Project Name: YAMBULLA RESEARCH CATCHMENTS
Project Code: 1000196 **Site ID:** YAM_RC4 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By: P. Ryan
Date Desc.: 19/03/86
Map Ref.: Sheet No. : 8823 1:25000
Northing/Long.: 5865525 AMG zone: 55
Easting/Lat.: 733400 Datum: AGD66
Locality:
Elevation: No Data
Rainfall: No Data
Runoff: No Data
Drainage: Well drained

Geology

ExposureType: Soil pit
Geol. Ref.: DGL
Conf. Sub. is Parent. Mat.: Probable
Substrate Material: Adamellite

Land Form

Rel/Slope Class: No Data
Morph. Type: Mid-slope
Elem. Type: Hillslope
Slope: 18 %
Pattern Type: No Data
Relief: 0 metres
Slope Category: No Data
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
ASC Confidence:
Confidence level not specified
Mapping Unit: N/A
Principal Profile Form: Dy4.81
Great Soil Group: Yellow podzolic soil

Site Disturbance:

Vegetation:

Surface Coarse Fragments: 2-10%, cobbly, 60-200mm, subrounded, Adamellite

Profile Morphology

A1	0 - 0.08 m	Dark yellowish brown (10YR4/4-Moist); ; Coarse sandy loam; Weak grade of structure, 5-10 mm, Polyhedral; 2-5 mm, Granular; Rough-ped fabric; Dry; Weak consistence; Non-plastic; Non-sticky; 10-20%, coarse gravelly, 20-60mm, subrounded, dispersed, Adamellite, coarse fragments; 10-20%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), Nodules; Few (2 - 10 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Clear, Wavy change to -
A2e	0.08 - 0.33 m	Brownish yellow (10YR6/6-Moist); Very pale brown (10YR7/4-Dry); ; Coarse sandy clay loam; Weak grade of structure, 5-10 mm, Subangular blocky; Earthy fabric; Dry; Firm consistence; Slightly plastic; Slightly sticky; 10-20%, coarse gravelly, 20-60mm, subrounded, dispersed, Adamellite, coarse fragments; 10-20%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), Nodules; Few (2 - 10 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Gradual, Wavy change to -
B2	0.33 - 0.64 m	Brownish yellow (10YR6/8-Moist); ; Coarse sandy clay; Weak grade of structure, 5-10 mm, Subangular blocky; Rough-ped fabric; Moderately moist; Firm consistence; Moderately plastic; Moderately sticky; 2-10%, coarse gravelly, 20-60mm, subrounded, dispersed, Adamellite, coarse fragments; 2-10%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Clear, Smooth change to -
BC	0.64 - 0.8 m	Brownish yellow (10YR6/6-Moist); Mottles, 10-20% , Faint; Coarse sandy clay loam; Massive grade of structure; Earthy fabric; Moderately moist; Firm consistence; Moderately plastic; 10-20%, coarse gravelly, 20-60mm, subrounded, dispersed, Adamellite, coarse fragments; 10-20%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint;

Morphological Notes

Observation Notes

North-facing slope with tor field upslope. BC hor retains rock fabric.

Site Notes

Catch.3/306-309

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%
0 - 0.08	4.06I 4.82H		1.94F	0.95	0.44	0.89	0.8G			
0.08 - 0.33	4.14I 4.81H		0.58F	0.95	0.42	0.75	0.73G			
0.33 - 0.64	3.82I 4.47H		0.22F	0.88	0.55	0.92	1.55G			
0.64 - 0.8	3.96I 4.55H		0.26F	1.05	0.48	1.03	0.81G			

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.08		3.2A		26F	0.07E			20.7				
0.08 - 0.33		0.7A		13F	0.02E			15.8				
0.33 - 0.64		0.36A		13F	0.01E			6.4				
0.64 - 0.8		0.3A		15F	0.01E			7.4				

Depth	COLE	Gravimetric/Volumetric Water Contents						K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar	
m		g/g - m3/m3						mm/h	mm/h
0 - 0.08									
0.08 - 0.33									
0.33 - 0.64									
0.64 - 0.8									

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Laboratory Analyses Completed for this profile

15D1_CA	Exchangeable bases (Ca2+,Mg2+,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 (%)