

Project Name: YAMBULLA RESEARCH CATCHMENTS
Project Code: 1000196 **Site ID:** YAM_RC1 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	P. Ryan	Locality:	
Date Desc.:	18/03/86	Elevation:	No Data
Map Ref.:	Sheet No. : 8823 1:25000	Rainfall:	No Data
Northing/Long.:	5866025 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	733875 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:	Mid-slope	Relief:	0 metres
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	33 %	Aspect:	180 degrees

Surface Soil Condition (dry): Soft

Erosion: Stable, Minor (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:	Db3.11
		Great Soil Group:	Brown podzolic soil

Site Disturbance:

Vegetation:

Surface Coarse Fragments: 2-10%, stony, 200-600mm, subrounded, Adamellite

Profile Morphology

O1	0 - 0.03 m	Organic Layer; ; Sandy loam (Sapric); Dry; Non-plastic; Non-sticky; Abrupt, Smooth change to -
A1	0.03 - 0.07 m	Very dark greyish brown (10YR3/2-Moist); ; Coarse sandy clay loam; Single grain grade of structure; Dry; Loose consistence; Slightly plastic; Slightly sticky; 2-10%, coarse gravelly, 20-60mm, subangular, dispersed, Adamellite, coarse fragments; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Field pH 5.5 (Raupach); ManyGradual, Irregular change to -
B21	0.07 - 0.4 m	Dark yellowish brown (10YR4/4-Moist); ; Coarse sandy clay; Moderate grade of structure, 5-10 mm, Subangular blocky; 2-5 mm, Polyhedral; Rough-ped fabric; Moderately moist; Firm consistence; 2-10%, coarse gravelly, 20-60mm, subangular, dispersed, Adamellite, coarse fragments; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Field pH 6.5 (Raupach); CommonGradual, Irregular change to -
B22	0.4 - 0.68 m	Strong brown (7.5YR5/6-Moist); ; Moderate grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Firm consistence; 20-50%, cobbly, 60-200mm, subrounded, undisturbed, Adamellite, coarse fragments; 20-50%, fine gravelly, 2-6mm, subangular, undisturbed, Quartz, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, faint; Field pH 6.5 (Raupach); Common
BC	0.68 - 0.69 m	;

Morphological Notes

Observation Notes

B21 could possibly be A2 (colluvial) over in-situ B22. A1 is hydrophobic.

Site Notes

Catch.3/310-313

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Laboratory Test Results:

Depth m	pH	1:5 EC dS/m	Ca	Exchangeable Cations			Exchangeable Acidity	CEC	ECEC	ESP %
				Mg	K	Na Cmol (+)/kg				
0.03 - 0.07	4.48I 4.88H		8.96F	3.9	0.86	1.96	0.17G			
0.07 - 0.4	5.03I 5.58H		3.09F	1.68	0.44	1.02	0.02G			
0.4 - 0.68	4.35I 4.89H		1.63F	1.83	0.46	0.97	0.32G			

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
m	%	C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
		%	mg/kg	%	%	%	Mg/m3			%		
0.03 - 0.07		17.7A		210F	0.4E			28.4				
0.07 - 0.4		1.42A		59F	0.04E			13.3				
0.4 - 0.68		1.23A		76F	0.04E			15.6				

[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 (%)