Project Name: EDEN BURNING STUDY AREA

Project Code: 1000638 Site ID: EDB_SA43 Observation ID: 1

Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By: P. Ryan Locality:

Date Desc.: 03/09/87 Elevation: 260 metres Map Ref.: Sheet No.: 8823 1:25000 Rainfall: No Data Northing/Long.: 5876550 AMG zone: 55 Runoff: No Data 734080 Datum: AGD66 Well drained Easting/Lat.: Drainage:

<u>Geology</u>

ExposureType: Soil pit Conf. Sub. is Parent. Mat.: No Data Geol. Ref.: No Data Substrate Material: Sand

Land Form

Rel/Slope Class:No DataPattern Type:No DataMorph. Type:Mid-slopeRelief:0 metresElem. Type:HillslopeSlope Category:No DataSlope:10 %Aspect:180 degrees

Surface Soil Condition (dry): Loose

Erosion:

Soil Classification

Australian Soil Classification:Mapping Unit:N/AN/APrincipal Profile Form:Uc2.21

ASC Confidence: Great Soil Group: Yellow podzolic soil

Confidence level not specified

Site Disturbance: No effective disturbance other than grazing by hoofed animals

Vegetation:

Surface Coarse Fragments: 10-20%, fine gravelly, 2-6mm, subangular, Quartz

Profile Morphology

O1 0 - 0.04 m Organic Layer; ; Coarse sandy loam; Moist; Abrupt, Wavy change to -

A1 0.04 - 0.13 m Very dark greyish brown (10YR3/2-Moist); ; Coarse sandy clay loam; Weak grade of structure, <2

mm, Granular; Earthy fabric; Moist; Weak consistence; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Field pH 5.5 (Raupach); Common, fine (1-

2mm) roots; Common, medium (2-5mm) roots;

A2c 0.13 - 0.32 m Light yellowish brown (10YR6/4-Moist); Coarse sandy clay loam; Weak grade of structure, 5-10

mm, Polyhedral; Earthy fabric; Moist; Weak consistence; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, Siltstone, coarse fragments; 20-50%, coarse gravelly, 20-60mm,

subangular, dispersed, Siltstone, coarse fragments; Field pH 4.5 (Raupach); Many, fine (1-2mm) roots; Many, medium (2-5mm) roots; Many, coarse (>5mm) roots; Abrupt, Irregular change to -

A2c 0.32 - 0.54 m Light yellowish brown (10YR6/4-Moist); Coarse sandy clay loam; Weak grade of structure, 5-10

mm, Polyhedral; Earthy fabric; Moist; Weak consistence; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, Siltstone, coarse fragments; 20-50%, coarse gravelly, 20-60mm, subangular, dispersed, Siltstone, coarse fragments; Field pH 5 (Raupach); Many, fine (1-2mm) roots; Many, medium (2-5mm) roots; Many, coarse (>5mm) roots; Abrupt, Smooth change to -

B2 0.54 - 0.84 m Strong brown (7.5YR5/6-Moist); ; Massive grade of structure; Earthy fabric; Firm consistence; 20-

50%, fine gravelly, 2-6mm, subangular, dispersed, Sand, coarse fragments; 20-50%, coarse gravelly, 20-60mm, subangular, dispersed, Sand, coarse fragments; Field pH 4.5 (Raupach);

Few, fine (1-2mm) roots; Few, medium (2-5mm) roots;

Morphological Notes

Observation Notes

Ord. sediments? are the substrate. But there is alot of granite influence in the colluvium. B1-B2 all seem to be colluvial with seda influencing B2. Sand gets coarser with increasing depth.

Site Notes

DP23 - southern hillslope above river.

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Laboratory Test Results:

Editor y root recours.										
Depth	рН	1:5 EC		hangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECE	EC ESP
m		dS/m	9			Cmol (+)/kg				%
0.04 - 0.12	4.33l 5.26H		0.39F	1.34	0.27	0.11	0.53G			
0.34 - 0.42	4.04l 5.08H		0.74F	0.58	0.21	0.09	0.36G			
0.54 - 0.84	3.99I 5.1H		0.47F	0.86	0.23	0.1	1.02G			
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Tota K		Pa GV	rticle Siz	e Analysis S Silt Clay
m	%	%	mg/kg	%	%	%	Mg/m3		%	
0.04 - 0.12 0.34 - 0.42 0.54 - 0.84		5.07A 1.52A 1.1A		41F 25F 27F	<0.0 <0.0 <0.0)1E		26.5 30.2 40.5		
Depth	COLE	Sat.	Grav 0.05 Bar		olumetric \ 0.5 Bar	Nater Co 1 Bar		Bar	K sat	K unsat
m		-			/g - m3/m				mm/h	mm/h
0.04 - 0.12 0.34 - 0.42										

^{0.34 - 0.42} 0.54 - 0.84

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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

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 (%)