

Project Name: Regional
Project Code: REG **Site ID:** T371 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	M.G. Cannon	Locality:	
Date Desc.:	22/11/83	Elevation:	20 metres
Map Ref.:	Sheet No. : 8161 1:100000	Rainfall:	2250
Northing/Long.:	146.056944444445	Runoff:	Very slow
Easting/Lat.:	-18.3361111111111	Drainage:	Imperfectly drained

Geology

ExposureType:	Undisturbed soil core	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	QA	Substrate Material:	Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	Level plain <9m <1%	Pattern Type:	Plain
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	Plain	Slope Category:	Level
Slope:	0.5 %	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Eutrophic Mottled-Subnatic Grey Sodosol		Principal Profile Form:	Dy3.41
ASC Confidence:		Great Soil Group:	Soloth
All necessary analytical data are available.			

Site Disturbance: No effective disturbance. Natural

Vegetation: Low Strata - Tussock grass, 0.51-1m, Mid-dense. *Species includes - None recorded
Tall Strata - Tree, 12.01-20m, Sparse. *Species includes - Melaleuca viridiflora, Angophora costata

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.07 m	Grey (10YR5/1-Moist); Mottles, 0-0% ; Mottles, 0-0% ; Sandy clay loam (Light); Massive grade of structure; Earthy fabric; Moderately moist; Very weak consistence; Few, very fine (0-1mm) roots; Clear, Smooth change to -
A2cb	0.07 - 0.1 m	Light grey (10YR7/2-Moist); White (10YR8/2-Dry); Mottles, 10YR78, 10-20% , 5-15mm, Distinct; Mottles, 10-20% , 5-15mm, Distinct; Fine sandy clay loam; Massive grade of structure; Earthy fabric; Moderately moist; Very weak consistence; Few, very fine (0-1mm) roots;
A2cb	0.1 - 0.2 m	Light grey (10YR7/2-Moist); White (10YR8/2-Dry); Mottles, 10YR78, 10-20% , 5-15mm, Distinct; Mottles, 10-20% , 5-15mm, Distinct; Fine sandy clay loam; Massive grade of structure; Earthy fabric; Moderately moist; Very weak consistence; Few, very fine (0-1mm) roots; Clear, Wavy change to -
B1	0.2 - 0.25 m	Light brownish grey (10YR6/2-Moist); Mottles, 10YR68, 20-50% , 5-15mm, Distinct; Mottles, 20-50% , 5-15mm, Distinct; Light medium clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Firm consistence; Few, fine (1-2mm) roots; Diffuse, Smooth change to -
B21	0.25 - 0.3 m	Light brownish grey (2.5Y6/2-Moist); Mottles, 10YR68, 10-20% , 0-5mm, Distinct; Mottles, 10-20% , 0-5mm, Distinct; Medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; Few, fine (1-2mm) roots;
B21	0.3 - 0.6 m	Light brownish grey (2.5Y6/2-Moist); Mottles, 10YR68, 10-20% , 0-5mm, Distinct; Mottles, 10-20% , 0-5mm, Distinct; Medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; Few, fine (1-2mm) roots; Diffuse, Broken change to -
B2b	0.6 - 0.9 m	Grey (5Y6/1-Moist); Mottles, 10YR58, 2-10% , 0-5mm, Distinct; Mottles, 2-10% , 0-5mm, Distinct; Heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very strong consistence; 20-50%, coarse gravelly, 20-60mm, subangular, dispersed, Quartz, coarse fragments;
B2b	0.9 - 1 m	Grey (5Y6/1-Moist); Mottles, 10YR58, 2-10% , 0-5mm, Distinct; Mottles, 2-10% , 0-5mm, Distinct; Heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very strong consistence; 20-50%, coarse gravelly, 20-60mm, subangular, dispersed, Quartz, coarse fragments;

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Observation Notes

ROUNDED GN GV STOPPED AUGER:VERY DENSE B23/D ALSO BLEACHED VERTICALLY:

Site Notes

Morphological Notes

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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			%
						Cmol	(+)/kg			
0 - 0.07	5.5A	0.04A	1.57H	0.67	0.15	0.06	0.09F	2.9A 3.4C	2.5F	2.07 1.76
0.07 - 0.1	5.4A	0.024A								
0.1 - 0.2	5.4A	0.015A	0.5H	0.53	0.07	0.1	0.14F	2A 1C	1.3F	5.00 10.00
0.2 - 0.25	5.8A	0.017A	1.1H	1.6	0.1	0.23	0.45F	4.1A 4.7C	3.5F	5.61 4.89
0.25 - 0.3	5.7A	0.018A								
0.3 - 0.6	5.6A	0.024A	1.71H	3.46	0.06	0.5	1.18F	7A 8.9C	6.9F	7.14 5.62
0.6 - 0.9	5.8A	0.052A								
0.9 - 1	5.8A	0.058A	2.43H	5.49	0.04	1.28	0.88F	10.7A 11.5C	10.1F	11.96 11.13

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size		Analysis		
m	%	%	mg/kg	%	%	%	Mg/m3	GV	CS	FS %	Silt	Clay
0 - 0.07		1.23C	5B	0.004A	0.06A	2.61A		1	26A	37	29	8
0.07 - 0.1								8	24A	39	31	7
0.1 - 0.2		0.25C	5B					1	25A	38	29	9
0.2 - 0.25		0.27C	2B		0.02A			1	21A	28	24	28
0.25 - 0.3								1	17A	21	24	38
0.3 - 0.6		0.28C	2B	0.003A		1.86A		2	16A	23	25	36
0.6 - 0.9								1	14A	29	27	31
0.9 - 1		0.12C		0.001A		2.3A		1	12A	27	31	30

[illegible]

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Laboratory Analyses Completed for this profile

10A1	Total sulfur - X-ray fluorescence
12_HF_CU	Total element - Cu(mg/kg) - HF/HClO ₄ Digest
12_HF_FE	Total element - Fe(%) - HF/HClO ₄ Digest
12_HF_MN	Total element - Mn(mg/kg) - HF/HClO ₄ Digest
12_HF_ZN	Total element - Zn(mg/kg) - HF/HClO ₄ Digest
13C1_FE	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
15A2_CEC	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15D1_CEC	CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
15E1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) by compulsive exchange, no pretreatment for soluble salts
15E1_K	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_MG	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_NA	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15G_C	Exchange acidity (hydrogen and aluminium) - meq per 100g of soil - By 1M KCl exch. acidity by titration to pH 8.4
15J1	Effective CEC
17A1	Total potassium - X-ray fluorescence
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
6B3	Total organic carbon - high frequency induction furnace, infrared
7A2	Total nitrogen - semimicro Kjeldahl , automated colour
9A1	Total phosphorus - X-ray fluorescence
9G_BSES	Available P (mg/kg) - Acid P - 0.005M H ₂ SO ₄ (BSES)
9H1	Phosphate retention
P10_CF_C	Clay (%) - Coventry and Fett pipette method
P10_CF_CS	Coarse sand (%) - Coventry and Fett pipette method
P10_CF_FS	Fine sand (%) - Coventry and Fett pipette method
P10_CF_Z	Silt (%) - Coventry and Fett pipette method
P10_GRAV	Gravel (%)