

Project Name: REG
Project Code: REG **Site ID:** T238 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (WA)

Site Information

Desc. By:	R.F. Isbell	Locality:	9KM SW of crossing of Carson River south of Kalumbaru Mission (Barton Land System):
Date Desc.:	10/09/74	Elevation:	100 metres
Map Ref.:	Sheet No. : 4269 1:100000	Rainfall:	900
Northing/Long.:	126.616666666667	Runoff:	Moderately rapid
Easting/Lat.:	-14.5	Drainage:	Imperfectly drained

Geology

Exposure Type:	Auger boring	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Qa	Substrate Material:	No Data

Land Form

Rel/Slope Class:	Gently undulating plains <9m 1-3%	Pattern Type:	Alluvial plain
Morph. Type:	Simple-slope	Relief:	No Data
Elem. Type:	Plain	Slope Category:	Very gently sloped
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Haplic Eutrophic Brown Kandosol		Principal Profile Form:	Gn3.22
ASC Confidence:		Great Soil Group:	N/A
All necessary analytical data are available.			

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

Vegetation: Low Strata - Tussock grass, 0.51-1m, Mid-dense. *Species includes - Sorghum plumosum
Tall Strata - Tree, 6.01-12m, Very sparse. *Species includes - None Recorded

Surface Coarse Fragments: 2-10%, fine gravelly, 2-6mm, subrounded, Other

Profile Morphology

A1	0 - 0.1 m	Brown (10YR4/3-Moist); ; Clay loam; Massive grade of structure; Strong consistence; Gradual change to -
B1	0.1 - 0.2 m	Strong brown (7.5YR4/6-Moist); ; 2.5YR58; Light clay; Massive grade of structure; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Strong consistence; Few (2 - 10 %), Ferruginous, Fine (0 - 2 mm), Nodules;
B1	0.2 - 0.3 m	Strong brown (7.5YR4/6-Moist); ; 2.5YR58; Light clay; Massive grade of structure; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Strong consistence; Few (2 - 10 %), Ferruginous, Fine (0 - 2 mm), Nodules; Gradual change to -
B21	0.3 - 0.6 m	Strong brown (7.5YR4/6-Moist); ; 2.5YR58; Light medium clay; Weak grade of structure, 5-10 mm, Angular blocky; Strong consistence; 2-10%, rounded, Gravel, coarse fragments; Few (2 - 10 %), Ferruginous, Fine (0 - 2 mm), Nodules;
B22	0.6 - 0.9 m	Strong brown (7.5YR4/6-Moist); ; 2.5YR58, 0-2% , Faint; , 0-2% , Faint; Medium clay; Weak grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Strong consistence; 0-2%, rounded, Gravel, coarse fragments; Few (2 - 10 %), Ferruginous, Fine (0 - 2 mm), Nodules; Gradual change to -
B22	0.9 - 1 m	Strong brown (7.5YR4/6-Moist); ; 2.5YR58, 0-2% , Faint; , 0-2% , Faint; Medium clay; Weak grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Strong consistence; 0-2%, rounded, Gravel, coarse fragments; Few (2 - 10 %), Ferruginous, Fine (0 - 2 mm), Nodules;

Morphological Notes

Observation Notes

<10% <2MM FE NODULES ON SURFACE:

Site Notes

NTH KIMBERLY

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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_ZN	Total element - Zn(mg/kg) - HF/HClO ₄ 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
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
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
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 (%)