Project Name: YAMBULLA RESEARCH CATCHMENTS
Project Code: 1000196 **Site ID:** YAM_RC18 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By: P. Ryan
Date Desc.: 17/09/86
Map Ref.: Sheet No. : 8823 1:25000
Northing/Long.: 5869375 AMG zone: 55
Easting/Lat.: 736590 Datum: AGD66
Locality:
Elevation: No Data
Rainfall: No Data
Runoff: No Data
Drainage: Well drained

Geology

ExposureType: Soil pit
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: 36 %
Pattern Type: No Data
Relief: 0 metres
Slope Category: No Data
Aspect: 90 degrees

Surface Soil Condition (dry):

Erosion: Partial, Minor (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: Dy4.51
Great Soil Group: No suitable group

Site Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.12 m	Very dark brown (10YR2/2-Moist); ; Coarse sandy loam; Weak grade of structure, 2-5 mm, Granular; Earthy fabric; Moist; Very weak consistence; Non-plastic; Non-sticky; 10-20%, cobbly, 60-200mm, angular, dispersed, coarse fragments; Field pH 4 (Raupach); Clear, Smooth change to -
B1	0.12 - 0.26 m	Brown (10YR4/3-Moist); ; Coarse sandy clay loam; Weak grade of structure, 10-20 mm, Polyhedral; Earthy fabric; Moist; Very weak consistence; Slightly plastic; Slightly sticky; 10-20%, cobbly, 60-200mm, angular, dispersed, coarse fragments; Field pH 5 (Raupach);
B2	0.26 - 0.5 m	Brown (10YR5/3-Moist); ; Coarse sandy clay loam; Weak grade of structure, 10-20 mm, Polyhedral; Earthy fabric; Moist; Weak consistence; Slightly plastic; Slightly sticky; 10-20%, cobbly, 60-200mm, angular, dispersed, coarse fragments; Field pH 5.5 (Raupach); Gradual, Smooth change to -
2C1	0.5 - 0.83 m	Light brown (7.5YR6/4-Moist); ; Coarse sandy clay loam; Massive grade of structure; Earthy fabric; Moist; Weak consistence; Slightly plastic; Moderately sticky; 20-50%, cobbly, 60-200mm, angular, dispersed, coarse fragments; Field pH 5.5 (Raupach); Clear, Smooth change to -
2C2	0.83 - 1.05 m	Reddish yellow (7.5YR6/6-Moist); ; Coarse sandy clay loam; Massive grade of structure; Sandy (grains prominent) fabric; Moist; Firm consistence; Slightly plastic; Moderately sticky; 10-20%, fine gravelly, 2-6mm, subrounded, undisturbed, Adamellite, coarse fragments;

Morphological Notes

2C1 Bolus dispersive.

Observation Notes

Downslope of Ordovician sediments. Thickcolluvium a mixture of 0 & Dgwa. Lower C hor is mainly granite. Sediments are Meta-sandstones, Fe-rich.

Site Notes

Catch.2/1203

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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 - 0.12	3.31I 3.46H		1.84F	0.95	0.23	1.27	2.09G			
0.12 - 0.26	3.67I 4.1H		1.14F	0.79	0.2	0.84	1.22G			
0.5 - 0.83	3.74I 4.75H		0.08F	0.89	0.21	0.14	0.8G			
0.83 - 1.05	3.83I 4.97H		0.05F	1.86	0.26	0.25	0.51G			

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 - 0.12		5.94A		47F	<0.01E			35.5				
0.12 - 0.26		1.68A		24F	<0.01E			41.5				
0.5 - 0.83		0.17A		19F	<0.01E			30.1				
0.83 - 1.05		0.12A		22F	<0.01E			23.1				

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 - 0.12									
0.12 - 0.26									
0.5 - 0.83									
0.83 - 1.05									

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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 (%)