Project Name Project Code: Agency Name	EDGEROI Site ID:	ed419 O	bservation ID:	1				
Site Information Desc. By: Date Desc.: Map Ref.: Northing/Long.: Easting/Lat.: Geology	M.E. Heape 09/04/86 Sheet No. : 8837_N 1:50000	Locality: Elevation: Rainfall: Runoff: Drainage:	Bruce Tout, Oakva 299 metres No Data No Data No Data	ale				
ExposureType: Geol. Ref.:	Undisturbed soil core No Data	Conf. Sub. is Pare Substrate Material						
Land Form Rel/Slope Class Morph. Type: Elem. Type: Slope:	:: No Data No Data Hillcrest 1 %	Pattern Type: Relief: Slope Category: Aspect:	No Data No Data Very gently sloped 70 degrees	d				
<u>Surface Soil C</u> Erosion:	Condition (dry): Loose							
Soil Classifica Australian Soil N/A ASC Confidence Confidence leve Site Disturbar	Classification:	Princip	ng Unit: bal Profile Form: Soil Group:	N/A Dr4.43 Solodic soil				
Vegetation:	se Fragments:							
Profile Morph								
A1 0 - 0.11	m Dark brown (7.5YR3/2-Moi	; Weak grade of struct per 100mm2) Fine (1-	ure, 2-5 mm, Granu 2mm) macropores,	Ilar; Rough-ped fabric; Fine, Moderately moist; Firm				
A2 0.11 - 0	blocky; Rough-ped fabric; I macropores, Moderately m	Fine, (0 - 5) mm crack noist; Strong consisten	; Few (<1 per 100m ce; 2-10%, fine gra	nm2) Fine (1-2mm)				
B21 0.16 - C	grade of structure, 20-50 m blocky; Smooth-ped fabric; Very fine (0.075-1mm) mac gravelly, 2-6mm, subangul	Yellowish red (5YR4/6-Moist); , 7.5YR42, 2-10% , 0-5mm, Distinct; Medium heavy clay; Weak grade of structure, 20-50 mm, Prismatic; Moderate grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Rough-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very strong consistence; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Soft segregations; Field pH 8 (pH meter); Few, fine (1-2mm) roots; Gradual,						
B22k 0.55 - 1.13 m Reddish brown (5YR5/4-Moist); , 5YR21, 2-10% , 0-5mm, Distinct; Light clay; Moderate grade of structure, 50-100 mm, Prismatic; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very strong consistence; 0-2%, fine gravelly, 2-6mm, subangular, Consolidated rock (unidentified), coarse fragments; Common (10 - 20 %), Calcareous, Very coarse (20 - 60 mm), Soft segregations; Field pH 8.5 (pH meter); Few, very fine (0-1mm) roots; Abrupt, Smooth change to -								
C1 1.13 - 1	structure; Few (<1 per 100 firm consistence; 0-2%, fin	mm2) Very fine (0.075 e gravelly, 2-6mm, sul	5-1mm) macropores bangular, Quartz, co					
C2 1.9 - 3.0	03 m Yellow (10YR8/6-Moist); ; (Strong consistence; 0-2%, pH 6.5 (pH meter); Few, fir	fine gravelly, 2-6mm,						
Morphologica A1	I Notes From 16-22cm there is a da	ark, organic-enriched la	ayer, being the top	of the B2. The break				

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vel bands. Roots extend to at least 220cm. Carbonates stop at 160cm. The sandstone has abundant, very fine white clay cementing the sand grains. Overall, this is a most red/brown profile. Apparently well aerated. Co-author McGarry.

Observation Notes

Parent Rock: alluvial sediment, from sandstone, with lime, Tertiary beds

Site Notes

A2

Site located approximately 100 m from grid point. Field situated 100 m away has hard setting soil (by Northcote classification) although natural soil is loose, not hard setting.

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Laboratory Test Results:

Depth	рН	1:5 EC	Exchangeab	le Cations		Exchangeable	CEC	ECEC	ESP
m		Ca dS/m	Mg	К	Na Cmol	Acidity (+)/kg			%
0 - 0.1	6.05A	0.199A 8.4E	3 2.53	0.65	0.03				
0.1 - 0.16	6.33A	0.075A 7.45	B 3.16	0.58	0.19				
0.3 - 0.4	7.67A	0.181A 13.25	B 9.83	0.63	1.1				
0.7 - 0.8	9.14A	0.36A 9.46	B 9.91	0.35	2.06				
1.2 - 1.3	9.57A	0.442A 7.84	B 17.7	0.29	4.46				
2.5 - 2.6	7.01A	0.322A 3.17	B 18.95	0.17	7.86				

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Pa	article	Size	Analysis	5
m	%	C %	P mg/kg	P %	N %	K %	Density Mg/m3	GV	CS	FS %	Silt	Clay
0 - 0.1	<0.1B	1.72C	17.9J								5.9	17
0.1 - 0.16	<0.1B	0.82C	6.6J								5.4	17.1
0.3 - 0.4	<0.1B	0.46C	<1J								5.5	31.9
0.7 - 0.8	9.9B	0.18C	<1J								5.3	27.4
1.2 - 1.3	4.9B	0.07C	<1J								10	28.5
2.5 - 2.6	<0.1B	0.06C	2.3J								13.7	29.1

Depth	COLE	Gravimetric/Volumetric Water Contents						K sat	K unsat	
		Sat.	0.05 Bar		0.5 Bar	1 Bar	5 Bar	15 Bar		_
m				g/	/g - m3/m3	3			mm/h	mm/h

0 - 0.1 0.1 - 0.16 0.3 - 0.4 0.7 - 0.8 1.2 - 1.3 2.5 - 2.6

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Laboratory Analyses Completed for this profile

15A2_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_K	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_MG	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_NA	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
19B1	Carbonates - manometric
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
5A2	Chloride - 1:5 soil/water extract, automated colour
6B3	Total organic carbon - high frequency induction furnace, infrared
7B1	Water soluble nitrate - automated colour
9B1	Bicarbonate-extractable phosphorus - manual colour
P10_CF_C	Clay (%) - Coventry and Fett pipette method
P10_CF_Z	Silt (%) - Coventry and Fett pipette method