

Project Name: YAMBULLA RESEARCH CATCHMENTS
Project Code: 1000196 **Site ID:** YAM_RC16 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	P. Ryan	Locality:	
Date Desc.:	16/09/86	Elevation:	No Data
Map Ref.:	Sheet No. : 8823 1:25000	Rainfall:	No Data
Northing/Long.:	5869190 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	736190 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:	Upper-slope	Relief:	0 metres
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	24 %	Aspect:	180 degrees

Surface Soil Condition (dry): Soft

Erosion: Partial, 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:	Dy4.61
		Great Soil Group:	No suitable group

Site Disturbance:

Vegetation:

Surface Coarse Fragments: 20-50%, stony, 200-600mm, subrounded, Adamellite; 20-50%, bouldery, 600mm-2m, subrounded, Adamellite

Profile Morphology

O1	0 - 0.02 m	Organic Layer; ; Coarse sandy loam; Moderately moist; Non-plastic; Non-sticky; Gradual, Wavy change to -
AB	0.02 - 0.12 m	Very dark greyish brown (10YR3/2-Moist); ; Coarse sandy loam; Weak grade of structure, 2-5 mm, Granular; Earthy fabric; Moist; Very weak consistence; Non-plastic; Slightly sticky; 10-20%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; Field pH 4 (Raupach); Gradual, Smooth change to -
A2	0.12 - 0.42 m	Yellowish brown (10YR5/4-Moist); ; Coarse sandy clay; Weak grade of structure, 10-20 mm; Earthy fabric; Moist; Weak consistence; Moderately plastic; Moderately sticky; 10-20%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; Field pH 4.5 (Raupach); Clear, Smooth change to -
B22	0.42 - 0.62 m	Strong brown (7.5YR5/8-Moist); ; Coarse sandy clay; Weak grade of structure, 10-20 mm, Subangular blocky; Earthy fabric; Moist; Firm consistence; Very plastic; Moderately sticky; 20-50%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; 20-50%, medium gravelly, 6-20mm, subrounded, dispersed, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Field pH 4.5 (Raupach); Sharp, Smooth change to -
B3	0.62 - 0.87 m	Brownish yellow (10YR6/6-Moist); Mottles, 2-10% , Faint; Massive grade of structure; Sandy (grains prominent) fabric; Firm consistence; 20-50%, fine gravelly, 2-6mm, subrounded, dispersed, Adamellite, coarse fragments; 20-50%, medium gravelly, 6-20mm, subrounded, dispersed, Adamellite, coarse fragments; Field pH 4 (Raupach);

Morphological Notes

Observation Notes

Just below Nth ridge. Tor-field site in colluvial dam.

Site Notes

Catch.2/1010

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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				%
0.02 - 0.12	4.17I 4.26H		0.5F	1.05	0.37	1	0.46G			
0.12 - 0.42	4.35I 4.82H		0.71F	0.78	0.32	0.13	0.44G			
0.42 - 0.62	3.87I 4.24H		0.38F	1.08	0.28	0.14	2.49G			

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			%		
0.02 - 0.12		6.96A		43F	<0.01E			44.4				
0.12 - 0.42		1.44A		28F	<0.01E			32.5				
0.42 - 0.62		0.62A		25F	<0.01E			10.5				

[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 (%)