Project Name: **EDEN BURNING STUDY AREA**
Project Code: **1000638** **Site ID:** **EDB_SA60** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (ACT)**

Site Information

Desc. By:	P. Ryan	**Locality:**	
Date Desc.:	10/09/87	**Elevation:**	240 metres
Map Ref.:	Sheet No. : 8823 1:25000	**Rainfall:**	No Data
Northing/Long.:	5878000 AMG zone: 55	**Runoff:**	No Data
Easting/Lat.:	732340 Datum: AGD66	**Drainage:**	Imperfectly drained

Geology

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

Land Form

Rel/Slope Class:	No Data	**Pattern Type:**	No Data
Morph. Type:	Lower-slope	**Relief:**	0 metres
Elem. Type:	Footslope	**Slope Category:**	No Data
Slope:	8 %	**Aspect:**	0 degrees

Surface Soil Condition (dry): Soft

Erosion:

Soil Classification

Australian Soil Classification:
N/A
ASC Confidence:
Confidence level not specified

Mapping Unit: N/A
Principal Profile Form: Dy5.81
Great Soil Group: Humic gley

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

A1	0 - 0.15 m	Black (10YR2/1-Moist); ; Clay loam; Moderate grade of structure, 10-20 mm, Polyhedral; Rough-ped fabric; Moist; Firm consistence; 10-20%, 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;
A1	0.15 - 0.3 m	Black (10YR2/1-Moist); ; Clay loam; Moderate grade of structure, 10-20 mm, Polyhedral; Rough-ped fabric; Moist; Firm consistence; 10-20%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Field pH 4.5 (Raupach); Abundant, fine (1-2mm) roots; Many, medium (2-5mm) roots; Many, coarse (>5mm) roots; Abrupt, Wavy change to -
A2c	0.3 - 0.5 m	Light grey (2.5Y7/2-Moist); ; Coarse sandy clay loam; Massive grade of structure; Earthy fabric; Moist; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Field pH 5.5 (Raupach); Few, fine (1-2mm) roots; Gradual, Irregular change to -
B1	0.5 - 0.67 m	Light yellowish brown (10YR6/4-Moist); , 10-20% , Distinct; Coarse sandy clay; Massive grade of structure; Earthy fabric; Moist; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Field pH 5.5 (Raupach); Few, fine (1-2mm) roots; Gradual, Irregular change to -
B2	0.67 - 1.1 m	Brownish yellow (10YR6/8-Moist); , 20-50% , Distinct; Light medium clay; Massive grade of structure; Sandy (grains prominent) fabric; Moist; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Field pH 5 (Raupach); Common, fine (1-2mm) roots; Common, medium (2-5mm) roots;

Morphological Notes

A1	Casts common.	
A1	Casts common.	Fine sand fraction.
B2	Coarse sand fraction.	

Observation Notes

Thich humic A horizon over pallid A2 & B1 hor. B2 is being degraded, patchy yellow hue remain. Root channels with

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Site Notes

DP6 - edge of Melauca Swamp.

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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	3.13I 4H		0.64F	1.03	0.22	0.16	3.29G			
0.3 - 0.38	4.04I 4.66H		0.04F	0.18	0.09	0.04	0.92G			
0.5 - 0.67	4.2I 4.74H		0.02F	0.47	0.18	0.04	1.72G			
0.67 - 1.1	3.95I 4.76H		0.03F	0.92	0.22	0.07	2.25G			

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		5.67A		64.8F	<0.01E			6.8	52.5F	24.3	19.3	3.9
0.3 - 0.38		0.75A		12.4F	<0.01E			12.5	57.1F	17.4	16.2	9.3
0.5 - 0.67		0.86A		14.5F	<0.01E			35	58.3F	17	7.7	17
0.67 - 1.1		0.72A		8F	<0.01E			17.1	50.2F	17	12	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 - 0.08									
0.3 - 0.38									
0.5 - 0.67									
0.67 - 1.1									

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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