

Project Name: YAMBULLA RESEARCH CATCHMENTS
Project Code: 1000196 **Site ID:** YAM_RC6 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	P. Ryan	Locality:	
Date Desc.:	05/05/86	Elevation:	No Data
Map Ref.:	Sheet No. : 8823 1:25000	Rainfall:	No Data
Northing/Long.:	5865175 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	732950 Datum: AGD66	Drainage:	Imperfectly 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:	Drainage depression	Slope Category:	No Data
Slope:	10 %	Aspect:	315 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:	Dy5.81
		Great Soil Group:	Yellow podzolic soil

Site Disturbance:

Vegetation:

Surface Coarse Fragments: 2-10%, medium gravelly, 6-20mm, rounded,

Profile Morphology

A1	0 - 0.08 m	Dark greyish brown (10YR4/2-Moist); ; Loamy coarse sand; Earthy fabric; Dry; Very weak consistence; Non-plastic; Non-sticky; 10-20%, medium gravelly, 6-20mm, rounded, dispersed, coarse fragments; Field pH 5.5 (Raupach); Clear, Wavy change to -
A21e	0.08 - 0.47 m	Light yellowish brown (10YR6/4-Moist); Light grey (10YR7/2-Dry); Mottles, 10-20% , Faint; Clayey coarse sand; Rough-ped fabric; Dry; Strong consistence; Slightly plastic; Slightly sticky; 10-20%, medium gravelly, 6-20mm, rounded, dispersed, coarse fragments; Field pH 6 (Raupach); Abrupt, Smooth change to -
A22e	0.47 - 0.7 m	Very pale brown (10YR7/3-Moist); Very pale brown (10YR7/3-Dry); ; Clayey coarse sand; Rough-ped fabric; Dry; Strong consistence; Slightly plastic; Slightly sticky; 2-10%, fine gravelly, 2-6mm, subangular, undisturbed, Adamellite, coarse fragments; Field pH 6 (Raupach); Sharp, Irregular change to -
B2t	0.7 - 0.9 m	Yellowish brown (10YR5/8-Moist); Mottles, 10-20% , Distinct; Coarse sandy clay; Moderately moist; Very firm consistence; Moderately plastic; Moderately sticky; 2-10%, fine gravelly, 2-6mm, subangular, undisturbed, Adamellite, coarse fragments; Few cutans, <10% of ped faces or walls coated, distinct; Field pH 5 (Raupach);

Morphological Notes

Observation Notes

Upper portion of drainage line. Surface to approx 50cm probably colluvial. A22 hor had vey firm consist. - near pan in nature.

Site Notes

Catch.3 303/307

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Laboratory Test Results:

Depth m	pH	1:5 EC dS/m	Exchangeable Cations			Exchangeable Acidity		CEC	ECEC	ESP %
			Ca	Mg	K	Na Cmol (+)/kg				
0 - 0.08	4.25I 5.35H		1.58F	0.8	0.32	0.21	0.81G			
0.3 - 0.38	4.26I 4.97H		0.39F	0.72	0.28	0.64	0.4G			
0.47 - 0.7	4.07I 4.98H		0.33F	1.24	0.24	0.58	0.26G			
0.7 - 0.9	4.15I 5.13H		0.77F	3.97	0.52	0.64	0.43G			

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 - 0.08		3.96A		17F	0.06E			23.4				
0.3 - 0.38		0.6A		12F	0.02E			42.9				
0.47 - 0.7		0.22A		9F	0.01E			23				
0.7 - 0.9		0.24A		26F	0.02E			13.7				

[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 (%)