

Project Name: Regional
Project Code: REG **Site ID:** T190 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.G. Murtha	Locality:	Just west of proposed levee bank along fence line west from yards on Ross River:
Date Desc.:	24/11/70	Elevation:	31 metres
Map Ref.:	Sheet No. : 8259 1:100000	Rainfall:	1020
Northing/Long.:	146.729166666667	Runoff:	Moderately rapid
Easting/Lat.:	-19.4458333333333	Drainage:	Poorly drained

Geology

Exposure Type:	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): Firm

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Haplic Mesotrophic Brown Kandosol		Principal Profile Form:	Gn2.24
ASC Confidence:		Great Soil Group:	Yellow earth

No analytical data are available but confidence is fair.

Site Disturbance: No effective disturbance other than grazing by hoofed animals

Vegetation: Low Strata - Tussock grass, 0.51-1m, Mid-dense. *Species includes - Heteropogon contortus
Tall Strata - Tree, 6.01-12m, Very sparse. *Species includes - Eucalyptus alba, Eucalyptus papuana

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Dark greyish brown (10YR4/2-Moist); ; Sandy loam; Massive grade of structure; Moist; Weak consistence; 2-10%, Quartz, coarse fragments; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Nodules;
A2	0.1 - 0.2 m	Pale brown (10YR6/3-Moist); , 10YR52; Sandy loam (Heavy); Massive grade of structure; Moist; Weak consistence; 0-2%, Quartz, coarse fragments; Gradual change to -
B1	0.2 - 0.3 m	Yellowish brown (10YR5/4-Moist); ; Sandy clay loam (Light); Massive grade of structure; Earthy fabric; Moist; Weak consistence; 0-2%, Quartz, coarse fragments; Few (2 - 10 %), Ferromanganiferous, Medium (2 - 6 mm), Nodules;
B2	0.3 - 0.5 m	Yellowish brown (10YR5/6-Moist); ; Sandy clay loam (Heavy); Massive grade of structure; Dry; Firm consistence; 0-2%, Quartz, coarse fragments; Few (2 - 10 %), Ferromanganiferous, Coarse (6 - 20 mm), Nodules; Abrupt change to -
D	0.5 - 0.6 m	Greyish brown (10YR5/2-Moist); , 5YR54, 10-20% , 0-5mm, Distinct; , 10-20% , 0-5mm, Distinct; Heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Dry; Very strong consistence; 0-2%, fine gravelly, 2-6mm, Granite, coarse fragments;
D	0.6 - 0.9 m	Greyish brown (10YR5/2-Moist); , 5YR54, 10-20% , 0-5mm, Distinct; , 10-20% , 0-5mm, Distinct; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Dry; Very strong consistence; 2-10%, fine gravelly, 2-6mm, Granite, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Medium (2 - 6 mm), Nodules;

Morphological Notes

D Grades to bl'ched hor.at 140CM to pedal mottle HC at 150CM:

Observation Notes

10-30CM A1+A2 MATERIAL DOWN WORM CASTS:

Site Notes

ROSS RIVER

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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 - 0.1	6.4A	0.035A						
0.1 - 0.2	6.6A	0.026A						
0.2 - 0.3	6.6A	0.026A						
0.3 - 0.5	6.5A	0.023A						
0.5 - 0.6	6.6A	0.02A						
0.6 - 0.9	6.7A	0.02A						

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Laboratory Analyses Completed for this profile

2A1	Air-dry moisture content
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7A2	Total nitrogen - semimicro Kjeldahl , automated colour
9B_9C	Available P (mg/kg) - Bicarbonate P - 0.5M NaHCO ₃ extractable
9G_BSES	Available P (mg/kg) - Acid P - 0.005M H ₂ SO ₄ (BSES)