

Project Name: EDEN BURNING STUDY AREA
Project Code: 1000638 **Site ID:** EDB_SA51 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	P. Ryan	Locality:	
Date Desc.:	07/09/87	Elevation:	260 metres
Map Ref.:	Sheet No. : 8823 1:25000	Rainfall:	No Data
Northing/Long.:	5877130 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	733540 Datum: AGD66	Drainage:	Poorly 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:	Open depression (vale)	Relief:	0 metres
Elem. Type:	Drainage depression	Slope Category:	No Data
Slope:	15 %	Aspect:	315 degrees

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:	N/A	Mapping Unit:	N/A
ASC Confidence:	Confidence level not specified	Principal Profile Form:	Uc2.23
		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

A11	0 - 0.07 m	Very dark grey (10YR3/1-Moist); ; Coarse sandy clay loam; Weak grade of structure, 5-10 mm, Polyhedral; Earthy fabric; Moist; Weak consistence; 10-20%, 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 -
A12	0.07 - 0.22 m	Weak red (2.5YR5/2-Moist); ; Coarse sandy clay loam; Massive grade of structure; Earthy fabric; Moist; Weak consistence; 10-20%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Field pH 5.5 (Raupach); Few, medium (2-5mm) roots; Few, coarse (>5mm) roots; Gradual, Smooth change to -
A21c	0.22 - 0.4 m	Pale red (2.5YR6/2-Moist); ; Coarse sandy loam; Massive grade of structure; Sandy (grains prominent) fabric; Moist; Weak consistence; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Field pH 6 (Raupach); Few, fine (1-2mm) roots; Few, medium (2-5mm) roots; Gradual, Wavy change to -
A22	0.4 - 0.6 m	Pale red (2.5YR7/2-Moist); , 10-20% , Distinct; Coarse sandy loam; Massive grade of structure; Sandy (grains prominent) fabric; Wet; Weak consistence; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Field pH 5.5 (Raupach); Few, fine (1-2mm) roots; Clear, Irregular change to -
B2	0.6 - 0.95 m	Pale red (2.5YR7/2-Moist); , 20-50% , Distinct; Clayey coarse sand; Massive grade of structure; Earthy fabric; Moist; Firm consistence; 20-50%, fine gravelly, 2-6mm, subangular, undisturbed, Quartz, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Field pH 5 (Raupach); Few, medium (2-5mm) roots;

Morphological Notes

Observation Notes

Heath-Meleu. Scrub drainage flat. Collu-vial sand over in situ B horizon. Perch-ed water-table over B2 horizon. Rust coating adjacent to root in A horizons. A2 horizons dispersive.

Site Notes

DP64 - suspended drainage line

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Laboratory Test Results:

Depth m	pH	1:5 EC dS/m	Exchangeable Cations			Na Cmol (+)/kg	Exchangeable Acidity	CEC	ECEC	ESP %
			Ca	Mg	K					
0 - 0.08	3.63I		0.69F	0.38	0.14	0.09	0.58G			
	4.64H									
0.3 - 0.38	3.84I		0.07F	0.37	0.08	0.04	0.28G			
	5.07H									
0.4 - 0.6	3.9I		0.05F	0.46	0.1	0.03	0.29G			
	5.17H									
0.6 - 0.95	3.83I		0.03F	0.82	0.08	0.05	0.47G			
	5.03H									

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
m	%	C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
		%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.08		3.47A		30F	<0.01E			8				
0.3 - 0.38		0.39A		9F	<0.01E			17.1				
0.4 - 0.6		0.45A		10F	<0.01E			28.8				
0.6 - 0.95		0.24A		7F	<0.01E			22.2				

[illegible]

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Laboratory Analyses Completed for this profile

15D1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,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 (%)