

Project Name: Regional
Project Code: REG **Site ID:** T106 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.G. Murtha	Locality:	On mid terrace of Black River on road crossing west of Meadow Bank yards:
Date Desc.:	14/10/69	Elevation:	40 metres
Map Ref.:	Sheet No. : 8259 1:100000	Rainfall:	0
Northing/Long.:	146.5	Runoff:	Moderately rapid
Easting/Lat.:	-19.3166666666667	Drainage:	No Data

Geology

Exposure Type:	Auger boring	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	QA	Substrate Material:	Auger boring, 305 m deep, Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Terrace (alluvial)
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	Plain	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Melanic Eutrophic Grey Kandosol		Principal Profile Form:	Gn2.42
ASC Confidence:		Great Soil Group:	Alluvial soil

Analytical data are incomplete but reasonable confidence.

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
 Mid Strata - Forb, 1.01-3m, Isolated clumps. *Species includes - Lantana camara
 Tall Strata - Tree, 12.01-20m, Very sparse. *Species includes - Eucalyptus tessellaris

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Very dark grey (10YR3/1-Moist); ; Sandy loam (Heavy); Moderate grade of structure, 5-10 mm, Angular blocky; Rough-ped fabric; Dry; Very firm consistence;
A1	0.1 - 0.2 m	Very dark grey (10YR3/1-Moist); ; Loam; Moderate grade of structure, 5-10 mm, Angular blocky; Rough-ped fabric; Dry; Very firm consistence; Gradual change to -
A1	0.2 - 0.3 m	Very dark grey (10YR3/1-Moist); ; Loam (Heavy); Moderate grade of structure, 5-10 mm, Angular blocky; Rough-ped fabric; Dry; Very firm consistence;
B2	0.3 - 0.5 m	Very dark greyish brown (10YR3/2-Moist); Brown (10YR4/3-Dry); ; Clay loam; Massive grade of structure; Earthy fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Very firm consistence; Clear change to -
D1	0.5 - 0.6 m	Dark brown (10YR3/3-Moist); Brown (10YR4/3-Dry); ; Sandy loam; Strong grade of structure, <2 mm, Angular blocky; Massive grade of structure; Rough-ped fabric; Dry; Very firm consistence;
D1	0.6 - 0.9 m	Dark brown (10YR3/3-Moist); Brown (10YR4/3-Dry); ; Sandy loam; Strong grade of structure, <2 mm, Angular blocky; Massive grade of structure; Rough-ped fabric; Dry; Very firm consistence; Gradual change to -
D2	0.9 - 1.2 m	Brown (7.5YR4/2-Moist); ; Sandy clay loam; Massive grade of structure; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Very firm consistence; Gradual change to -
	1.2 - 1.5 m	Brown (7.5YR4/2-Moist); ; Fine sandy loam; Massive grade of structure; Many (>5 per 100mm2) Fine (1-2mm) macropores, Weak consistence; Clear change to -
	1.5 - 1.7 m	Dark yellowish brown (10YR4/4-Moist); ; Fine sandy loam (Heavy); Massive grade of structure; Very weak consistence; Clear change to -
	1.7 - 1.9 m	Brown (10YR4/3-Moist); ; Fine sandy loam; Massive grade of structure; Many (>5 per 100mm2) Fine (1-2mm) macropores, Weak consistence; Clear change to -

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- 1.9 - 2.15 m Yellowish brown (10YR5/4-Moist); ; Fine sand; Single grain grade of structure; Loose consistence; Clear change to -
- 2.15 - 2.45 m Brown (7.5YR4/2-Moist); , 10YR62; Fine sandy loam (Heavy); Strong grade of structure, <2 mm, Angular blocky; Massive grade of structure; Rough-ped fabric; Many (>5 per 100mm²) Fine (1-2mm) macropores, Firm consistence; Clear change to -
- 2.45 - 3.05 m Light yellowish brown (10YR6/4-Moist); ; Sand; Single grain grade of structure; Loose consistence; 2-10%, rounded, Gravel, coarse fragments;
- 3.05 - 3.15 m ;

Morphological Notes

Water worn gravel stopped auger:

Observation Notes

Site Notes

BLACK RIVER

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[illegible]

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Laboratory Analyses Completed for this profile

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
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)
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 (%)