Project Name: EDEN BURNING STUDY AREA

Project Code: 1000638 Site ID: EDB_SA56 Observation ID: 1

Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By: P. Ryan Locality:

 Date Desc.:
 09/09/87
 Elevation:
 280 metres

 Map Ref.:
 Sheet No.: 8823
 1:25000
 Rainfall:
 No Data

 Northing/Long.:
 5877490 AMG zone: 55
 Runoff:
 No Data

Easting/Lat.: 733730 Datum: AGD66 Drainage: Imperfectly drained

Geology

 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:Lower-slopeRelief:0 metresElem. Type:FootslopeSlope Category:No DataSlope:20 %Aspect:0 degrees

Surface Soil Condition (dry): Loose

Erosion:

Soil Classification

ASC Confidence: Great Soil Group: Humic gley

Confidence level not specified

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

Vegetation:

Surface Coarse Fragments: No surface coarse fragments; 20-50%, , subangular, Quartz; 20-50%, , rounded, Quartz

Profile Morphology

O1 0 - 0.05 m Organic Layer; ; Coarse sandy loam; Moist; Gradual, Smooth change to -

A11 0.05 - 0.13 m ; Coarse sandy clay loam; Weak grade of structure, 5-10 mm, Granular; Earthy fabric; Moist; Very

weak consistence; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Field pH 4 (Raupach); Abundant, fine (1-2mm) roots; Many, medium (2-5mm) roots;

Many, coarse (>5mm) roots; Clear, Wavy change to -

A12 0.13 - 0.29 m Black (10YR2/1-Moist); Coarse sandy loam; Moderate grade of structure, 5-10 mm, Polyhedral;

Rough-ped fabric; Moist; Weak consistence; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Abundant, fine (1-2mm) roots; Many, medium (2-5mm)

roots; Many, coarse (>5mm) roots; Abrupt, Wavy change to -

A13 0.29 - 0.4 m Dark grey (10YR4/1-Moist); ; Clayey coarse sand; Weak grade of structure, 5-10 mm, Granular;

Earthy fabric; Moist; Weak consistence; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Field pH 5 (Raupach); Many, fine (1-2mm) roots; Many, medium (2-

5mm) roots; Many, coarse (>5mm) roots; Clear, Smooth change to -

A2c 0.4 - 0.48 m Light brownish grey (10YR6/2-Moist); ; Clayey coarse sand; Massive grade of structure; 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; Clear, Smooth change to -

B21 0.48 - 0.65 m Yellowish brown (10YR5/4-Moist); ; Coarse sandy clay loam; Massive grade of structure; Sandy

(grains prominent) fabric; Moist; Firm 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;

 $B22 \qquad 0.65 - 0.9 \ m \qquad Yellow \ (10YR7/6-Moist); \ , 20-50\% \ , \ Distinct; \ , \ 10-20\% \ , \ Faint; \ Massive \ grade \ of \ structure; \ Firm$

consistence; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments;

Field pH 5 (Raupach); Few, fine (1-2mm) roots;

Morphological Notes

O1 Thick humic A horizon. Moist Munsell given = 7.5YR 2/0

A11 Dominant ped size also 10-20mm.

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CSIRO Division of Soils (ACT)

A13 Bleached A2 horizon.

A2c Faintly illuvial.

B21 Mottled.

Observation Notes

Similar to YA54. Infilled root channel occur vertically in proile.

Site Notes

DP80 - footslope before drainage line

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Laboratory Test Results:

<u>=asorator</u>										
Depth	рН	1:5 EC		hangeable Vig	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Ga i	sa mg		Cmol (-				%
0.05 - 0.13	3.47I 4.28H		0.1F	2.3	0.46	0.22	0.78G			
0.13 - 0.29	3.71I 4.92H		0.92F	2.56	0.28	0.28	1.01G			
0.35 - 0.43	4.02l 5.3H		0.08F	0.68	0.11	0.06	0.34G			
0.48 - 0.65	4.08l 5.33H		0.07F	0.84	0.15	0.05	0.34G			
0.65 - 0.9	3.91I 5.3H		0.01F	2.05	0.23	0.11	0.53G			
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Tota K	al Bulk Density		ticle Size CS FS	Analysis Silt Clay
m	%	%	mg/kg	%	%	%	Mg/m3		%	
0.05 - 0.13		10.9A		70F	<0.0			30.8		
0.13 - 0.29		5.04A		50F	<0.0			21.9		
0.35 - 0.43		1.46A		14F	<0.0			29.9		
0.48 - 0.65		0.37A		14F	<0.0			32.3		
0.65 - 0.9		0.35A		6F	<0.0)1E		25		
Depth	COLE								K sat	K unsat
m		Sat.	0.05 Bar	0.1 Bar g/	0.5 Bar /g - m3/m	1 Bar 13	5 Bar 15	Bar	mm/h	mm/h

0.05 - 0.13 0.13 - 0.29 0.35 - 0.43 0.48 - 0.65 0.65 - 0.9

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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 (%)