

Project Name: EDEN BURNING STUDY AREA
Project Code: 1000638 **Site ID:** EDB_SA59 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By: P. Ryan	Locality:
Date Desc.: 01/09/87	Elevation: 280 metres
Map Ref.: Sheet No. : 8823 1:25000	Rainfall: No Data
Northing/Long.: 5877940 AMG zone: 55	Runoff: No Data
Easting/Lat.: 735420 Datum: AGD66	Drainage: Imperfectly drained

Geology

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

Land Form

Rel/Slope Class: No Data	Pattern Type: No Data
Morph. Type: Open depression (vale)	Relief: 0 metres
Elem. Type: Drainage depression	Slope Category: No Data
Slope: 5 %	Aspect: 270 degrees

Surface Soil Condition (dry): Firm

Erosion: Partial, Minor (gully)

Soil Classification

Australian Soil Classification: N/A	Mapping Unit: N/A
ASC Confidence: Confidence level not specified	Principal Profile Form: Gn1.84
	Great Soil Group: Humic gley

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

Vegetation:

Surface Coarse Fragments: 50-90%, fine gravelly, 2-6mm, subangular, Quartz; No surface coarse fragments

Profile Morphology

A11	0 - 0.15 m	; Coarse sandy clay loam; Moderate grade of structure, 10-20 mm, Polyhedral; Rough-ped fabric; Moist; Weak consistence; 50-90%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; 50-90%, medium gravelly, 6-20mm, subangular, dispersed, Quartz, coarse fragments; 50-90%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; Field pH 5.5 (Raupach); Many, coarse (>5mm) roots; Many, medium (2-5mm) roots; Many, fine (1-2mm) roots; Many, very fine (0-1mm) roots; Gradual, Wavy change to -
A12	0.15 - 0.4 m	Very dark grey (10YR3/1-Moist); ; Clay loam; Moderate grade of structure, 10-20 mm, Polyhedral; Rough-ped fabric; Moist; Firm consistence; 50-90%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; 50-90%, medium gravelly, 6-20mm, subangular, dispersed, Quartz, coarse fragments; 50-90%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; Field pH 5.5 (Raupach); Common, very fine (0-1mm) roots; Common, fine (1-2mm) roots; Gradual, Irregular change to -
A13	0.4 - 0.53 m	Dark greyish brown (10YR4/2-Moist); ; Coarse sandy clay loam; Moderate grade of structure, 20-50 mm, Subangular blocky; Rough-ped fabric; Moist; Firm consistence; 50-90%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; 50-90%, medium gravelly, 6-20mm, subangular, dispersed, Quartz, coarse fragments; 50-90%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Field pH 5.5 (Raupach); Common, very fine (0-1mm) roots; Common, fine (1-2mm) roots; Clear, Irregular change to -
A2	0.53 - 0.72 m	Greyish brown (10YR5/2-Moist); ; Coarse sandy clay loam; Weak grade of structure, 20-50 mm, Subangular blocky; Earthy fabric; Moist; Firm consistence; 50-90%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; 50-90%, medium gravelly, 6-20mm, subangular, dispersed, Quartz, coarse fragments; 50-90%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Field pH 5.5 (Raupach); Common, very fine (0-1mm) roots; Common, fine (1-2mm) roots; Gradual, Wavy change to -
B2	0.72 - 1.05 m	Light yellowish brown (10YR6/4-Moist); , 20-50% , Distinct; , 10-20% , Faint; Coarse sandy clay loam; Massive grade of structure; Sandy (grains prominent) fabric; Moist; Very firm consistence; 50-90%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; 50-90%, medium gravelly, 6-20mm, subangular, dispersed, Quartz, coarse fragments; 50-90%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; Field pH 5 (Raupach); Few, fine (1-2mm) roots; Clear, Wavy change to -

Morphological Notes

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A11 Moist Munsell = 2.5YR 2/0.

A12 Coarse sand fraction.

Observation Notes

Flat bottom of drainage line. Thick A horizon (70cm) over pallid yellow B horizon. A horizon colours are variegated. Charcoal occurs in bands, one at 38cm.

Site Notes

DP107 - dry drainage line - convex

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na	Acidity		%
							(+)/kg		
0 - 0.08	4.1I		1.3F	3.23	0.41	0.15	0.74G		
	5.25H								
0.3 - 0.38	3.88I		0.61F	2.21	0.26	0.21	1.04G		
	5.03H								
0.53 - 0.72	3.87I		0.28F	1.17	0.16	0.13	0.73G		
	5.23H								
0.72 - 1.05	3.73I		0.18F	1.15	0.15	0.1	0.58G		
	5.41H								

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
m	%	C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
		%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.08		6.21A		69F	<0.01E			27.7				
0.3 - 0.38		2.58A		37.6F	<0.01E			21.9				
0.53 - 0.72		0.17A		19.5F	<0.01E			29.4				
0.72 - 1.05		0.78A		8.7F	<0.01E			12.7				

[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 (%)