Project Name: YAMBULLA RESEARCH CATCHMENTS
Project Code: 1000196 **Site ID:** YAM_RC25 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By: P. Ryan
Date Desc.: 10/10/86
Map Ref.: Sheet No. : 8823 1:25000
Northing/Long.: 5869555 AMG zone: 55
Easting/Lat.: 735750 Datum: AGD66
Locality:
Elevation: No Data
Rainfall: No Data
Runoff: No Data
Drainage: Very poorly drained

Geology

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

Land Form

Rel/Slope Class: No Data
Morph. Type: Upper-slope
Elem. Type: Hillslope
Slope: 24 %
Pattern Type: No Data
Relief: 0 metres
Slope Category: No Data
Aspect: 90 degrees

Surface Soil Condition (dry): Firm

Erosion: No sheet erosion (sheet) No rill erosion (rill) No gully erosion (gully)

Soil Classification

Australian Soil Classification:
N/A
ASC Confidence:
Confidence level not specified
Mapping Unit: N/A
Principal Profile Form: Dg4.81
Great Soil Group: Gleyed podzolic soil

Site Disturbance:

Vegetation:

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

Profile Morphology

O1	0 - 0.04 m	Organic Layer; ; Medium sandy clay loam; Wet; Slightly plastic; Slightly sticky; Clear, Wavy change to -
O2	0.04 - 0.07 m	Organic Layer; ; Clayey coarse sand; Wet; Non-plastic; Slightly sticky; Clear, Smooth change to -
A1	0.07 - 0.2 m	Dark grey (10YR4/1-Moist); ; Coarse sandy clay; Moderate grade of structure, 10-20 mm, Polyhedral; Rough-ped fabric; Wet; Firm consistence; Moderately plastic; Moderately sticky; 2-10%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Field pH 5.5 (Raupach);
A2e	0.2 - 0.47 m	Light grey (10YR7/1-Moist); ; Light medium clay; Single grain grade of structure; Sandy (grains prominent) fabric; Very weak consistence; Very plastic; Moderately sticky; 10-20%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Field pH 5.5 (Raupach);
B21	0.47 - 0.67 m	Light grey (5Y7/1-Moist); Mottles, 2-10% , Faint; Massive grade of structure; Sandy (grains prominent) fabric; Firm consistence; 10-20%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Field pH 6 (Raupach);
B22	0.67 - 0.87 m	Greenish grey (5GY6/1-Moist); Mottles, 2-10% , Faint; Massive grade of structure; Sandy (grains prominent) fabric;

Morphological Notes

Observation Notes

Perched watertable above gleyed B2 hor. A2 is very dispersive- sloughing into pit. In other locations rock is close tosurface.

Site Notes

Catch.2/1405

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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							%
0.07 - 0.2	4.01I 4.42H		0.28F	1.27	0.15	0.45	0.43G			
0.2 - 0.47	3.89I 4.65H		0.09F	0.7	0.1	0.26	0.31G			
0.47 - 0.67	3.78I 4.5H		0.13F	2.06	0.19	0.48	0.63G			
0.67 - 0.87	3.85I 4.55H		0.12F	3.02	0.27	0.55	0.85G			

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			%		
0.07 - 0.2		2.15A		29F	<0.01E			3.7				
0.2 - 0.47		0.24A		16F	<0.01E			21.2				
0.47 - 0.67		0.43A		21F	<0.01E			15.8				
0.67 - 0.87		0.33A		25F	<0.01E			9.5				

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
0.07 - 0.2									
0.2 - 0.47									
0.47 - 0.67									
0.67 - 0.87									

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Laboratory Analyses Completed for this profile

15D1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
15D1_K	Exchangeable bases and CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
15D1_MG	Exchangeable bases and CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
15D1_NA	Exchangeable bases and CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
15G_C_AL2	Exchangeable aluminium - meq per 100g of soil - Aluminium By KCl extraction and detremination By AAS
2A1	Air-dry moisture content
4A_C_1	pH of soil - pH of 1:1 soil/water suspension
4C_C_1	pH of 1:1 soil/1M potassium chloride suspension
6A1	Organic carbon - Walkley and Black
7A1	Total nitrogen - semimicro Kjeldahl, steam distillation
9A_NR	Total element - P(%) - Not recorded
P10_GRAV	Gravel (%)