

Project Name: EDEN BURNING STUDY AREA
Project Code: 1000638 **Site ID:** EDB_SA45 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By: P. Ryan	Locality:
Date Desc.: 04/09/87	Elevation: 210 metres
Map Ref.: Sheet No. : 8823 1:25000	Rainfall: No Data
Northing/Long.: 5876750 AMG zone: 55	Runoff: No Data
Easting/Lat.: 734640 Datum: AGD66	Drainage: Moderately well 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: Lower-slope	Relief: 0 metres
Elem. Type: Hillslope	Slope Category: No Data
Slope: 16 %	Aspect: 90 degrees

Surface Soil Condition (dry): Soft

Erosion:

Soil Classification

Australian Soil Classification: N/A	Mapping Unit: N/A
ASC Confidence: Confidence level not specified	Principal Profile Form: Uc2.22
	Great Soil Group: Podzol

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 - 0.05 m	Organic Layer; ; Coarse sandy clay loam; Moist; Clear, Smooth change to -
A11	0.05 - 0.18 m	Black (10YR2/1-Moist); ; Coarse sandy clay loam; Weak grade of structure, <2 mm, Granular; Earthy fabric; Moist; Weak consistence; Field pH 4 (Raupach); Many, fine (1-2mm) roots; Many, medium (2-5mm) roots; Many, coarse (>5mm) roots; Abrupt, Smooth change to -
A12	0.18 - 0.25 m	Very dark greyish brown (10YR3/2-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, Sand, coarse fragments; Field pH 4 (Raupach); Many, fine (1-2mm) roots; Many, medium (2-5mm) roots; Many, coarse (>5mm) roots; Sharp, Wavy change to -
A2c	0.25 - 0.35 m	Light brownish grey (10YR6/2-Moist); ; Coarse sandy clay loam; Weak grade of structure, 5-10 mm, Polyhedral; Earthy fabric; Moist; Weak consistence; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, Sand, coarse fragments; Field pH 4 (Raupach); Common, fine (1-2mm) roots; Common, medium (2-5mm) roots; Clear, Irregular change to -
B2	0.35 - 0.49 m	Light yellowish brown (10YR6/4-Moist); ; 10-20% , Faint; Weak grade of structure, 10-20 mm, Polyhedral; Earthy fabric; Firm consistence; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, Sand, coarse fragments; 20-50%, coarse gravelly, 20-60mm, subangular, dispersed, Sand, coarse fragments; Few cutans, <10% of ped faces or walls coated, distinct; Few (2 - 10 %), Ferruginous, Coarse (6 - 20 mm), Soft segregations, weak, segregations; Few (2 - 10 %), Ferruginous, Coarse (6 - 20 mm), Nodules, weak, segregations; Organic (humified), , ; Field pH 4.5 (Raupach); Common, fine (1-2mm) roots; Common, medium (2-5mm) roots;
Cr	0.49 - 1.15 m	; 50-90%, cobbly, 60-200mm, subrounded, reoriented, Sand, coarse fragments; 50-90%, stony, 200-600mm, subrounded, reoriented, Sand, coarse fragments; 50-90%, cobbly, 60-200mm, subangular, reoriented, Sand, coarse fragments;

Morphological Notes

A2c	Ped coating = organic nodules.	Some small amount of illuviated OM in B2plus Fe-
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Observation Notes

GSG = P? Large boulders of partially weathered granite in lower profile. Thick sapro- lite.

Site Notes

DP54 - above crk line

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol	(+)/kg			%
0.05 - 0.13	3.19I 4.01H		0.03F	1.58	0.11	0.04	0.84G			
0.25 - 0.35	3.46I 4.47H		0.07F	0.48	0.26	0.06	1.31G			
0.35 - 0.43	3.65I 4.67H		0.04F	0.6	0.14	0.05	1.22G			

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
0.05 - 0.13		8.36A		42F	<0.01E			29.7			
0.25 - 0.35		0.77A		10F	<0.01E			28.2			
0.35 - 0.43		1.26A		12F	<0.01E			26.5			

[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 (%)