

Project Name: YAMBULLA RESEARCH CATCHMENTS
Project Code: 1000196 **Site ID:** YAM_RC23 **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.:	5868795 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	736020 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:	Lower-slope	Relief:	0 metres
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	16 %	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:	Dy4.81
		Great Soil Group:	Yellow podzolic soil

Site Disturbance:

Vegetation:

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

Profile Morphology

O1	0 - 0.04 m	Organic Layer; ; Loamy coarse sand; Moderately moist; Non-plastic; Non-sticky;
O2	0.04 - 0.07 m	Organic Layer; ; Loamy coarse sand; Moderately moist; Non-plastic; Non-sticky; Gradual, Wavy change to -
A11	0.07 - 0.17 m	Dark greyish brown (10YR4/2-Moist); ; Loamy coarse sand; Single grain grade of structure; Earthy fabric; Moderately moist; Very weak consistence; Non-plastic; Non-sticky; 2-10%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Field pH 5.5 (Raupach); Abrupt, Irregular change to -
A11	0.17 - 0.33 m	Dark greyish brown (10YR4/2-Moist); ; Clayey coarse sand; Single grain grade of structure; Earthy fabric; Moist; Very weak consistence; Non-plastic; Slightly sticky; 2-10%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Field pH 5.5 (Raupach); Gradual, Wavy change to -
A12	0.33 - 0.47 m	Very dark grey (10YR3/1-Moist); ; Clayey coarse sand; Weak grade of structure, 5-10 mm, Polyhedral; Earthy fabric; Moist; Weak consistence; Non-plastic; Slightly sticky; 2-10%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; 2-10%, medium gravelly, 6-20mm, subangular, Coal, coarse fragments; Field pH 5.5 (Raupach); Gradual, Smooth change to -
A21e	0.47 - 0.79 m	Pale brown (10YR6/3-Moist); ; Coarse sandy clay loam; Weak grade of structure, 5-10 mm, Polyhedral; Sandy (grains prominent) fabric; Moist; Weak consistence; Slightly plastic; Slightly sticky; 2-10%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Field pH 5.5 (Raupach);
A22e	0.79 - 1.22 m	Pale brown (10YR6/3-Moist); ; Massive grade of structure; Sandy (grains prominent) fabric; Firm consistence; 2-10%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Few (2 - 10 %), Ferruginous, Very coarse (20 - 60 mm), Soft segregations; Few (2 - 10 %), Organic (humified), Very coarse (20 - 60 mm), Soft segregations; Field pH 5.5 (Raupach);
B2	1.22 - 1.37 m	Brownish yellow (10YR6/6-Moist); ; Massive grade of structure; Sandy (grains prominent) fabric; Firm consistence; 10-20%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; 10-20%, cobbly, 60-200mm, subrounded, Adamellite, coarse fragments; Field pH 5.5 (Raupach);

Morphological Notes

Observation Notes

Thick accumulation of colluvium. A11 is variegated in colour- recent addition ordisturbed. A12 is darker-charcoal rich. While

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Site Notes
Catch.2/0608

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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				
0.07 - 0.17	4.17I		1.25F	1.24	0.29	0.32	0.41G			
	4.72H									
0.57 - 0.77	3.92I		0.96F	1.48	0.33	0.33	0.76G			
	4.72H									
0.79 - 1.22	3.96I		0.04F	0.85	0.19	0.24	0.25G			
	4.68H									
1.22 - 1.37	4.22I		0.08F	2.01	0.23	1.08	0.14G			
	4.44H									

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			%		
0.07 - 0.17		3.23A		24F	<0.01E			9.4				
0.57 - 0.77		3.49A		24F	<0.01E			8.7				
0.79 - 1.22		0.07A		15F	<0.01E			11.6				
1.22 - 1.37		0.05A		13F	<0.01E			19.1				

[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 (%)