Project Name: FLI
Project Code: FLI **Site ID:** H106 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By: G.M. Dimmock
Locality: Near site 279:2CH west of Lady Barron-Sumer Camp Track:2.75ML south west of Memanah:
Date Desc.: 27/03/54
Elevation: 82 metres
Map Ref.: Sheet No. : 8517 1:100000
Rainfall: 740
Northing/Long.: 148.133333333333
Runoff: Moderately rapid
Easting/Lat.: -40.0333333333333
Drainage: No Data

Geology

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

Land Form

Rel/Slope Class: No Data
Pattern Type: Hills
Morph. Type: Flat
Relief: No Data
Elem. Type: Bench
Slope Category: No Data
Slope: 0 %
Aspect: No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Bleached-Mottled Dystrophic Grey Kurosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Dy5.41
Great Soil Group: Yellow podzolic soil

Site Disturbance: No effective disturbance other than grazing by hoofed animals

Vegetation:

Mid Strata - Heath shrub, 0.51-1m, . *Species includes - None recorded
Tall Strata - Malle shrub, 1.01-3m, . *Species includes - None Recorded

Surface Coarse Fragments: 10-20%, fine gravelly, 2-6mm, angular, Quartz

Profile Morphology

A1	0 - 0.05 m	Grey (10YR5/1-Moist); ; Loamy coarse sand; Single grain grade of structure; Moist; Firm consistence; 2-10%, angular, Quartz, coarse fragments; Field pH 5 (pH meter); ManySharp, Irregular change to -
A2	0.08 - 0.14 m	Light brownish grey (10YR6/2-Moist); ; Sand; Single grain grade of structure; Moderately moist; Firm consistence; 20-50%, medium gravelly, 6-20mm, angular, Quartz, coarse fragments; Irregular change to -
A2	0.14 - 0.2 m	Light brownish grey (10YR6/2-Moist); ; Sand; Single grain grade of structure; Moderately moist; Very firm consistence; 20-50%, angular, Quartz, coarse fragments; Field pH 4.5 (pH meter);
B	0.23 - 0.33 m	Light brownish grey (10YR6/2-Moist); , 10YR52; , 10YR56; Light clay; Moderate grade of structure, 50-100 mm, Prismatic; Moderately moist; Very firm consistence; 20-50%, coarse gravelly, 20-60mm, angular, Quartz, coarse fragments;
B	0.33 - 0.48 m	Yellowish brown (10YR5/6-Moist); , 10YR62; , 10YR52; Light clay; Moderate grade of structure, 50-100 mm, Prismatic; Moderately moist; Firm consistence; 2-10%, angular, Quartz, coarse fragments; Diffuse change to -
B	0.48 - 0.61 m	Yellowish brown (10YR5/6-Moist); , 10YR82; , 10YR62; Light clay; Weak grade of structure, 50-100 mm, Prismatic; Moderately moist; Very weak consistence; 10-20%, angular, Quartz, coarse fragments;
B	0.61 - 0.74 m	Yellowish brown (10YR5/6-Moist); , 10YR82; , 10YR62; Light clay; Weak grade of structure, 50-100 mm, Prismatic; Moderately moist; Very weak consistence; 10-20%, angular, Quartz, coarse fragments;
	0.74 - 0.89 m	Brownish yellow (10YR6/6-Moist); , 10YR82; Light clay; Weak grade of structure, 50-100 mm, Prismatic; Very weak consistence; 10-20%, angular, Quartz, coarse fragments;
	1.52 - 1.6 m	White (10YR8/1-Moist); , 10YR72; , 10YR66; Light clay; Weak consistence; 20-50%, angular, Quartz, coarse fragments;

Morphological Notes

Observation Notes

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DISTRIBUTION OF GRAVEL THROUGHOUT CLAY HORIZON IS UNEVEN:

Site Notes

LACKRANA

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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 - 0.05	5A		4.6H	3	0.25	0.45	17.4H 24.3E		32.6B	
0.08 - 0.14	4.9A							4.5C		
0.14 - 0.2	4.6A							2.5C		
0.23 - 0.33	4.4A		0.52H	1	0.14	0.19	10.6H 15.8E		17.7B	
0.33 - 0.48	4.9A									
0.48 - 0.61	4.7A									
0.61 - 0.74	4.9A		0.47H	0.05	0.1	0.13	11.3H 22E		22.8B	
0.74 - 0.89	4.8A									
1.52 - 1.6	4.8A		0.33H	0.18	0.06	0.15	4.4H 7.2E		7.9B	

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 - 0.05		6.1D		0.006D	0.24A			8	34B	37	11	8
0.08 - 0.14		1.5D			0.061A							
0.14 - 0.2		0.8D										
0.23 - 0.33		1D						30	29D	9	10	53
0.33 - 0.48												
0.48 - 0.61												
0.61 - 0.74								13	13D	5	6	71
0.74 - 0.89												
1.52 - 1.6								24	29D	10	14	46

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 - 0.05									
0.08 - 0.14									
0.14 - 0.2									
0.23 - 0.33									
0.33 - 0.48									
0.48 - 0.61									
0.61 - 0.74									
0.74 - 0.89									
1.52 - 1.6									

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Laboratory Analyses Completed for this profile

15D1_CEC	CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
15E1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble
15E1_K	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_MG	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_NA	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15G_C_H1	Exchangeable hydrogen - meq per 100g of soil - Hydrogen By back titration of A or B
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
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
7A2	Total nitrogen - semimicro Kjeldahl , automated colour
9A_HCL	Total element - P(%) - By boiling HCl
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
P10A1_C	Clay (%) - Pipette
P10A1_CS	Coarse sand (%) - Pipette
P10A1_FS	Fine sand (%) - Pipette
P10A1_Z	Silt (%) - Pipette