

Project Name: EDEN BURNING STUDY AREA
Project Code: 1000638 **Site ID:** EDB_SA41 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	P. Ryan	Locality:	
Date Desc.:	02/09/87	Elevation:	270 metres
Map Ref.:	Sheet No. : 8823 1:25000	Rainfall:	No Data
Northing/Long.:	5876510 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	733270 Datum: AGD66	Drainage:	Rapidly drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	Probable
Geol. Ref.:	Dgwa	Substrate Material:	No Data

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:	18 %	Aspect:	270 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:	Uc5.22
		Great Soil Group:	Lithosol

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

Vegetation:

Surface Coarse Fragments: 20-50%, fine gravelly, 2-6mm, subangular, ; 20-50%, coarse gravelly, 20-60mm, subangular, ; No surface coarse

Profile Morphology

A1	0 - 0.08 m	Yellowish brown (10YR5/4-Moist); ; Coarse sandy clay loam; Weak grade of structure, 2-5 mm, Granular; Earthy fabric; Moderately 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, medium (2-5mm) roots; Clear, Wavy change to -
B2	0.08 - 0.4 m	Yellowish brown (10YR5/6-Moist); ; Coarse sandy loam; Weak grade of structure, 2-5 mm, Granular; 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); Many, medium (2-5mm) roots; Many, coarse (>5mm) roots; Abrupt, Wavy change to -
Cr	0.4 - 0.65 m	; 50-90%, stony, 200-600mm, subangular, undisturbed, coarse fragments;

Morphological Notes

B2	Increasing coarse texture.	Very coarse sand & dispersive.
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Observation Notes

Small pieces of adamellite maybe precursor for nodules.

Site Notes

DP29

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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 - 0.08	3.98I		1.37F	0.61	0.17	0.09	0.57G			
0.3 - 0.38	4.85H 4.13I 5.26H		0.4F	1.24	0.27	0.07	0.24G			

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 - 0.08		4.02A		34F	<0.01E			30.6	66.8F	18.1	13.1	1.9
0.3 - 0.38		0.85A		30F	<0.01E			45.3	56.4F	20.8	12.4	10.4

Depth	COLE	Sat.	Gravimetric/Volumetric Water Contents	K sat	K unsat
m			0.05 Bar 0.1 Bar 0.5 Bar 1 Bar 5 Bar 15 Bar	mm/h	mm/h
			g/g - m3/m3		
0 - 0.08					
0.3 - 0.38					

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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 (%)
P10_HYD_C	Clay (%) - Hydrometer Method
P10_HYD_CS	Coarse Sand (%) - Hydrometer Method
P10_HYD_FS	Fine Sand (%) - Hydrometer Method
P10_HYD_Z	Silt (%) - Hydrometer Method