BLEACHED SILICEOUS SAND

General Description: Deep bleached sand, organically darkened at the surface

Landform: Gently undulating sandhill

country

Substrate: Windblown Lowan Sand.

Vegetation: Mallee



Type Site: Site No.: MM054 1:50,000 mapsheet: 7026-2 (Shaugh)

Hundred: Shaugh Easting: 479200 Section: 7 Northing: 6024700

Sampling date: 24/08/1992 Annual rainfall: 430 mm average

Crest of low to moderate sandhill. Loose surface, no stones.

Soil Description:

Depth (cm) Description

0-9 Dark greyish brown single grain loose sand.

Abrupt to:

9-19 Brown single grain loose sand. Sharp to:

19-45 Yellow and light grey speckled loose single

grained sand. Diffuse to:

45-210 Light grey and yellow speckled loose single

grained sand.



 $\textbf{Classification:} \quad \text{Basic, Arenic, Yellow-Orthic Tenosol; medium, non-gravelly, sandy / sandy, very deep} \\$





Summary of Properties

Drainage: Rapidly drained. Soil never remains saturated for more than a couple of hours.

Fertility: Inherent fertility is very low, as indicated by the exchangeable cation data, and low

clay and organic carbon levels. A range of nutrient deficiencies is likely and suggested by the available analyses. Phosphorus, zinc, copper and manganese all

appear to be deficient, and organic carbon levels are sub-optimal.

pH: Slightly acidic throughout.

Rooting depth: 80 cm in pit.

Barriers to root growth:

Physical: No physical barriers.

Chemical: No chemical barriers. Low root densities are a function of low nutrient status and

retention capacity.

Waterholding capacity: 50 mm in the rootzone.

Seedling emergence: Reduced by water repellence.

Workability: Soft / loose surface is easily worked.

Erosion Potential:

Water: Low.

Wind: Moderately high to high.

Laboratory Data

Depth cm	pH H ₂ O	pH CaC1 ₂	CO ₃	EC1:5 dS/m	ECe dS/m	%	Avail. P	K	mg/kg	ا د			g/kg	cmol	Exchangeable Cations cmol(+)/kg				ESP
							mg/kg	mg/kg		Cu	Fe	Mn	Zn	(+)/kg	Ca	Mg	Na	K	
Paddock	6.5	6.3	<1	0.03	0.23	0.4	13	47	0.88	0.051	ı	0.69	0.28	2.1	1.54	0.32	0.08	0.10	na
0-9	6.6	6.3	<1	0.03	0.31	0.4	17	68	< 0.40	< 0.05	-	0.54	0.29	1.7	1.13	0.32	0.04	0.14	na
9-19	6.4	5.7	<1	0.03	0.18	0.2	7	58	0.48	< 0.05	-	0.094	< 0.06	1.5	0.74	0.24	0.06	0.13	na
19-45	6.4	6.1	<1	0.05	0.14	<0.1	<2	50	< 0.40	< 0.05	-	< 0.06	<0.06	1.0	0.37	0.17	0.05	0.11	na
45-100	6.5	6.5	<1	0.02	0.09	< 0.1	<2	48	< 0.40	< 0.05	-	< 0.06	< 0.06	0.8	0.29	0.14	0.04	0.08	na
100-150	6.7	6.7	<1	0.01	0.11	<0.1	<2	<40	1.2	< 0.05	-	< 0.06	0.08	0.8	0.37	0.20	0.05	0.10	na
150-210	6.2	6.5	<1	0.01	0.1	<0.1	<2	<40	< 0.40	< 0.05	-	< 0.06	0.1	0.8	0.33	0.22	0.04	0.06	na

Note: Paddock sample bulked from cores (0-10 cm) taken around the pit.

CEC (cation exchange capacity) is 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.

Further information: DEWNR Soil and Land Program



