

Project Name: W.A. Hardpan Soils
Project Code: HP1 Site ID: A195 Observation ID: 1
Agency Name: CSIRO Division of Soils (WA)

Site Information

Desc. By:	C.G. Stephens	Locality:	
Date Desc.:	21/07/55	Elevation:	No Data
Map Ref.:		Rainfall:	0
Northing/Long.:	121.121111111111	Runoff:	Moderately rapid
Easting/Lat.:	-29.961666666667	Drainage:	Moderately well drained

Geology

ExposureType:	No Data	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	No Data

Land Form

Rel/Slope Class:	Undulating rises 9-30m 3-10%	Pattern Type:	Rises
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	Gently inclined
Slope:	%	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Haplic Eutrophic Red Kandosol		Principal Profile Form:	N/A
ASC Confidence:		Great Soil Group:	N/A

Analytical data are incomplete but reasonable confidence.

Site Disturbance:

Vegetation: Low Strata - , , . *Species includes - None recorded
Mid Strata - , , . *Species includes - None recorded
Tall Strata - , , . *Species includes - Eucalyptus species, Acacia species, Acacia tetragonophylla

Surface Coarse Fragments:

Profile Morphology

A	0 - 0.08 m	Red (2.5YR4/6-Dry); ; Sand; Single grain grade of structure; Diffuse change to -
	0.08 - 0.18 m	Red (10R4/8-Moist); ; Sand; Single grain grade of structure; Diffuse change to -
	0.18 - 0.66 m	Red (10R4/8-Moist); ; Sand; Single grain grade of structure; Diffuse change to -
B	0.66 - 1.02 m	Red (10R4/8-Moist); ; Sandy clay loam; Single grain grade of structure; Diffuse change to -
B	1.04 - 1.4 m	Red (10R5/8-Moist); ; Sandy clay loam; Single grain grade of structure; Clear change to -
B	1.4 - 1.98 m	Red (10R5/8-Moist); ; Sandy clay loam; Single grain grade of structure;

Morphological Notes

Observation Notes

FORMATION
SURFACE APPEARS TO BE WIND
SCULPTURED ON BOTH MARCO & MICRO SCALE. TOPOGRAPHY IN PART POSSIBLY DUE TO LOW WIDE BASED DU

Site Notes

MENZIES

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Ca	(+)/kg			%
0 - 0.08	6.8H	0.004C	1.8K	0.4	0.13	0.02	1.7D			
0.08 - 0.18	7.1H	0.005C								
0.18 - 0.66	8.1H	0.008C	2.4K	0.8	0.25	0.1	0.7D			
0.66 - 1.02	9.6H	0.092C								
1.04 - 1.4	9.7H	0.21C								
1.4 - 1.98	9.7H	0.25C								

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
m	%	C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
		%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.08		0.43E		0.005F	0.022B				73C	17	3	6
0.08 - 0.18									69C	20	3	8
0.18 - 0.66		0.15E		0.004F	0.012B							
0.66 - 1.02									47C	33	1	18
1.04 - 1.4												
1.4 - 1.98								20	47C	25	5	21

[illegible]

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Laboratory Analyses Completed for this profile

15_NR_CA	Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded
15_NR_H	Hydrogen Cation - meq per 100g of soil - Not recorded
15_NR_K	Exch. basic cations (K++) - meq per 100g of soil - Not recorded
15_NR_MG	Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded
15_NR_NA	Exch. basic cations (Na++) - meq per 100g of soil - Not recorded
2_LOI	Loss on Ignition (%)
2A1	Air-dry moisture content
3A_TSS	Electrical conductivity or soluble salts - Total soluble salts %
4_NR	pH of soil - Not recorded
5_NR	Water soluble Chloride - Cl(%) - Not recorded
6Z	Organic carbon (%) - Not recorded
7_NR	Total nitrogen (%) - Not recorded
9A_NR	Total element - P(%) - Not recorded
P10_GRAV	Gravel (%)
P10_NR_C	Clay (%) - Not recorded
P10_NR_CS	Coarse sand (%) - Not recorded
P10_NR_FS	Fine sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded