

Project Name: Regional
Project Code: REG **Site ID:** T218 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.G. Murtha	Locality:	On boundary between Bentley and Cordingley's
Date Desc.:	05/12/73	Elevation:	15 metres
Map Ref.:	Sheet No. : 8259 1:100000	Rainfall:	1140
Northing/Long.:	146.953055555556	Runoff:	Slow
Easting/Lat.:	-19.3858333333333	Drainage:	Imperfectly drained

Geology

ExposureType:	Undisturbed soil core	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Qa	Substrate Material:	No Data

Land Form

Rel/Slope Class:	Level plain <9m <1%	Pattern Type:	Alluvial plain
Morph. Type:	Flat	Relief:	0 metres
Elem. Type:	Plain	Slope Category:	Level
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Bleached-Sodic Eutrophic Brown Chromosol		Principal Profile Form:	Dy3.42
ASC Confidence:		Great Soil Group:	Solodic soil
All necessary analytical data are available.			

Site Disturbance: Limited clearing, for example selective logging

Vegetation: Low Strata - Tussock grass, 0.51-1m, Mid-dense. *Species includes - Heteropogon contortus
Mid Strata - Tree, 3.01-6m, Very sparse. *Species includes - None recorded
Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - Eucalyptus drepanophylla, Eucalyptus polycarpa,
Eucalyptus tessellaris

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Dark grey (10YR4/1-Moist); ; Silty loam; Massive grade of structure; Dry; Very firm consistence; Gradual change to -
A2	0.1 - 0.2 m	Greyish brown (10YR5/2-Moist); Light grey (10YR7/2-Dry); ; Silty loam; Massive grade of structure; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Dry; Firm consistence; Few (2 - 10 %), Ferromanganiferous, Medium (2 -6 mm), Nodules;
A2	0.2 - 0.3 m	Greyish brown (10YR5/2-Moist); Light grey (10YR7/2-Dry); ; Silty loam; Massive grade of structure; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Dry; Firm consistence; Few (2 - 10 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; Gradual change to -
A3	0.3 - 0.35 m	Yellowish brown (10YR5/4-Moist); Very pale brown (10YR7/4-Dry); ; Silty clay loam; Massive grade of structure; Dry; Firm consistence; Abrupt change to -
B2	0.35 - 0.5 m	Yellowish brown (10YR5/6-Moist); , 10YR62, 10-20% , 5-15mm, Faint; , 10-20% , 5-15mm, Faint; Heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Dry; Very strong consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Few (2 - 10 %), Ferromanganiferous, Medium (2 -6 mm), Nodules;
B2	0.5 - 0.6 m	Yellowish brown (10YR5/6-Moist); , 10YR62, 10-20% , 5-15mm, Faint; , 10-20% , 5-15mm, Faint; Heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Dry; Very strong consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Few (2 - 10 %), Ferromanganiferous, Medium (2 -6 mm), Nodules;
B2	0.6 - 0.9 m	Yellowish brown (10YR5/8-Moist); , 10YR62, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Dry; Very strong consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Few (2 - 10 %), Ferromanganiferous, Medium (2 -6 mm), Nodules;
BC	0.9 - 1.2 m	Yellowish brown (10YR5/6-Moist); , 10YR51, 10-20% , 0-5mm, Distinct; , 10-20% , 0-5mm, Distinct; Heavy clay; Weak grade of structure, 20-50 mm, Angular blocky; Dry; Very strong consistence; Common (10 - 20 %), Ferromanganiferous, Coarse (6 - 20 mm), Concretions;

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BC	1.2 - 1.38 m	Yellowish brown (10YR5/6-Moist); , 10YR51, 10-20% , 0-5mm, Distinct; , 10-20% , 0-5mm, Distinct; Heavy clay; Weak grade of structure, 20-50 mm, Angular blocky; Dry; Very strong consistence; Common (10 - 20 %), Ferromanganiferous, Coarse (6 - 20 mm), Concretions; Gradual change to -
D	1.38 - 1.5 m	Grey (10YR5/1-Moist); , 10YR43, 20-50% , 0-5mm, Faint; , 20-50% , 0-5mm, Faint; Heavy clay; Strong grade of structure, 5-10 mm, Angular blocky; Dry; Very strong consistence; Few (2 - 10 %), Ferromanganiferous, Medium (2 -6 mm), Nodules;
D	1.5 - 1.8 m	Grey (10YR5/1-Moist); , 10YR43, 20-50% , 0-5mm, Faint; , 20-50% , 0-5mm, Faint; Heavy clay; Strong grade of structure, 5-10 mm, Angular blocky; Dry; Very strong consistence; Few (2 - 10 %), Ferromanganiferous, Medium (2 -6 mm), Nodules;
D	1.8 - 2.05 m	Grey (10YR5/1-Moist); , 10YR43, 20-50% , 0-5mm, Faint; , 20-50% , 0-5mm, Faint; Heavy clay; Strong grade of structure, 5-10 mm, Angular blocky; Dry; Very strong consistence; Few (2 - 10 %), Ferromanganiferous, Medium (2 -6 mm), Nodules;

Morphological Notes

Observation Notes

30-35CM SOME BLEACHED PATCHES THROUGHOUT:60-90CM FEW COARSE SLICKENSIDES:90-138CM MUCH FELSPATHIC FLECKING:

Site Notes

ALLIGATOR CK

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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/HClO4 Digest
12_HF_ZN	Total element - Zn(mg/kg) - HF/HClO4 Digest
15A2_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,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
17A1	Total potassium - X-ray fluorescence
2A1	Air-dry moisture content
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
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7A2	Total nitrogen - semimicro Kjeldahl , automated colour
9A1	Total phosphorus - X-ray fluorescence
9G_BSES	Available P (mg/kg) - Acid P - 0.005M H2SO4 (BSES)
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 (%)