

Project Name: EDEN BURNING STUDY AREA
Project Code: 1000638 **Site ID:** EDB_SA38 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	P. Ryan	Locality:	
Date Desc.:	02/09/87	Elevation:	290 metres
Map Ref.:	Sheet No. : 8823 1:25000	Rainfall:	No Data
Northing/Long.:	5877730 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	734660 Datum: AGD66	Drainage:	Moderately well 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 Data	Pattern Type:	No Data
Morph. Type:	Mid-slope	Relief:	0 metres
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	8 %	Aspect:	45 degrees

Surface Soil Condition (dry): Loose

Erosion:

Soil Classification

Australian Soil Classification:	N/A	Mapping Unit:	N/A
ASC Confidence:	Confidence level not specified	Principal Profile Form:	Gn2.61
		Great Soil Group:	Yellow earth

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

O1	0 - 0.01 m	Organic Layer; ; Coarse sandy loam; Moderately moist; Gradual, Irregular change to -
AB	0.01 - 0.11 m	Yellowish brown (10YR5/4-Moist); ; Coarse sandy clay loam; Weak grade of structure, <2 mm, Granular; Earthy fabric; Very weak consistence; 10-20%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Few (2 - 10 %), Ferruginous, Coarse (6 - 20 mm), Nodules, strong, segregations;Field pH 5.5 (Raupach); Many, fine (1-2mm) roots; Many, medium (2-5mm) roots; Many, coarse (>5mm) roots;
B1	0.11 - 0.41 m	Light yellowish brown (10YR6/4-Moist); ; Coarse sandy loam; Weak grade of structure, 10-20 mm, Polyhedral; Earthy fabric; Weak consistence; 10-20%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Common (10 - 20 %), Ferruginous, Coarse (6 - 20 mm), Nodules, strong, segregations;Field pH 5.5 (Raupach); Many, medium (2-5mm) roots; Many, coarse (>5mm) roots; Gradual, Wavy change to -
B2	0.41 - 0.76 m	Brownish yellow (10YR6/6-Moist); ; Medium sandy clay; Weak grade of structure, 10-20 mm, Polyhedral; Earthy fabric; Firm consistence; 10-20%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Common (10 - 20 %), Ferruginous, Coarse (6 - 20 mm), Nodules, strong, segregations;Field pH 5.5 (Raupach); Common, coarse (>5mm) roots;
B3	0.76 - 1.01 m	Brownish yellow (10YR6/6-Moist); , 10-20% , Distinct; , 10-20% , Faint; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Firm consistence; 10-20%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Few cutans, <10% of ped faces or walls coated, distinct; Field pH 4.5 (Raupach); Few, fine (1-2mm) roots;

Morphological Notes

B1	More sandy & dispersive.
B2	CONT... COARSE TEXTURE INCREASES ABOVE B3. UNSURE ABOUT GSG & FACTUAL KEY. CURRENT SURFACE CONDITION ALSO WATER REPELLENT.

Observation Notes

Minimal profile development for 0-80cm then mottled, clayey B horizon is found. Large amount of fungal hyphae in surface soil - hydrophobic. Round nodules in profile to 75cm (colluvium). CONT. IN L4

Site Notes

DP86 - lower part of ridgeline.

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Laboratory Test Results:

Depth m	pH	1:5 EC dS/m	Ca	Exchangeable Cations			Exchangeable Acidity	CEC	ECEC	ESP %
				Mg	K	Na Cmol (+)/kg				
0.01 - 0.09	4.04I 5.09H		0.21F	0.51	0.16	0.04	0.82G			
0.31 - 0.39	3.83I 4.88H		1.87F	0.76	0.2	0.08	0.91G			
0.51 - 0.71	3.91I 5.29H		0.11F	1.46	0.18	0.08	0.73G			
0.91 - 1.01	3.8I 5.26H		0.12F	4.51	0.3	0.23	1.51G			

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0.01 - 0.09		1.23A		21F	<0.01E			44.5				
0.31 - 0.39		3.8A		34F	<0.01E			39.3				
0.51 - 0.71		0.51A		22F	<0.01E			39.5				
0.91 - 1.01		0.61A		26F	<0.01E			30.9				

[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 (%)