

**Project Name:** EDEN BURNING STUDY AREA  
**Project Code:** 1000638 **Site ID:** EDB\_SA55 **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (ACT)

#### Site Information

<b>Desc. By:</b>	P. Ryan	<b>Locality:</b>	
<b>Date Desc.:</b>	09/09/87	<b>Elevation:</b>	310 metres
<b>Map Ref.:</b>	Sheet No. : 8823 1:25000	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	5878480 AMG zone: 55	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	734790 Datum: AGD66	<b>Drainage:</b>	Imperfectly drained

#### Geology

<b>ExposureType:</b>	Soil pit	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	Dgwa	<b>Substrate Material:</b>	No Data

#### Land Form

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	No Data
<b>Morph. Type:</b>	Lower-slope	<b>Relief:</b>	0 metres
<b>Elem. Type:</b>	Footslope	<b>Slope Category:</b>	No Data
<b>Slope:</b>	17 %	<b>Aspect:</b>	90 degrees

**Surface Soil Condition (dry):** Loose

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	N/A	<b>Mapping Unit:</b>	N/A
<b>ASC Confidence:</b>	Confidence level not specified	<b>Principal Profile Form:</b>	Uc2.21
		<b>Great Soil Group:</b>	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

O1	0 - 0.03 m	Organic Layer; ; Coarse sandy clay loam (Sapric); Moist; Abrupt, Wavy change to -
A1	0.03 - 0.25 m	Very dark grey (10YR3/1-Moist); ; Coarse sandy loam; Weak grade of structure, 2-5 mm, Granular; Earthy fabric; Moist; Firm consistence; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments; 20-50%, coarse gravelly, 20-60mm, subangular, dispersed, coarse fragments; Field pH 4.5 (Raupach); Many, coarse (>5mm) roots; Many, medium (2-5mm) roots; Many, fine (1-2mm) roots; Clear, Smooth change to -
A2c	0.25 - 0.34 m	Light brownish grey (10YR6/2-Moist); ; Coarse sandy loam; Weak grade of structure, 10-20 mm, Polyhedral; Earthy fabric; Moist; Weak consistence; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments; 20-50%, coarse gravelly, 20-60mm, subangular, dispersed, coarse fragments; Field pH 5.5 (Raupach); Common, fine (1-2mm) roots; Common, very fine (0-1mm) roots; Clear, Wavy change to -
B21	0.34 - 0.5 m	Light yellowish brown (10YR6/4-Moist); ; Coarse sandy loam; Weak grade of structure, 10-20 mm, Polyhedral; Earthy fabric; Moist; Weak consistence; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Field pH 5.5 (Raupach); Common, fine (1-2mm) roots; Common, very fine (0-1mm) roots; Gradual, Irregular change to -
B22	0.5 - 0.68 m	Yellow (10YR7/6-Moist); ; Coarse sandy clay; Weak grade of structure, 10-20 mm, Polyhedral; Earthy fabric; Moist; Weak consistence; 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; Few, very fine (0-1mm) roots; Gradual, Wavy change to -
B31	0.68 - 0.88 m	Yellow (10YR7/8-Moist); ; Coarse sandy clay; Massive grade of structure; Sandy (grains prominent) fabric; Moist; Firm consistence; 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); Few, fine (1-2mm) roots; Few, very fine (0-1mm) roots;
B32	0.88 - 0.98 m	Yellow (10YR7/8-Moist); , 20-50% , Prominent; , 10-20% , Distinct; Massive grade of structure; Sandy (grains prominent) fabric; Firm consistence; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Field pH 4.5 (Raupach);

#### Morphological Notes

#### Observation Notes

Thick A horizon over pale yellow B horizon.

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DP45 -lower slope of open drainageline

## Site Notes

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**Laboratory Test Results:**

Depth m	pH	1:5 EC dS/m	Ca	Exchangeable Mg	Cations K	Na Cmol (+)/kg	Exchangeable Acidity	CEC	ECEC	ESP %
0.03 - 0.11	3.28I 4.21H		1.9F	1.63	0.28	0.16	0.6G			
0.25 - 0.34	3.78I 5.07H		0.13F	0.51	0.08	0.04	0.36G			
0.33 - 0.41	3.86I 5.05H		0.1F	0.46	0.09	0.03	0.45G			
0.5 - 0.68	4.03I 5.26H		0.04F	0.51	0.1	0.03	0.52G			
0.88 - 0.98	3.72I 5.04H		0.13F	2.8	0.2	0.18	1.97G			

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size	Analysis
m	%	%	mg/kg	%	%	%	Mg/m3	GV CS FS %	Silt Clay
0.03 - 0.11		9.31A		38F	<0.01E			19	
0.25 - 0.34		1.18A		14F	<0.01E			23.1	
0.33 - 0.41		0.33A		15F	<0.01E			28.2	
0.5 - 0.68		0.69A		15F	<0.01E			23.5	
0.88 - 0.98		0.42A		12F	<0.01E			21.2	

[illegible]

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**Laboratory Analyses Completed for this profile**

15D1_CA	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 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 (%)