BLEACHED SILICEOUS SAND

General Description: Deep bleached sand with an organically darkened surface and a yellower subsoil

Landform:	Gently undulating dunefield	
Substrate:	Windblown Molineaux Sand.	
Vegetation:	Mallee / Banksia scrub	

Type Site:	Site No.:	MM061		
	1:50,000 sheet: Annual rainfall: Landform: Surface:	7026-4 (Bainton) 390 mm Crest of high sandhill Loose with no stones	Hundred: Sampling date:	Day 26/08/92

Soil Description:

Depth (cm)	Description	
0-15	Dark greyish brown loose single grained strongly water repellent sand. Diffuse to:	
15-50	Brownish yellow and very pale brown (bleached) speckled loose single grain sand. Diffuse to:	
50-220	Yellow and reddish yellow speckled loose single grain sand.	



Classification: Basic, Arenic, Bleached-Orthic Tenosol; medium, non-gravelly, sandy / sandy, very deep

Summary of Properties

Drainage	Rapidly drained. Soil never remains wet for more than a few hours.						
Fertility	Inherent fertility is very low as indicated by the exchangeable cation data. The soil has very limited capacity to retain nutrients, and deficiencies of phosphorus, nitrogen, zinc, copper and manganese are common. Organic carbon is low at sampling site.						
рН	Neutral to slightly acidic throughout.						
Rooting depth	50 mm in pit.						
Barriers to root growth							
Physical:	No physical barriers.						
Chemical:	Low nutrient status and retention capacity prevent roots extending further.						
Water holding capacity	30 mm in root zone.						
Seedling emergence:	Reduced by water repellence.						
Workability:	Soft / loose surface is easily worked.						
Erosion Potential							
Water:	Low.						
Wind:	High to extreme.						

Laboratory Data

Depth cm	pH H2O	pH CaC1 ₂	CO3 %	EC1:5 dS/m	ECe dS/m	Org.C %	Avail. P K							CEC cmol	Exchangeable Cations cmol(+)/kg				ESP
							mg/kg	mg/kg		Cu	Fe	Mn	Zn	(+)/kg	Ca	Mg	Na	K	
Paddock	6.7	6.3	<1	0.02	0.21	0.4	3	67	< 0.40	< 0.05	12	0.81	0.14	1.7	1.25	0.33	0.06	0.10	na
0-15	6.5	6.2	<1	0.02	0.16	0.3	3	52	< 0.40	< 0.05	20	0.7	0.11	2.0	1.41	0.34	0.05	0.08	na
15-50	6.7	6.6	<1	0.01	0.11	0.1	<2	52	< 0.40	< 0.05	12	< 0.06	< 0.06	1.1	0.66	0.23	0.05	0.07	na
50-100	6.7	6.8	<1	0.01	0.08	< 0.1	<2	40	0.83	< 0.05	7.6	4.4	< 0.06	1.0	0.46	0.24	0.05	0.09	na
100-150	6.8	6.7	<1	0.01	0.08	< 0.1	<2	<40	0.52	< 0.05	3	< 0.06	< 0.06	1.0	0.35	0.30	0.05	0.05	na
150-200	6.9	6.8	<1	0.01	0.12	< 0.1	<2	59	0.41	< 0.05	2.8	< 0.06	< 0.06	1.0	0.45	0.35	0.04	0.09	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.