

Project Name: Regional
Project Code: REG **Site ID:** T357 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	M.G. Cannon	Locality:	
Date Desc.:	05/12/85	Elevation:	No Data
Map Ref.:	Sheet No. : 8061 1:100000	Rainfall:	4000
Northing/Long.:	145.933333333333	Runoff:	No runoff
Easting/Lat.:	-18.0583333333333	Drainage:	Very poorly drained

Geology

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

Land Form

Rel/Slope Class:	Level plain <9m <1%	Pattern Type:	Flood plain
Morph. Type:	Closed Depression	Relief:	No Data
Elem. Type:	Swamp	Slope Category:	Level
Slope:	<1 %	Aspect:	No Data

Surface Soil Condition (dry): Soft

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Humose Dermosolic Redoxic Hydrosol		Principal Profile Form:	Dg4.11
ASC Confidence:		Great Soil Group:	Humic gley

Analytical data are incomplete but reasonable confidence.

Site Disturbance: No effective disturbance. Natural

Vegetation:

Tall Strata - Tree, 12.01-20m, Mid-dense. *Species includes - Tristania saueolens

Surface Coarse Fragments:

Profile Morphology

A11	0 - 0.1 m	Black (10YR2/1-Moist); ; Loam (Sapric); Massive grade of structure; Weak grade of structure, Cast; Earthy fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Very weak consistence; Common, fine (1-2mm) roots;
	0.1 - 0.2 m	Black (10YR2/1-Moist); ; Loam (Sapric); Massive grade of structure; Weak grade of structure, Cast; Earthy fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Very weak consistence; Common, fine (1-2mm) roots; Diffuse change to -
A12	0.2 - 0.3 m	Black (10YR2/1-Moist); ; Loam (Sapric); Weak grade of structure, 10-20 mm, Prismatic; Weak grade of structure, Cast; Earthy fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Very weak consistence; Common, fine (1-2mm) roots;
	0.3 - 0.42 m	Black (10YR2/1-Moist); ; Loam (Sapric); Weak grade of structure, 20-50 mm, Prismatic; Weak grade of structure, Cast; Earthy fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Very weak consistence; Common, fine (1-2mm) roots; Clear change to -
B1	0.42 - 0.5 m	Dark greyish brown (10YR4/2-Moist); , 10YR68, 0-2% , 0-5mm, Faint; , 0-2% , 0-5mm, Faint; Silty light clay; Moderate grade of structure, 20-50 mm, Prismatic; Moderate grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Firm consistence; Few, very fine (0-1mm) roots; Sharp change to -
B21	0.5 - 0.77 m	Light brownish grey (10YR6/2-Moist); , 10YR68, 20-50% , 5-15mm, Distinct; , 20-50% , 5-15mm, Distinct; Silty medium clay; Moderate grade of structure, 20-50 mm, Prismatic; Strong grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Firm consistence; Few, very fine (0-1mm) roots; Diffuse change to -
B22	0.77 - 1.13 m	Light grey (10YR7/2-Moist); , 7.5YR58, 2-10% , 5-15mm, Distinct; , 2-10% , 5-15mm, Distinct; Silty medium clay; Moderate grade of structure, 20-50 mm, Prismatic; Strong grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Firm consistence; Few, very fine (0-1mm) roots; Clear change to -
D1	1.13 - 1.38 m	Greyish brown (10YR5/2-Moist); , 10YR41, 10-20% , 15-30mm, Distinct; , 10-20% , 15-30mm, Distinct; Sandy medium clay; Massive grade of structure; Earthy fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Very weak consistence; Few, very fine (0-1mm) roots; Gradual change to -

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D2	1.38 - 1.5 m	Light grey (10YR7/2-Moist); , 10YR68, 0-2% , 0-5mm, Faint; , 0-2% , 0-5mm, Faint; Clay loam, sandy; Massive grade of structure; Earthy fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Very weak consistence; Clear change to -
D3	1.5 - 1.86 m	Light grey (2.5Y7/1-Moist); , 10YR68, 20-50% , 5-15mm, Prominent; , 2.5YR46, 20-50% , 5-15mm, Prominent; Heavy clay; Strong grade of structure, 10-20 mm, Columnar; Strong grade of structure, 2-5 mm, Angular blocky; Smooth-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Firm consistence;

Morphological Notes

Observation Notes

Site Notes

LOWER TULLY

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Laboratory Analyses Completed for this profile

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
2A1	Air-dry moisture content
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
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)
9H1	Phosphate retention
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 (%)