Project Name: YAMBULLA RESEARCH CATCHMENTS
Project Code: 1000196 **Site ID:** YAM_RC19 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By: P. Ryan
Date Desc.: 18/09/86
Map Ref.: Sheet No. : 8823 1:25000
Northing/Long.: 5869285 AMG zone: 55
Easting/Lat.: 735510 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: 21 %
Pattern Type: No Data
Relief: 0 metres
Slope Category: No Data
Aspect: 90 degrees

Surface Soil Condition (dry):

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: Gn2.91
Great Soil Group: Yellow podzolic soil

Site Disturbance:

Vegetation:

Surface Coarse Fragments: 0-2%, , ,

Profile Morphology

O1	0 - 0.03 m	Organic Layer; ; Loamy coarse sand; Moist; Non-plastic; Non-sticky; Abrupt, Wavy change to -
A1	0.03 - 0.15 m	Black (10YR2/1-Moist); ; Coarse sandy loam; Weak grade of structure, Polyhedral; 10-20 mm; Earthy fabric; Moist; Weak consistence; Slightly plastic; Slightly sticky; 2-10%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; Field pH 4.5 (Raupach); Clear, Wavy change to -
A2j	0.15 - 0.3 m	Grey (10YR6/1-Moist); ; Coarse sandy clay loam; Weak grade of structure, Polyhedral; 10-20 mm; Earthy fabric; Moist; Weak consistence; Slightly plastic; Moderately sticky; 2-10%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; 2-10%, cobbly, 60-200mm, subrounded, dispersed, coarse fragments; Field pH 5.5 (Raupach); Clear, Smooth change to -
B21	0.3 - 0.5 m	Brown (7.5YR5/2-Moist); ; Coarse sandy clay loam; Weak grade of structure, Polyhedral; 10-20 mm; Earthy fabric; Moist; Weak consistence; Slightly plastic; Moderately sticky; 2-10%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; 2-10%, cobbly, 60-200mm, subrounded, dispersed, coarse fragments; Field pH 5 (Raupach); Clear, Smooth change to -
B22	0.5 - 0.78 m	Brown (7.5YR5/4-Moist); ; Massive grade of structure; Earthy fabric; Moist; Firm consistence; 10-20%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; 10-20%, cobbly, 60-200mm, subrounded, dispersed, Adamellite, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Field pH 5 (Raupach);
C	0.78 - 0.88 m	Brownish yellow (10YR6/6-Moist); ; Massive grade of structure; Earthy fabric; Very firm consistence; 20-50%, fine gravelly, 2-6mm, subangular, undisturbed, Quartz, coarse fragments; 20-50%, fine gravelly, 2-6mm, subrounded, undisturbed, Adamellite, coarse fragments; Field pH 5 (Raupach);

Morphological Notes

A2j	Bolus dispersive
B21	Bolus dispersive

Observation Notes

Western watershed. Possible input of Devonian sediments- Merimbula Beds.

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Site Notes
Catch.2/1102

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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							%
0.03 - 0.15	3.57I 3.61H		3.67F	2.28	0.52	1.09	0.52G			
0.15 - 0.3	3.36I 3.65H		0.43F	0.97	0.25	0.83	2.91G			
0.5 - 0.78	3.62I 4.39H		0.1F	1.57	0.33	0.29	2.17G			

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			%		
0.03 - 0.15		7.95A		53F	<0.01E			27.2				
0.15 - 0.3		1.95A		17F	<0.01E			24.8				
0.5 - 0.78		0.31A		16F	<0.01E			22.9				

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
0.03 - 0.15									
0.15 - 0.3									
0.5 - 0.78									

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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 (%)