	Exchangeable Cations cmol(+)/kg				ESP
							mg/kg	mg/kg				Cu	Fe	Zn	Mn	cmol (+)/kg	Ca	Mg	Na	K	
0-30	5.6	4.5	0	0.01	0.06	0.6	4	26	4	2.3	0.1	<.05	224	0.4	1.1	0.9	0.69	0.12	0.04	0.07	na
30-50	6.2	4.9	0	0.01	0.04	0.2	6	30	1	1.8	< 0.1	<.05	54	0.2	0.5	0.5	0.38	0.07	0.02	<.01	na
50-70	5.2	3.9	0	0.01	0.11	0.4	5	26	2	2.0	0.1	0.2	64	3.4	0.4	0.8	0.58	0.14	0.04	0.06	na
70-130	5.8	4.7	0	0.01	0.07	0.5	3	27	3	1.8	< 0.1	0.1	23	0.2	0.2	0.3	0.20	0.04	0.03	<.01	na
130-220	5.9	4.9	0	0.01	0.06	0.3	3	19	1	2.2	<0.1	<.05	18	<.05	<0.1	0.2	0.16	0.02	0.02	0.04	na

Note: Sum of cations, in a neutral to alkaline soil, approximates the CEC (cation exchange capacity), a measure of the soil's capacity to store and release major nutrient elements.

ESP (exchangeable sodium percentage) is derived by dividing the exchangeable sodium value by the CEC. In this case, ESP is meaningless due to very low CEC.

Further information: <u>DEWNR Soil and Land Program</u>

