Project Name: CAP
Project Code: CAP **Site ID:** P158 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (WA)

Site Information

Desc. By: E. Bettenay
Locality: 3 chains west of Boyanup/Donnybrook Road and 60 chains south Gwindinup:
Date Desc.: 24/04/53
Elevation: No Data
Map Ref.: Sheet No. : 2030 1:100000
Rainfall: 0
Northing/Long.: 115.747777777778
Runoff: Rapid
Easting/Lat.: -33.5244444444445
Drainage: Moderately well drained

Geology

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

Land Form

Rel/Slope Class: No Data
Pattern Type: No Data
Morph. Type: No Data
Relief: No Data
Elem. Type: Hillslope
Slope Category: No Data
Slope: 0 %
Aspect: 45 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Ferric Dystrophic Yellow Chromosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: N/A
Great Soil Group: N/A

Site Disturbance:

Vegetation:

Low Strata - Forb, , . *Species includes - None recorded
Mid Strata - Tree, , . *Species includes - None recorded
Tall Strata - Tree, , . *Species includes - None Recorded

Surface Coarse Fragments:

20-50%, large Boulders, >2m, , Substrate material

Profile Morphology

A1	0 - 0.025 m	Greyish brown (10YR5/2-Moist); ; Sand (Fibric); Single grain grade of structure; Loose consistence; Non-plastic; Many (20 - 50 %), Ferruginous, , ; Field pH 6.5 (pH meter); Diffuse, Smooth change to -
A2	0.025 - 0.96 m	Pale brown (10YR6/3-Moist); ; Sand; Single grain grade of structure; Loose consistence; Non-plastic; Very many (50 - 100 %), Ferruginous, , Nodules; Field pH 6.5 (pH meter); Clear, Irregular change to -
B1	0.96 - 1.9 m	Light yellowish brown (10YR6/4-Moist); , 5YR54; Sandy medium clay; Massive grade of structure; Dry; Weak consistence; Moderately plastic; Normal plasticity; Many (20 - 50 %), Ferruginous, , ; Field pH 6 (pH meter);
C	1.9 - 2.39 m	Light yellowish brown (10YR6/4-Moist); , 2.5YR66; Sandy clay loam; Massive grade of structure; Dry; Weak consistence; Moderately plastic; Normal plasticity; Very many (50 - 100 %), Ferruginous, , Concretions; Clear, Irregular change to -
C	2.39 - 4.32 m	Yellowish brown (10YR5/6-Moist); , 2.5YR48; , 10YR71; Sandy clay loam; Massive grade of structure; Dry; Weak consistence; Moderately plastic; Normal plasticity; Few (2 - 10 %), Ferruginous, , ;

Morphological Notes

Observation Notes

SURFACE COVERED WITH LARGE LATERITE BOULDERS EXTENDING TO 46CM:ROOT CHANNELS TO 3.66M FILLED WITH SCL + GV:

Site Notes

S.W.L.D.

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 0.025	6A	0.051A	4.1K	1.9	0.18	0.12				
0.025 - 0.96	6.5A	0.015A								
0.96 - 1.9	6A	0.024A	0.5K	0.9	0.06	0.06	3E		4.5B	
1.9 - 2.39	6.9A									
2.39 - 4.32	6.5A									

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis				
								GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.025		5.03D		0.005F	0.113B							
0.025 - 0.96												
0.96 - 1.9				0.005F				58	24D	34	4	37
1.9 - 2.39												
2.39 - 4.32												

Depth	COLE	Gravimetric/Volumetric Water Contents							K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar		
m		g/g - m3/m3							mm/h	mm/h
0 - 0.025										
0.025 - 0.96										
0.96 - 1.9										
1.9 - 2.39										
2.39 - 4.32										

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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_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
15G1_H	Hydrogen Cation - meq per 100g of soil - 1M KCl Exch. Acidity By titration to pH 8.0
15J_H	Sum of Ex. cations + Ex. acidity - Sum of basic exch. cations and exch. (Hydrogen)
2_LOI	Loss on Ignition (%)
2A1	Air-dry moisture content
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
5A2	Chloride - 1:5 soil/water extract, automated colour
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7_NR	Total nitrogen (%) - Not recorded
9A_NR	Total element - P(%) - Not recorded
P10_GRAV	Gravel (%)
P10_PB_C	Clay (%) - Plummet balance
P10_PB_CS	Coarse sand (%) - Plummet balance
P10_PB_FS	Fine sand (%) - Plummet balance
P10_PB_Z	Silt (%) - Plummet balance