

Project Name: EDEN BURNING STUDY AREA
Project Code: 1000638 **Site ID:** EDB_SA50 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	P. Ryan	Locality:	
Date Desc.:	07/09/87	Elevation:	280 metres
Map Ref.:	Sheet No. : 8823 1:25000	Rainfall:	No Data
Northing/Long.:	5877000 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	733550 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:	Upper-slope	Relief:	0 metres
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	20 %	Aspect:	45 degrees

Surface Soil Condition (dry): Loose

Erosion: Stable, Minor (sheet)

Soil Classification

Australian Soil Classification:	N/A	Mapping Unit:	N/A
ASC Confidence:	Confidence level not specified	Principal Profile Form:	Dy5.41
		Great Soil Group:	Yellow podzolic soil

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

Vegetation:

Surface Coarse Fragments: 20-50%, fine gravelly, 2-6mm, subangular, Quartz

Profile Morphology

A11	0 - 0.03 m	Very dark grey (10YR3/1-Moist); ; Loamy sand; Single grain grade of structure; Earthy fabric; Moderately moist; Very weak consistence; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Field pH 4 (Raupach); Few, fine (1-2mm) roots; Abrupt, Smooth change to -
A12	0.03 - 0.17 m	Very pale brown (10YR7/3-Moist); ; Medium sandy clay loam; Weak grade of structure, 10-20 mm, Polyhedral; Earthy fabric; Moderately moist; Weak consistence; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Field pH 5.5 (Raupach); Common, medium (2-5mm) roots; Common, coarse (>5mm) roots; Clear, Wavy change to -
2A1	0.17 - 0.3 m	Greyish brown (10YR5/2-Moist); ; Medium sandy clay loam; Weak grade of structure, 10-20 mm, Polyhedral; Earthy fabric; Moderately moist; Firm consistence; 50-90%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; 50-90%, coarse gravelly, 20-60mm, subangular, dispersed, Quartz, coarse fragments; Field pH 5.5 (Raupach); Few, medium (2-5mm) roots; Few, coarse (>5mm) roots; Clear, Irregular change to -
2A2c	0.3 - 0.5 m	Very pale brown (10YR7/4-Moist); ; Clayey sand; Massive grade of structure; Sandy (grains prominent) fabric; Moderately moist; Very firm consistence; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; 20-50%, coarse gravelly, 20-60mm, subangular, dispersed, Quartz, coarse fragments; Field pH 6 (Raupach); Few, coarse (>5mm) roots; Clear, Wavy change to -
2B1	0.5 - 0.6 m	Yellow (10YR7/6-Moist); , 10-20% , Faint; Medium sandy clay loam; Massive grade of structure; Sandy (grains prominent) fabric; Moist; Very firm consistence; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Field pH 5.5 (Raupach); Few, coarse (>5mm) roots; Abrupt, Wavy change to -
2B2t	0.6 - 0.85 m	Yellowish brown (10YR5/8-Moist); , 20-50% , Distinct; Medium sandy clay; Smooth-ped fabric; Wet; 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 4.5 (Raupach); Common, medium (2-5mm) roots; Common, coarse (>5mm) roots;

Morphological Notes

Observation Notes

Site process also depositional. Current surface condition also water repellent. Evidence for several colluvial layers above a mottled, clayey B horizon. Lenses of v. coarse sand. CONT. IN L6 NOTES...

Site Notes

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DP61 - upper slope

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg	Acidity		%
0 - 0.08	3.91I 4.82H		1.03F	0.68	0.15	0.05	0.3G		
0.17 - 0.3	3.92I 5.02H		0.16F	0.37	0.12	0.06	0.42G		
0.3 - 0.38	4.1I 5.14H		0.11F	0.11	0.14	0.04	0.23G		
0.5 - 0.6	3.87I 5.01H		0.07F	1.33	0.17	0.08	0.48G		
0.6 - 0.85	3.64I 4.81H		2.44F	1.95	0.38	0.12	1.74G		

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		2.69A		25F	<0.01E			17				
0.17 - 0.3		1.37A		25F	<0.01E			25.3				
0.3 - 0.38		0.65A		22F	<0.01E			30.4				
0.5 - 0.6		0.49A		21F	<0.01E			24.3				
0.6 - 0.85		0.63A		22F	<0.01E			20.7				

[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 (%)