

Project Name: Regional
Project Code: REG **Site ID:** T376 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	M.G. Cannon	Locality:	
Date Desc.:	23/11/84	Elevation:	15 metres
Map Ref.:	Sheet No. : 8061 1:100000	Rainfall:	0
Northing/Long.:	145.983333333333	Runoff:	No Data
Easting/Lat.:	-18.238888888889	Drainage:	No Data

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:	Alluvial plain
Morph. Type:	Flat	Relief:	4 metres
Elem. Type:	Plain	Slope Category:	Level
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Soft

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Acidic-Mottled Magnesic Yellow Dermosol		Principal Profile Form:	Uf6.31
ASC Confidence:		Great Soil Group:	No suitable group
All necessary analytical data are available.			

Site Disturbance: No effective disturbance. Natural

Vegetation:

Tall Strata - Tree, 20.01-35m, Closed or dense. *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Dark greyish brown (10YR4/2-Moist); Mottles, 0-0% ; Mottles, 0-0% ; Silty medium clay; Strong grade of structure, 2-5 mm, Cast; Smooth-ped fabric; Moderately moist; Weak consistence; Common, fine (1-2mm) roots; Gradual, Wavy change to -
A3	0.1 - 0.2 m	Brown (10YR4/3-Moist); Mottles, 0-0% ; Mottles, 0-0% ; Light medium clay; Strong grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Firm consistence; Common, fine (1-2mm) roots; Diffuse, Wavy change to -
B1	0.2 - 0.3 m	Brown (10YR5/3-Moist); Mottles, 0-0% ; Mottles, 0-0% ; Medium clay; Strong grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Firm consistence; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Common, fine (1-2mm) roots;
B1	0.3 - 0.45 m	Brown (10YR5/3-Moist); Mottles, 0-0% ; Mottles, 0-0% ; Medium clay; Strong grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Firm consistence; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Common, fine (1-2mm) roots; Diffuse, Wavy change to -
B2	0.45 - 0.6 m	Brownish yellow (10YR6/6-Moist); Mottles, 10YR74, 10-20% , 5-15mm, Distinct; Mottles, 10-20% , 5-15mm, Distinct; Medium clay; Strong grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Firm consistence; Common, fine (1-2mm) roots;
B2	0.6 - 0.9 m	Brownish yellow (10YR6/6-Moist); Mottles, 10YR74, 10-20% , 5-15mm, Distinct; Mottles, 10-20% , 5-15mm, Distinct; Medium clay; Strong grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Firm consistence; Common, fine (1-2mm) roots;
B2	0.9 - 1.1 m	Brownish yellow (10YR6/6-Moist); Mottles, 10YR74, 10-20% , 5-15mm, Distinct; Mottles, 10-20% , 5-15mm, Distinct; Medium clay; Strong grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Firm consistence; Common, fine (1-2mm) roots; Clear, Smooth change to -
D1	1.1 - 1.2 m	Pale yellow (2.5Y7/4-Moist); Mottles, 10YR68, 20-50% , 5-15mm, Distinct; Mottles, 20-50% , 5-15mm, Distinct; Clayey sand; Massive grade of structure; Earthy fabric; Moderately moist; Weak consistence;

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D1	1.2 - 1.5 m	Pale yellow (2.5Y7/4-Moist); Mottles, 10YR68, 20-50% , 5-15mm, Distinct; Mottles, 20-50% , 5-15mm, Distinct; Clayey sand; Massive grade of structure; Earthy fabric; Moderately moist; Weak consistence; Clear, Smooth change to -
D2	1.5 - 1.8 m	Light grey (2.5Y7/2-Moist); Mottles, 10YR68, 10-20% , 0-5mm, Faint; Mottles, 10-20% , 0-5mm, Faint; Coarse sand; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; Loose consistence; 50-90%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Clear, Wavy change to -
D3	1.8 - 2 m	Greyish brown (2.5Y5/2-Moist); Mottles, 2.5Y56, 10-20% , 0-5mm, Faint; Mottles, 10-20% , 0-5mm, Faint; Medium heavy clay; Strong grade of structure, 50-100 mm, Columnar; Smooth-ped fabric; Moderately moist; Very firm consistence; Few, very fine (0-1mm) roots;

Morphological Notes

Observation Notes

A 3CM COARSE PAN FRAGMENT AT 40CM:COARSE BLEACHED GRAVELS BELOW CLAY HORIZON:

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[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
5A2	Chloride - 1:5 soil/water extract, automated colour
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 (%)