

**Project Name:** EDEN BURNING STUDY AREA  
**Project Code:** 1000638 **Site ID:** EDB\_SA52 **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> 08/09/87	<b>Elevation:</b> 210 metres
<b>Map Ref.:</b> Sheet No. : 8823 1:25000	<b>Rainfall:</b> No Data
<b>Northing/Long.:</b> 5876130 AMG zone: 55	<b>Runoff:</b> No Data
<b>Easting/Lat.:</b> 734810 Datum: AGD66	<b>Drainage:</b> Well drained

#### Geology

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

#### 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> 9 %	<b>Aspect:</b> 180 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> N/A
	<b>Great Soil Group:</b> Podzol

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

#### Vegetation:

**Surface Coarse Fragments:** No surface coarse fragments; 20-50%, , subangular, Quartz; 20-50%, , rounded, Quartz

#### Profile Morphology

O1	0 - 0.02 m	Organic Layer; ; Medium sandy clay loam; Moist; Clear, Wavy change to -
A1	0.02 - 0.28 m	Very dark grey (10YR3/1-Moist); ; Sandy loam; Moderate grade of structure, 5-10 mm, Polyhedral; Rough-ped fabric; Moist; Firm consistence; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; 20-50%, medium gravelly, 6-20mm, subangular, dispersed, Quartz, coarse fragments; Field pH 4 (Raupach); Many, fine (1-2mm) roots; Many, medium (2-5mm) roots; Many, coarse (>5mm) roots; Abrupt, Wavy change to -
A2c	0.28 - 0.37 m	Light grey (10YR7/2-Moist); ; Medium sandy clay 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); Few, very fine (0-1mm) roots; Few, coarse (>5mm) roots; Gradual, Wavy change to -
B1h	0.37 - 0.48 m	Brownish yellow (10YR6/6-Moist); , 10-20% , Distinct; , 10-20% , Faint; Medium sandy clay; Moderate grade of structure, 5-10 mm, Polyhedral; Rough-ped fabric; Moist; Firm consistence; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Few cutans, <10% of ped faces or walls coated, distinct; Common (10 - 20 %), Ferruginous, Coarse (6 - 20 mm), Soft segregations, weak, segregations; Common (10 - 20 %), Ferruginous, Coarse (6 - 20 mm), Nodules, weak, segregations; , Organic (humified), , ; Field pH 5.5 (Raupach); Common, fine (1-2mm) roots; Common, medium (2-5mm) roots; Common, coarse (>5mm) roots; Clear, Smooth change to -
B2	0.48 - 0.82 m	Yellowish brown (10YR5/8-Moist); , 10-20% , Distinct; Moderate grade of structure, 5-10 mm, Polyhedral; Smooth-ped fabric; Firm consistence; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Common (10 - 20 %), Ferruginous, Coarse (6 - 20 mm), Nodules, weak, segregations; Field pH 5 (Raupach); Common, fine (1-2mm) roots; Common, medium (2-5mm) roots;

#### Morphological Notes

O1	Dominant ped size also 10-20mm. faunal mixing.	Casts common.	Varigated
A2c	dominant ped size also 10-20mm.		
B1h	Dominant ped size also 10-20mm.		

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Slight development of podzol horizon.

**Site Notes**

DP11 - open drainage depression

**Observation 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 %
0.02 - 0.1	3.12I 4.04H		0.77F	0.44	0.15	0.04	0.74G			
0.28 - 0.37	3.69I 4.56H		0.17F	0.22	0.13	0.03	0.71G			
0.32 - 0.4	3.9I 4.73H		0.16F	0.28	0.17	0.03	0.99G			
0.37 - 0.48	3.98I 4.8H		0.13F	0.29	0.21	0.04	1.12G			
0.48 - 0.82	3.89I 4.9H		0.31F	1.81	0.55	0.16	2.07G			

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
0.02 - 0.1		5.66A		32F	<0.01E			19.9	
0.28 - 0.37		0.77A		20F	<0.01E			30	
0.32 - 0.4		0.94A		15F	<0.01E			32	
0.37 - 0.48		0.97A		16F	<0.01E			34.1	
0.48 - 0.82		0.95A		28F	<0.01E			16.4	

[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 (%)