

**Project Name:** EDEN BURNING STUDY AREA  
**Project Code:** 1000638 **Site ID:** EDB\_SA46 **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>	04/09/87	<b>Elevation:</b>	280 metres
<b>Map Ref.:</b>	Sheet No. : 8823 1:25000	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	5877690 AMG zone: 55	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	733020 Datum: AGD66	<b>Drainage:</b>	Moderately well 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>	Sand

#### Land Form

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	No Data
<b>Morph. Type:</b>	Crest	<b>Relief:</b>	0 metres
<b>Elem. Type:</b>	Hillcrest	<b>Slope Category:</b>	No Data
<b>Slope:</b>	7 %	<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>	Gn3.84
		<b>Great Soil Group:</b>	Yellow podzolic soil

**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 - 0.02 m	Organic Layer; ; Coarse sandy clay loam; Moderately moist; Clear, Smooth change to -
A1	0.02 - 0.12 m	Greyish brown (10YR5/2-Moist); ; Coarse sandy clay loam; Weak grade of structure, <2 mm, Granular; Earthy fabric; Moist; Weak consistence; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Field pH 4.5 (Raupach); Many, very fine (0-1mm) roots; Many, fine (1-2mm) roots; Many, medium (2-5mm) roots; Many, coarse (>5mm) roots; Clear, Wavy change to -
A2c	0.12 - 0.22 m	Pale brown (10YR6/3-Moist); ; Coarse sandy clay; Weak grade of structure, 10-20 mm, Polyhedral; Earthy fabric; Moist; Firm consistence; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Field pH 4.5 (Raupach); Common, medium (2-5mm) roots; Common, coarse (>5mm) roots; Clear, Wavy change to -
B1	0.22 - 0.38 m	Light yellowish brown (10YR6/4-Moist); ; Clay loam; Weak grade of structure, 5-10 mm, Polyhedral; Earthy fabric; Moist; Firm consistence; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Field pH 5.5 (Raupach); Common, fine (1-2mm) roots; Common, coarse (>5mm) roots; Clear, Smooth change to -
B2	0.38 - 0.62 m	Strong brown (7.5YR5/8-Moist); ; Moderate grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Firm consistence; 20-50%, fine gravelly, 2-6mm, subangular, undisturbed, Sand, coarse fragments; 20-50%, coarse gravelly, 20-60mm, subangular, undisturbed, Sand, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 5 (Raupach); Few, fine (1-2mm) roots;

#### Morphological Notes

B1 B2 horizon is residual.

#### Observation Notes

Site process Also transportational. Shallow soil.

#### Site Notes

DP76 - broad ridgecrest

Project Name: EDEN BURNING STUDY AREA  
Project Code: 1000638 Site ID: EDB\_SA46 Observation ID: 1  
Agency Name: CSIRO Division of Soils (ACT)

**Laboratory Test Results:**

Depth  m	pH	1:5 EC  dS/m	Exchangeable Cations				CEC	ECEC	ESP  %
			Ca	Mg	K	Na Cmol (+)/kg			
0.02 - 0.1	3.44I 4.4H		1.29F	0.57	0.2	0.08	0.87G		
0.12 - 0.22	3.69I 4.56H		0.35F	0.42	0.19	0.14	0.94G		
0.32 - 0.4	3.93I 5.12H		0.26F	0.72	0.35	0.1	0.75G		
0.38 - 0.62	4.02I 5.24H		0.19F	2.87	0.64	0.21	1.41G		

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			%		
0.02 - 0.1		5.47A		31F	<0.01E			14.5				
0.12 - 0.22		1.18A		21F	<0.01E			34.4				
0.32 - 0.4		0.9A		19F	<0.01E			29.6				
0.38 - 0.62		0.84A		25F	<0.01E			15.8				

[illegible]

**Project Name:** EDEN BURNING STUDY AREA  
**Project Code:** 1000638      **Site ID:** EDB\_SA46      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (ACT)

**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 (%)