Project Name:	EDEN BURNING STUDY AREA				
Project Code:	1000638	Site ID:	EDB_SA30		
Agency Name:	CSIRO Division	of Soils (A	CT)		

Observation ID: 1

Desc. Date D Map R	esc.: ef.: ng/Long.:	P. Ryan 21/07/87 Sheet No. : 8823 1:25000 5878120 AMG zone: 55 735150 Datum: AGD66	Locality: Elevation: Rainfall: Runoff: Drainage:	270 metre No Data No Data Imperfect		d		
<u>Geolo</u> Expos Geol. F	ureType:	Soil pit No Data	Conf. Sub. is Pare Substrate Materia		Probab No Data			
	ope Class: . Type: Type:	No Data Mid-slope Hillslope 5 %	Pattern Type: Relief: Slope Category: Aspect:	No Data 0 metres No Data 135 degrees				
•	<u>ce Soil Co</u>	ndition (dry): Loose						
	lassificati	on						
N/A ASC C	Confidence		Princi	ing Unit: pal Profile Soil Group		N/A Dy5.21 Yellow podzolic soil		
		not specified <u>e:</u> No effective disturbance othe	r than grazing by hoofe	ed animals				
Veget								
	<u>ce Coarse</u> , cobbly, 60-		velly, 2-6mm, subangu	lar, ; 20-50%	%, coarse	e gravelly, 20-60mm, subangular, ;		
	-	subangular,						
Profile 01	e Morphol 0 - 0.02 n		andy clay loam: Wat:	Gradual W/	www.chon	and to		
A11	0 - 0.02 1	6 , , , ,	Organic Layer; ; Coarse sandy clay loam; Wet; Gradual, Wavy change to -					
	0.02 - 0.1	Earthy fabric; Wet; Weak coarse fragments; 20-509 50%, fine gravelly, 2-6mn	Black (10YR2/1-Moist); ; Coarse sandy clay loam; Weak grade of structure, 2-5 mm, Granular; Earthy fabric; Wet; Weak consistence; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments; 20-50%, cobbly, 60-200mm, subangular, dispersed, coarse fragments; 20- 50%, fine gravelly, 2-6mm, angular, dispersed, coarse fragments; Field pH 4 (Raupach); Many, fine (1-2mm) roots; Many, coarse (>5mm) roots; Clear, Wavy change to -					
A12	0.15 - 0.2	Granular; Earthy fabric; V dispersed, coarse fragme coarse fragments; 20-50%	Very dark grey (10YR3/1-Moist); ; Coarse sandy clay loam; Weak grade of structure, 2-5 mm, Granular; Earthy fabric; Wet; Weak consistence; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments; 20-50%, coarse gravelly, 20-60mm, subangular, dispersed, coarse fragments; 20-50%, fine gravelly, 2-6mm, angular, dispersed, coarse fragments; Field pH 5 (Raupach); Many, fine (1-2mm) roots; Many, coarse (>5mm) roots; Clear, Smooth change to -					
A2	0.24 - 0.4	Brown (10YR4/3-Moist); Coarse sandy clay; Weak grade of structure, 2-5 mm, Granular; Earthy fabric; Wet; Weak consistence; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments; 20-50%, coarse gravelly, 20-60mm, subangular, dispersed, coarse fragments; 20-50%, fine gravelly, 2-6mm, angular, dispersed, coarse fragments; Field pH 5 (Raupach); Few, fine (1-2mm) roots; Abrupt, Smooth change to -						
B2	0.42 - 0.6	Polyhedral; Rough-ped fa dispersed, coarse fragme	Yellowish brown (10YR5/6-Moist); , 20-50% , Distinct; Moderate grade of structure, 10-20 mm, Polyhedral; Rough-ped fabric; Firm consistence; 10-20%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments; 10-20%, coarse gravelly, 20-60mm, subangular, dispersed, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Field pH 5.5					
С	0.62 - 0.6	2 m ;						
	nological I							
01		Thick colluvial A horizon w	with large granite/qu	artz gravel.				
B2		Identified as 'CR' horizon.						

Observation Notes PM at 60cm, impermeable, causes subsoil flow in pit.

Site process also depositional.

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Site Notes DP48 - flat ridge spur Project Name:EDEN BURNING STUDY AREAProject Code:1000638Site ID:EDB_SA30Observation ID:1Agency Name:CSIRO Division of Soils (ACT)

Laboratory Test Results:

Depth	рН	1:5 EC		hangeable	e Cations K	l Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Ca	Mg	ĸ	Cmol (+				%
0.02 - 0.1	2.89I 3.78H		1.11F	1.25	0.33	0.27	2.11G			
0.32 - 0.4	3.84I 4.85H		0.08F	0.2	0.14	0.04	0.95G			
0.42 - 0.62	4.06l 5.1H		0.05F	1.07	0.44	0.09	1.2G			
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Parti GV (icle Size CS FS	Analysis Silt Clay
m	%	%	mg/kg	%	%	%	Mg/m3		%	
0.02 - 0.1		9.29A		58F	<0.0			22.2		
0.32 - 0.4 0.42 - 0.62		1.41A 0.97A		24F 35F	<0.0 <0.0			39.4 28.5		
0.42 - 0.02		0.97A		551	<0.0			20.5		
Depth	COLE		Grav	vimetric/V	olumetric \	Nater Con	tents		K sat	K unsat
m		Sat.	0.05 Bar		0.5 Bar /g - m3/m	1 Bar 3	5 Bar 15 B	Bar	mm/h	mm/h
0.02 - 0.1 0.32 - 0.4										

0.42 - 0.62

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Laboratory Analyses Completed for this profile

15D1_CA	Exchangeable bases (Ca2+,Mg2+,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 KCI 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 (%)