

Project Name: YAMBULLA RESEARCH CATCHMENTS
Project Code: 1000196 **Site ID:** YAM_RC24 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	P. Ryan	Locality:	
Date Desc.:	09/10/86	Elevation:	No Data
Map Ref.:	Sheet No. : 8823 1:25000	Rainfall:	No Data
Northing/Long.:	5868895 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	736375 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:	Hillslope	Slope Category:	No Data
Slope:	7 %	Aspect:	45 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	Mapping Unit:	N/A
ASC Confidence:	Confidence level not specified	Principal Profile Form:	Dy5.81
		Great Soil Group:	Podzol

Site Disturbance:

Vegetation:

Surface Coarse Fragments: 2-10%, fine gravelly, 2-6mm, subangular, Quartz

Profile Morphology

A1	0 - 0.22 m	Very dark brown (10YR2/2-Moist); ; Coarse sandy loam; Weak grade of structure, 5-10 mm, Polyhedral; Earthy fabric; Moist; Weak consistence; Non-plastic; Slightly sticky; 2-10%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Field pH 4.5 (Raupach); Abrupt, Smooth change to -
A2e	0.22 - 0.32 m	Light brownish grey (10YR6/2-Moist); ; Clayey coarse sand; Single grain grade of structure; Sandy (grains prominent) fabric; Moist; Weak consistence; Non-plastic; Slightly sticky; 2-10%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Field pH 5 (Raupach); Clear, Wavy change to -
B2	0.32 - 0.54 m	Yellowish brown (10YR5/4-Moist); Mottles, 10-20% , Distinct; Mottles, 2-10% , Distinct; Coarse sandy clay loam; Massive grade of structure; Earthy fabric; Moist; Strong consistence; Slightly plastic; Moderately sticky; 2-10%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Many (20 - 50 %), Ferruginous, , Nodules; Many (20 - 50 %), Organic (humified), , Concretions; Field pH 5.5 (Raupach); Clear, Wavy change to -
B3	0.54 - 0.85 m	Pale yellow (2.5Y7/4-Moist); ; Clayey coarse sand; Massive grade of structure; Sandy (grains prominent) fabric; Moist; Weak consistence; Non-plastic; Slightly sticky; 2-10%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; 2-10%, cobbly, 60-200mm, subangular, dispersed, Adamellite, coarse fragments; Field pH 6 (Raupach); Gradual, Irregular change to -
C	0.85 - 0.9 m	;

Morphological Notes

B2 B2 ns

Observation Notes

Soil depth is variable with adjacent tors. Pockets of bleached A2 exist with-in pit but not on profile.

Site Notes

Catch.2/0712

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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 - 0.22	3.26I 3.43H		0.76F	0.7	0.2	1.1	2.27G		
0.22 - 0.32	3.53I 3.66H		0.16F	0.28	0.1	0.94	2.22G		
0.32 - 0.54	4.29I 4.43H		0.07F	0.26	0.24	0.43	0.41G		
0.54 - 0.85	3.99I 4.61H		0.08F	2	0.4	0.5	0.36G		

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Particle CS	Size FS	Analysis Silt	Analysis Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.22		3.78A		18F	<0.01E			14.7				
0.22 - 0.32		0.9A		35F	<0.01E			17.3				
0.32 - 0.54		1.28A		19F	<0.01E			24.4				
0.54 - 0.85		0.32A		21F	<0.01E			28.9				

[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 (%)