Project Name: YAMBULLA RESEARCH CATCHMENTS
Project Code: 1000196 **Site ID:** YAM_RC13 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By: P. Ryan
Date Desc.: 15/09/86
Map Ref.: Sheet No. : 8823 1:25000
Northing/Long.: 5869090 AMG zone: 55
Easting/Lat.: 736285 Datum: AGD66
Locality:
Elevation: No Data
Rainfall: No Data
Runoff: No Data
Drainage: Rapidly 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: 16 %
Pattern Type: No Data
Relief: 0 metres
Slope Category: No Data
Aspect: 225 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: Gn2.94
Great Soil Group: Yellow podzolic soil

Site Disturbance:

Vegetation:

Surface Coarse Fragments: 10-20%, fine gravelly, 2-6mm, subrounded, Quartz; 10-20%, cobbly, 60-200mm, subangular, Adamellite

Profile Morphology

O2	0 - 0.02 m	Organic Layer; ; Coarse sand; Moderately moist; Non-plastic; Slightly sticky; Clear, Smooth change to -
A1e	0.02 - 0.09 m	Light grey (10YR7/1-Moist); ; Clayey coarse sand; Single grain grade of structure; Earthy fabric; Moderately moist; Very weak consistence; Non-plastic; Slightly sticky; 10-20%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; Field pH 4 (Raupach); Gradual, Smooth change to -
B1	0.09 - 0.32 m	Pale brown (10YR6/3-Moist); ; Clayey coarse sand; Weak grade of structure, 10-20 mm, Subangular blocky; Earthy fabric; Moderately moist; Weak consistence; Non-plastic; Slightly sticky; 10-20%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; 10-20%, cobbly, 60-200mm, subangular, dispersed, Adamellite, coarse fragments; Field pH 4.5 (Raupach); Gradual, Wavy change to -
B21	0.32 - 0.62 m	Light yellowish brown (10YR6/4-Moist); ; Clay loam, sandy; Weak grade of structure, 10-20 mm, Subangular blocky; Earthy fabric; Moderately moist; Weak consistence; Moderately plastic; Moderately sticky; 2-10%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; Field pH 4 (Raupach);
B22	0.62 - 0.92 m	Brownish yellow (10YR6/6-Moist); ; Massive grade of structure; Earthy fabric; Weak consistence; 10-20%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; 10-20%, bouldery, 600mm-2m, rounded, undisturbed, Adamellite, coarse fragments; Field pH 5 (Raupach);
C	0.92 - 0.93 m	;

Morphological Notes

Observation Notes

Little evidence of A1 hor. A very sandy soil with colluvial surface horizons. B3 is probably in-situ.

Site Notes

Catch.2/20911

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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							%
0.02 - 0.09	3.46I 3.78H		2.04F	0.97	0.24	0.17	1.21G			
0.09 - 0.32	3.76I 4.3H		0.43F	0.49	0.28	0.12	1.28G			
0.62 - 0.92	3.96I 4.6H		0.38F	1.59	0.43	0.17	1.6G			

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			%		
0.02 - 0.09		4.12A		21F	<0.01E			44.2				
0.09 - 0.32		0.93A		18F	<0.01E			37.9				
0.62 - 0.92		0.89A		19F	<0.01E			41.9				

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
0.02 - 0.09									
0.09 - 0.32									
0.62 - 0.92									

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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 (%)