Projec	t Code: E	oil Studies in the Lower N DGEROI Site ID: SIRO Division of Soils (Q	ed013 C	Observation ID:	1			
Site InformationDesc. By:D. McGarryDate Desc.:13/06/86Map Ref.:Sheet No. : 8837_N 1:50000Northing/Long.:6677050 AMG zone: 55Easting/Lat.:774900 Datum: AGD66			Locality: Elevation: Rainfall: Runoff: Drainage:	A.J.(Alan) Dowe, 262 metres No Data No Data No Data No Data	Roderick Plains			
Geology ExposureType: Undisturbed soil core Geol. Ref.: No Data			Conf. Sub. is Pare Substrate Materia					
Land FormRel/Slope Class:No DataMorph. Type:No DataElem. Type:Terrace flatSlope:1 %			Pattern Type: Relief: Slope Category: Aspect:	No Data				
<u>Surfac</u>	e Soil Condi	tion (dry): Self-mulching, S	oft					
Erosio	n: assification							
Austral N/A	ian Soil Class	ification:	ion: Mapping Unit: Principal Profile Form: Great Soil Group:					
	ence level not s	pecified	Great	Son Group.	Brown clay			
-		Cultivation. Rainfed						
Vegeta Surfac	ation: e Coarse Fra	agments:						
	Morphology							
A1p	A1p 0 - 0.12 m Dark brown (7.5YR3/2-Moist); Dark brown (7.5YR3/2-Dry); ; Light medium clay; Moderate grad of structure, 2-5 mm, Granular; Rough-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Weak consistence; Field pH 9 (pH meter); Common, very fine (0-1mm) roots; Sharp, Wavy change to							
AC	0.12 - 0.2 m	Dark brown (10YR3/3-Moist); , 10YR62, 0-2% , 5-15mm, Distinct; Light medium clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Moderate grade of structure, 2-5 mm, Granular; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Weak consistence; 0-2%, fine gravelly, 2-6mm, angular tabular, Quartz, coarse fragments; Field pH 9 (pH meter); Few, very fine (0-1mm) roots; Sharp, Wavy change to -						
2A11	0.2 - 0.3 m	Dark brown (10YR3/3-Moist); , 10YR63, 2-10% , 5-15mm, Distinct; Medium heavy clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Weak consistence; Field pH 8.5 (pH meter); Few, very fine (0-1mm) roots;						
2A12	0.3 - 0.55 m Dark brown (7.5YR3/2-Moist); , 10YR72, 0-2% , 0-5mm, Distinct; Medium heavy clay; Moderate grade of structure, 10-20 mm, Lenticular; Moderate grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very firm consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 9 (pH meter); Few, very fine (0-1mm) roots;							
2A13	0.55 - 1 m	Dark brown (7.5YR3/2-Mois Lenticular; Moderate grade 5) mm crack; Few (<1 per 1 Strong consistence; Field p	of structure, 5-10 m 100mm2) Very fine (m, Angular blocky; \$ 0.075-1mm) macrop	Smooth-ped fabric; Fine, (0 - ores, Moderately moist;			
2B21	1 - 1.55 m	Dark brown (7.5YR3/2-Mois of structure, 50-100 mm, Le Smooth-ped fabric; Fine, (0 macropores, Moderately mo	enticular; Moderate g - 5) mm crack; Few	grade of structure, 5 (<1 per 100mm2) \	-10 mm, Angular blocky; /ery fine (0.075-1mm)			
2B22	1.55 - 3.05 m Reddish brown (2.5YR4/4-Moist); , 5YR32, 2-10% , 0-5mm, Distinct; , 7.5YR84, 0-2% , 15- 30mm, Distinct; Medium heavy clay; Moderate grade of structure, 50-100 mm, Lenticular; Moderate grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very firm consistence; Very few (0 - 2 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; Field pH							

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Morphological Notes

A1p	The profile is very wet. The contact between .02 and . 03 is a thin layer of mud bands -
	10YR6/3, composed of concave laminae of clay and silt - old sundried mud cracks.
	Immediately beneath them (013.03) a sample of A12 of the older soil ha
	s been taken. The A11 of that soil has gone. The second soil is similar to MVpH. 0-20cm is evidently a recent alluvial accumulation.

Observation Notes

Parent Rock: alluvial sediment, mixed texture, non-calcareous, clay second (brown parna) terraced

Site Notes

Roderick Plains, near drainage line and possibly subject to periodic flooding. Core may show signs of recent burial. Noogoora

Observation ID: 1

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Laboratory Test Results:

Depth	рН	1:5 EC		hangeable Mg	Cations K	E Na	Exchangeable Acidity	CEC		ECEC	ESP
m		dS/m	Ca	wg	n	Cmol (+)					%
0 - 0.02	8.8A	0.16A	31.84B	21.12	2.03	1.23					
0 - 0.1	8.54A	0.185A	26.83B	23.04	1.74	1.06					
0.12 - 0.2	8.6A	0.196A	26.37B	22.78	1.72	1.22					
0.2 - 0.3	8.76A	0.191A	32.61B	22.39	1.18	2					
0.3 - 0.4	8.85A	0.198A	28.36B	26.09	1.05	2.56					
0.7 - 0.8	9.11A	0.286A	24.61B	26.55	1.28	7.7					
1.2 - 1.3	9.09A	0.505A	20.28B	29.77	1.49	9.5					
2.5 - 2.6	8.96A	0.805A	17.15B	32.57	1.45	10.56					
Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Pa	rticle	Size	Analysis
•		č	Р	Р	N	к	Density	GV	CS	FS	Silt Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%	-
0 - 0.02	0.7B	0.95C									18.9 64.3
0 - 0.1	1.5B	0.77C	32J								17.2 57.4
0.12 - 0.2	1.3B	0.7C	30.1J								16.1 56.3
0.2 - 0.3	0.6B	0.71C	11.7J								15.7 62.1
0.3 - 0.4	0.9B	0.67C	6.9J								17 62.7
0.7 - 0.8	0.7B	0.63C	17.4J								16 63.8
1.2 - 1.3	0.8B	0.54C	27.3J								15.5 59.7
2.5 - 2.6	2.1B	0.22C	29.4J								16.7 62.2
Depth	COLE			vimetric/Vo					Ks	at	K unsat
		Sat.	0.05 Bar		0.5 Bar	1 Bar	5 Bar 15	Bar			
m				g/	g- m3/m	ა			mm	i/n	mm/h
0 - 0.02											
0 - 0.1											

0 - 0.02 0 - 0.1 0.12 - 0.2 0.2 - 0.3 0.3 - 0.4 0.7 - 0.8 1.2 - 1.3 2.5 - 2.6

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Observation ID: 1

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