

Project Name: Regional
Project Code: REG **Site ID:** T291 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.G. Murtha	Locality:	
Date Desc.:	20/08/80	Elevation:	15 metres
Map Ref.:	Sheet No. : 8162 1:100000	Rainfall:	3500
Northing/Long.:	146.033333333333	Runoff:	Very slow
Easting/Lat.:	-17.6	Drainage:	Moderately well drained

Geology

ExposureType:	No Data	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	QA	Substrate Material:	Unconsolidated material (unidentified)

Land Form

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

Surface Soil Condition (dry): Recently cultivated

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Acidic Dystrophic Red Dermosol		Principal Profile Form:	Gn3.71
ASC Confidence:		Great Soil Group:	No suitable group
All necessary analytical data are available.			

Site Disturbance: Cultivation. Rainfed

Vegetation:

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

Ap	0 - 0.1 m	Brown (10YR4/3-Moist); ; Light clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Moist; Weak consistence; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Nodules;
Ap	0.1 - 0.2 m	Brown (10YR4/3-Moist); ; Light clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Moist; Weak consistence; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Nodules;
Ap	0.2 - 0.3 m	Brown (10YR4/3-Moist); ; 7.5YR54, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Light clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Moist; Weak consistence; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; Clear change to -
B1	0.4 - 0.6 m	Yellowish red (5YR5/6-Moist); ; Medium clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Moist; Weak consistence; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Concretions; Diffuse change to -
B2	0.6 - 0.9 m	Red (2.5YR4/6-Moist); ; Medium clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Wet; Moderately plastic; Normal plasticity; Few (2 - 10 %), Ferromanganiferous, Medium (2 -6 mm), Concretions; Diffuse change to -
BC	0.9 - 1.2 m	Red (2.5YR4/6-Moist); ; 7.5YR66, 2-10% , 0-5mm, Faint; , 2-10% , 0-5mm, Faint; Medium clay; Strong grade of structure, 10-20 mm, Subangular blocky; Wet; Moderately plastic; Normal plasticity; Few (2 - 10 %), Ferromanganiferous, Medium (2 -6 mm), Concretions;
BC	1.2 - 1.5 m	Yellowish red (5YR5/8-Moist); , 10YR68, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Medium clay; Strong grade of structure, 10-20 mm, Subangular blocky; Moist; Weak consistence; Few (2 - 10 %), Ferromanganiferous, Medium (2 -6 mm), Concretions;
BC	1.5 - 1.8 m	Yellowish red (5YR5/8-Moist); , 10YR68, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Medium clay; Strong grade of structure, 10-20 mm, Subangular blocky; Moist; Weak consistence;

Morphological Notes

Observation Notes

FREE WATER IN PROFIE FROM 60-120CM

Site Notes

MOURILYAN

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Laboratory Analyses Completed for this profile

10A1	Total sulfur - X-ray fluorescence
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
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
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 H ₂ SO ₄ (BSES)
MIN_EC	Exchange Capacity - Mineralogy
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 (%)
XRD_C_Ch2	Chloritized 2:1 minerals - X-Ray Diffraction
XRD_C_Gb	Gibbsite - X-Ray Diffraction
XRD_C_Gt	Geothite - X-Ray Diffraction
XRD_C_II	Illite - X-Ray Diffraction
XRD_C_K2O	K ₂ O - X-Ray Diffraction or Clay Fraction (air dry)
XRD_C_Ka	Kaolin - X-Ray Diffraction