Project Name: **EDEN BURNING STUDY AREA**
Project Code: **1000638** **Site ID:** **EDB_SA40** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (ACT)**

Site Information

Desc. By: P. Ryan
Date Desc.: 02/09/87
Map Ref.: Sheet No. : 8823 1:25000
Northing/Long.: 5877100 AMG zone: 55
Easting/Lat.: 734330 Datum: AGD66
Locality:
Elevation: 270 metres
Rainfall: No Data
Runoff: No Data
Drainage: Well drained

Geology

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

Land Form

Rel/Slope Class: No Data
Morph. Type: Mid-slope
Elem. Type: Hillslope
Slope: 15 %
Pattern Type: No Data
Relief: 0 metres
Slope Category: No Data
Aspect: 45 degrees

Surface Soil Condition (dry): Loose

Erosion:

Soil Classification

Australian Soil Classification:
N/A
ASC Confidence:
Confidence level not specified
Mapping Unit: N/A
Principal Profile Form: Gn2.21
Great Soil Group: Yellow earth

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

Vegetation:

Surface Coarse Fragments: 20-50%, medium gravelly, 6-20mm, subangular, Quartz; No surface coarse fragments

Profile Morphology

O1	0 - 0.04 m	Organic Layer; ; Loamy coarse sand; Moderately moist; Clear, Wavy change to -
A1	0.04 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); ; Coarse sandy loam; Weak grade of structure, 2-5 mm, Granular; Earthy fabric; Moist; Weak consistence; 20-50%, medium gravelly, 6-20mm, subangular, dispersed, Quartz, coarse fragments; Few (2 - 10 %), Ferruginous, Coarse (6 - 20 mm), Nodules, strong, segregations;Field pH 4.5 (Raupach); Many, very fine (0-1mm) roots; Many, fine (1-2mm) roots; Many, medium (2-5mm) roots; Many, coarse (>5mm) roots; Clear, Irregular change to -
A3	0.1 - 0.24 m	Brown (10YR4/3-Moist); ; Coarse sandy clay loam; Weak grade of structure, 2-5 mm, Granular; Earthy fabric; Moist; Weak consistence; 20-50%, medium gravelly, 6-20mm, subangular, dispersed, Quartz, coarse fragments; Common (10 - 20 %), Ferruginous, Coarse (6 - 20 mm), Nodules, strong, segregations;Field pH 5 (Raupach); Many, fine (1-2mm) roots; Many, medium (2-5mm) roots; Many, coarse (>5mm) roots; Gradual, Wavy change to -
B1	0.24 - 0.54 m	Light yellowish brown (10YR6/4-Moist); ; Medium sandy clay loam; Moderate grade of structure, 10-20 mm, Subangular blocky; Rough-ped fabric; Moist; Weak consistence; 20-50%, medium gravelly, 6-20mm, subangular, dispersed, Quartz, coarse fragments; Common (10 - 20 %), Ferruginous, Coarse (6 - 20 mm), Nodules, strong, segregations;Field pH 5 (Raupach); Common, medium (2-5mm) roots; Common, coarse (>5mm) roots; Gradual, Wavy change to -
B2	0.54 - 0.84 m	Brownish yellow (10YR6/6-Moist); ; Weak grade of structure, 10-20 mm, Polyhedral; Earthy fabric; Weak consistence; 20-50%, medium gravelly, 6-20mm, subangular, dispersed, Sand, coarse fragments; 20-50%, coarse gravelly, 20-60mm, subangular, dispersed, Sand, coarse fragments; Few, medium (2-5mm) roots;

Morphological Notes

O1	High faunal activity.	
A1	5-10mm also dominant ped size.	High faunal activity.
A3	High faunal activity.	

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B1	More sand & is more dispersive than as Cr horizon)	overlying horizon.	(Substrate given

Observation Notes

Lense of sand grains.

Site Notes

DP49 - NE slope off ridgeline.

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0.04 - 0.12	3.76I 4.74H		2.24F	1.04	0.25	0.13	0.56G			
0.34 - 0.42	3.99I 5.22H		0.67F	0.79	0.22	0.07	0.65G			
0.54 - 0.84	4.03I 5.37H		0.69F	2.56	0.3	0.15	0.33G			

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			%		
0.04 - 0.12		7A		33F	<0.01E			35.8	69.5F	20.5	8.5	1.5
0.34 - 0.42		0.9A		23F	<0.01E			38.7	54.8F	20.1	13.9	11.2
0.54 - 0.84		0.6A		19F	<0.01E			30.4	55.2F	9.3	14.7	20.8

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
0.04 - 0.12									
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 (%)
P10_HYD_C	Clay (%) - Hydrometer Method
P10_HYD_CS	Coarse Sand (%) - Hydrometer Method
P10_HYD_FS	Fine Sand (%) - Hydrometer Method
P10_HYD_Z	Silt (%) - Hydrometer Method