BLEACHED SAND OVER SANDY CLAY LOAM

General Description: Thick bleached sand over a brown sandy clay loam

Landform:	Gently undulatin	g plains.	There is	28						
Substrate:	Tertiary sandy cl Sand equivalent)	ay (Parilla								
Vegetation:	Mallee									
Type Site:	Site No.:	MM042								
	1:50,000 sheet: Annual rainfall: Landform: Surface:	6927-2 (Parrakie) 400 mm Crest of low sandhill Loose with no stones	Hund Samp	Allenby 29/11/91	nby 1/91					
Soil Description	1:									
Depth (cm)	Description									
0-11	Brown loose san	d. Abrupt to:	科學學科							
11-42	Bleached loose s	and. Clear to:		. and	the state					
42-66	Yellowish brown with minor fine of tongues of bleach	a massive light sandy cl carbonate segregations a ned loose sand. Clear to	ay loam and :	And		A minimum and the second				
66-93	Yellowish brown sandy clay loam segregations. Ab	and yellowish red mas with minor fine carbona rupt to:	sive ate	T						
93-125	Yellowish red an sandy clay loam segregations. Sha	d brownish yellow mas with minor fine carbons arp to:	sive ate							
125-205	Red and brownis minor fine carbo	h yellow massive sandy nate segregations. Diffu	clay with use to:			100				
205-215	Yellowish red an sandy clay.	d yellowish brown mas	sive							

Classification: Bleached, Hypocalcic, Brown Kandosol; thick, non-gravelly, sandy / clay loamy, moderate

Summary of Properties

Drainage	Rapidly drained. Soil never remains saturated for more than a few hours.							
Fertility	Inherent fertility is low as indicated by the exchangeable cation data, and low clay and organic matter contents. Phosphorus, nitrogen, zinc and copper deficiencies are likely. At the sampling site, potassium is also deficient. Manganese may be needed for lupins.							
рН	Slightly acidic at the surface, alkaline with depth.							
Rooting depth	66 cm in pit, but few roots below 42 cm.							
Barriers to root growth								
Physical:	No physical barriers.							
Chemical:	No barriers, but low nutrient status and retention capacity limit root depth.							
Water holding capacity	25 mm.							
Seedling emergence:	Usually reduced by water repellence.							
Workability:	Soft to loose surface is easily worked.							
Erosion Potential								
Water:	Low.							
Wind:	Moderate to moderately high.							

Laboratory Data

Depth cm	pH H ₂ O	pH CaC1 ₂	CO3 %	EC1:5 dS/m	ECe dS/m	Org.C %	C Avail. Avail. P K		Boron mg/kg	Trace Elements mg/kg (DTPA)			CEC cmol	Excl	crol(+)/kg				
							mg/kg	mg/kg		Cu	Fe	Mn	Zn	(+)/kg	Ca	Mg	Na	K	
Paddock	6.5	6.5	< 0.1	0.07	0.40	0.29	12	63	0.5	0.05	12	1.5	0.31	2.0	1.37	0.44	0.15	0.11	na
0-11	6.3	6.2	< 0.1	0.05	0.25	0.24	14	31	1.0	0.05	10	0.97	0.27	1.5	1.27	0.27	0.06	0.10	na
11-42	6.2	6.2	< 0.1	0.04	0.22	0.06	8.6	16	0.1	0.06	7.6	0.11	0.08	0.9	0.56	0.14	0.03	0.08	na
42-66	8.6	7.3	< 0.1	0.12	0.28	0.10	3.9	160	0.8	0.07	13	0.03	0.06	7.7	4.79	2.07	0.12	0.42	1.6
66-93	7.7	6.8	< 0.1	0.05	0.27	0.05	0.93	140	1.0	0.06	7.0	0.02	0.05	5.5	3.00	2.22	0.15	0.33	2.7
93-125	8.2	7.1	< 0.1	0.09	0.36	0.07	0.40	210	3.4	0.06	6.5	0.05	0.05	8.3	3.90	3.72	0.32	0.55	3.9
125-205	-	-	-	-	-	-	-	-	-	-	-	-	-	_	-	-	-	-	-
205-215	8.6	7.0	< 0.1	0.10	0.79	0.05	0.23	240	7.3	0.14	7.8	0.15	0.04	10.8	3.15	5.53	1.50	0.60	13.9

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.