

Project Name: YAMBULLA RESEARCH CATCHMENTS
Project Code: 1000196 **Site ID:** YAM_RC2 **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.:	5865100 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	732650 Datum: AGD66	Drainage:	Rapidly 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:	Upper-slope	Relief:	0 metres
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	35 %	Aspect:	225 degrees

Surface Soil Condition (dry): Soft

Erosion: Partial, Minor (sheet) Partial, Minor (rill) No gully erosion (gully)

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
N/A		Principal Profile Form:	Um5.51
ASC Confidence:		Great Soil Group:	Lithosol
Confidence level not specified			

Site Disturbance:

Vegetation:

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

Profile Morphology

A1	0 - 0.12 m	Dark brown (10YR3/3-Moist); ; Coarse sandy clay loam; Weak grade of structure, 2-5 mm, Granular; Earthy fabric; Dry; Very weak consistence; Moderately plastic; Non-sticky; 2-10%, cobbly, 60-200mm, subangular, dispersed, Adamellite, coarse fragments; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Field pH 6.5 (Raupach); Clear, Wavy change to -
B2	0.12 - 0.45 m	Brown (7.5YR4/4-Moist); ; Coarse sandy clay loam; Weak grade of structure, 2-5 mm, Polyhedral; Earthy fabric; Dry; Firm consistence; Slightly plastic; Slightly sticky; 20-50%, fine gravelly, 2-6mm, subangular, reoriented, Adamellite, coarse fragments; 20-50%, fine gravelly, 2-6mm, subangular, reoriented, Quartz, coarse fragments; Field pH 6.5 (Raupach); Clear, Wavy change to -
BC	0.45 - 0.6 m	Brown (7.5YR5/4-Moist); ; Coarse sandy clay loam; Massive grade of structure; Earthy fabric; Dry; Firm consistence; Slightly plastic; Slightly sticky; 20-50%, fine gravelly, 2-6mm, subangular, undisturbed, Adamellite, coarse fragments; 20-50%, fine gravelly, 2-6mm, subangular, undisturbed, Quartz, coarse fragments; Field pH 7 (Raupach);

Morphological Notes

Observation Notes

Steep SW slope of Catch.3 Hollow with boulders upslope and down- slope. Assume
Saprolite
has redder hue than upper B hor.

Site Notes

Catch.3/302-303

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				cmol (+)/kg				%
0 - 0.12	4.69I 5.13H		4.11F	1.89	0.5	1.09	0.1G			
0.12 - 0.45	4.65I 5.28H		1.66F	1.08	0.38	1.09	0.08G			
0.45 - 0.6	4.54I 5.15H		1.15F	1.02	0.34	1.11	0.08G			

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 - 0.12		4.96A		92F	0.17E			28.4				
0.12 - 0.45		1.18A		38F	0.04E			41.9				
0.45 - 0.6		0.72A		34F	0.02E			36.2				

[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 (%)