

Project Name: EDEN BURNING STUDY AREA
Project Code: 1000638 **Site ID:** EDB_SA29 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By: P. Ryan	Locality:
Date Desc.: 21/07/87	Elevation: 280 metres
Map Ref.: Sheet No. : 8823 1:25000	Rainfall: No Data
Northing/Long.: 5877280 AMG zone: 55	Runoff: No Data
Easting/Lat.: 735670 Datum: AGD66	Drainage: Well drained

Geology

ExposureType: Soil pit	Conf. Sub. is Parent. Mat.: Probable
Geol. Ref.: No Data	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: 8 %	Aspect: 180 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: Gn1.31
	Great Soil Group: 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; 10-20%, cobbly, 60-200mm, subangular, Quartz

Profile Morphology

O1	0 - 0.02 m	Organic Layer; ; Coarse sandy loam; Moist; Clear, Irregular change to -
A1	0.02 - 0.22 m	Very dark grey (10YR3/1-Moist); ; Coarse sandy clay loam; Weak grade of structure, 2-5 mm, Granular; Earthy fabric; Wet; Weak consistence; 10-20%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments; 10-20%, coarse gravelly, 20-60mm, subangular, dispersed, coarse fragments; Field pH 4 (Raupach); Many, fine (1-2mm) roots; Many, medium (2-5mm) roots; Many, coarse (>5mm) roots; Clear, Smooth change to -
A2s	0.22 - 0.32 m	Greyish brown (10YR5/2-Moist); ; Coarse sandy clay loam; Weak grade of structure, 2-5 mm, Polyhedral; Earthy fabric; Wet; Weak consistence; 10-20%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments; Field pH 3.5 (Raupach); Common, fine (1-2mm) roots; Common, medium (2-5mm) roots; Common, coarse (>5mm) roots; Gradual, Wavy change to -
B21h	0.32 - 0.45 m	Yellowish brown (10YR5/8-Moist); ; Coarse sandy clay loam; Moderate grade of structure, 5-10 mm, Polyhedral; Rough-ped fabric; Wet; Firm consistence; 10-20%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments; Few cutans, <10% of ped faces or walls coated, distinct; Few (2 - 10 %), Ferruginous, Coarse (6 - 20 mm), Soft segregations; Few (2 - 10 %), Ferruginous, Very coarse (20 - 60 mm), Soft segregations; Few (2 - 10 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Few (2 - 10 %), Ferruginous, Very coarse (20 - 60 mm), Nodules; , Organic (humified), , ; Field pH 4.5 (Raupach); Common, medium (2-5mm) roots; Common, coarse (>5mm) roots; Diffuse, Wavy change to -
B22	0.45 - 0.62 m	Yellowish brown (10YR5/8-Moist); ; Coarse sandy clay loam; Weak grade of structure, 5-10 mm, Polyhedral; Earthy fabric; Wet; Weak consistence; 10-20%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments; Field pH 5.5 (Raupach); Few, fine (1-2mm) roots; Few, coarse (>5mm) roots; Clear, Wavy change to -
B23	0.62 - 0.92 m	Brownish yellow (10YR6/6-Moist); ; Massive grade of structure; Sandy (grains prominent) fabric; Moist; Weak consistence; 10-20%, fine gravelly, 2-6mm, subangular, reoriented, coarse fragments; Field pH 5.5 (Raupach); Few, coarse (>5mm) roots;
C	0.92 - 1.12 m	; Massive grade of structure; Sandy (grains prominent) fabric; Very firm consistence; 50-90%, undisturbed, coarse fragments;

Morphological Notes

A2s Humic straining in B21 is sporadic - onemajor patch adjacent to root. Colour is 5YR 4/8, darker where kinoo has extrudedseveral small Fe nodules. CONT. IN L4 NOTES...

Project Name: EDEN BURNING STUDY AREA
Project Code: 1000638 **Site ID:** EDB_SA29 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

B21h Dominant ped size also 10-20mm. L3 CONT... DOM. PED SIZE ALSO 10-20MM.
ALSO 'OTHER' PED COATING - ORGANIC. SOFT & HARD NODULES.

Observation Notes

Site process also transportational. Sitealong S-N spur. Crest to the north.

Site Notes

DP34

Project Name: EDEN BURNING STUDY AREA
Project Code: 1000638 Site ID: EDB_SA29 Observation ID: 1
Agency Name: CSIRO Division of Soils (ACT)

Laboratory Test Results:

Depth m	pH	1:5 EC dS/m	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP %
			Ca	Mg	K	Na Cmol (+)/kg				
0.02 - 0.1	2.85I		1.8F	1.48	0.25	0.22	2.11G			
	3.77H									
0.22 - 0.32	3.31I		0.07F	0.2	0.14	0.1	2.51G			
	4.13H									
0.32 - 0.4	3.62I		0.07F	0.13	0.17	0.07	3.19G			
	4.33H									
0.62 - 0.92	4.04I		0.03F	1.88	0.49	0.13	0.56G			
	5.44H									

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		10.3A		40F	<0.01E			23.3				
0.22 - 0.32		2.42A		13F	<0.01E			20.6				
0.32 - 0.4		1.87A		11F	<0.01E			29.5				
0.62 - 0.92		0.77A		14F	<0.01E			32.8				

[illegible]

Project Name: EDEN BURNING STUDY AREA
Project Code: 1000638 **Site ID:** EDB_SA29 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

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
2A1	Air-dry moisture content
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 (%)