

Project Name: YAMBULLA RESEARCH CATCHMENTS
Project Code: 1000196 **Site ID:** YAM_RC9 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	P. Ryan	Locality:	
Date Desc.:	07/05/86	Elevation:	No Data
Map Ref.:	Sheet No. : 8823 1:25000	Rainfall:	No Data
Northing/Long.:	5865750 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	732950 Datum: AGD66	Drainage:	Well drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	Probable
Geol. Ref.:	DGL	Substrate Material:	Adamellite

Land Form

Rel/Slope Class:	No Data	Pattern Type:	No Data
Morph. Type:	Lower-slope	Relief:	0 metres
Elem. Type:	Bench	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Soft

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

Soil Classification

Australian Soil Classification:	N/A	Mapping Unit:	N/A
ASC Confidence:	Confidence level not specified	Principal Profile Form:	Gn4.81
		Great Soil Group:	Brown podzolic soil

Site Disturbance:

Vegetation:

Surface Coarse Fragments: 2-10%, , subangular, Adamellite; 2-10%, , subangular, Quartz

Profile Morphology

A1	0 - 0.07 m	Very dark greyish brown (10YR3/2-Moist); ; Loamy sand (Sapric); Single grain grade of structure; Dry; Loose consistence; Non-plastic; Slightly sticky; 10-20%, subangular, dispersed, Adamellite, coarse fragments; 10-20%, subangular, dispersed, Quartz, coarse fragments; 10-20%, subangular, dispersed, Coal, coarse fragments; Field pH 5 (Raupach); Clear, Smooth change to -
A3	0.07 - 0.4 m	Dark greyish brown (10YR4/2-Moist); ; Coarse sandy clay loam; Moderate grade of structure, 2-5 mm, Polyhedral; 5-10 mm; Rough-ped fabric; Dry; Firm consistence; Moderately plastic; Moderately sticky; 2-10%, subangular, dispersed, Adamellite, coarse fragments; 2-10%, subangular, dispersed, Quartz, coarse fragments; 2-10%, subangular, dispersed, Coal, coarse fragments; Field pH 6 (Raupach); Abrupt, Irregular change to -
B2	0.4 - 0.66 m	Yellowish brown (10YR5/6-Moist); ; Coarse sandy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Rough-ped fabric; Moderately moist; Very firm consistence; 2-10%, subangular, dispersed, Adamellite, coarse fragments; 2-10%, subangular, dispersed, Quartz, coarse fragments; 2-10%, subangular, dispersed, Coal, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Field pH 5.5 (Raupach); Clear, Wavy change to -
BC	0.66 - 0.7 m	; Moderately moist; Very firm consistence; 10-20%, subangular, undisturbed, Adamellite, coarse fragments; 10-20%, subangular, undisturbed, Quartz, coarse fragments; 10-20%, subangular, dispersed, Coal, coarse fragments;

Morphological Notes

A3	Peds polyhedral, ant casting, variegate.
B2	Peds have clay skins and other cutans (<10% and faint)

Observation Notes

Western edge of catchment. Rock outcrop probably PM effect rather than pediment. Prominent mixing of A & B hor. Earthworm casting common.

Site Notes

catch.3/307-304

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Laboratory Test Results:

Depth m	pH	1:5 EC dS/m	Exchangeable Cations			Exchangeable Acidity Na Cmol (+)/kg	CEC	ECEC	ESP %
			Ca	Mg	K				
0 - 0.07	3.61I 4.35H		2.4F	1.6	0.64	0.7	2.97G		
0.07 - 0.4	4.2I 4.99H		0.56F	0.86	0.33	0.14	1.41G		
0.3 - 0.38	4.24I 4.66H		0.47F	0.72	0.5	0.75	1.19G		
0.4 - 0.66	4.19I 5.1H		0.56F	1.91	0.42	0.14	1.03G		

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.07		6.63A		50F	0.15E			20.6				
0.07 - 0.4		3.64A		46F	0.08E			14.7				
0.3 - 0.38		0.58A		57F	0.09E			22.5				
0.4 - 0.66		0.79A		28F	0.03E			32				

[illegible]

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Laboratory Analyses Completed for this profile

15D1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,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 (%)