

Project Name: Regional
Project Code: REG **Site ID:** T397 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	M.D. Laffan	Locality:	
Date Desc.:	10/10/84	Elevation:	No Data
Map Ref.:	Sheet No. : 7963 1:100000	Rainfall:	1400
Northing/Long.:	145.463888888889	Runoff:	No Data
Easting/Lat.:	-17.316666666667	Drainage:	Poorly drained

Geology

Exposure Type:	Undisturbed soil core	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	QA	Substrate Material:	Undisturbed soil core, Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	Level plain <9m <1%	Pattern Type:	No Data
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	Plain	Slope Category:	No Data
Slope:	<1 %	Aspect:	0 degrees

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Melacic Dermosolic Redoxic Hydrosol		Principal Profile Form:	Uf6.41
ASC Confidence:		Great Soil Group:	Humic gley

All necessary analytical data are available.

Site Disturbance: No effective disturbance. Natural

Vegetation: Low Strata - Sod grass, , . *Species includes - None recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.1 m	Black (10YR2/1-Moist); , 2.5YR36, 2-10% , 0-5mm, Faint; , 2-10% , 0-5mm, Faint; Silty light clay (Heavy); Moderate grade of structure, 10-20 mm, Polyhedral; Moderate grade of structure, 5-10 mm, Granular; Smooth-ped fabric; Moist; Firm consistence; Many, fine (1-2mm) roots;
A11	0.1 - 0.2 m	Black (10YR2/1-Moist); , 2.5YR36, 2-10% , 0-5mm, Faint; , 2-10% , 0-5mm, Faint; Silty light clay (Heavy); Moderate grade of structure, 10-20 mm, Polyhedral; Moderate grade of structure, 5-10 mm, Granular; Smooth-ped fabric; Moist; Firm consistence; Many, fine (1-2mm) roots; Gradual, Smooth change to -
A12	0.2 - 0.3 m	Very dark grey (10YR3/1-Moist); , 2.5YR36, 10-20% , 0-5mm, Distinct; , 10-20% , 0-5mm, Distinct; Silty light clay (Heavy); Moderate grade of structure, 10-20 mm, Subangular blocky; Moderate grade of structure, 5-10 mm, Granular; Smooth-ped fabric; Moist; Firm consistence; Many, fine (1-2mm) roots; Gradual, Smooth change to -
AB	0.3 - 0.4 m	Dark grey (10YR4/1-Moist); , 2.5YR36, 20-50% , 0-5mm, Distinct; , 20-50% , 0-5mm, Distinct; Silty medium clay; Moderate grade of structure, 20-50 mm, Prismatic; Moderate grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Moist; Firm consistence; Common, fine (1-2mm) roots; Gradual, Smooth change to -
B1g	0.4 - 0.6 m	Grey (10YR5/1-Moist); , 7.5YR58, 20-50% , 0-5mm, Distinct; , 20-50% , 0-5mm, Distinct; Medium clay; Strong grade of structure, 20-50 mm, Prismatic; Moderate grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Moist; Firm consistence; Common, very fine (0-1mm) roots;
B1g	0.6 - 0.75 m	Grey (10YR5/1-Moist); , 7.5YR58, 20-50% , 0-5mm, Distinct; , 20-50% , 0-5mm, Distinct; Medium clay; Strong grade of structure, 20-50 mm, Prismatic; Moderate grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Moist; Firm consistence; Common, very fine (0-1mm) roots; Gradual, Smooth change to -
B2g	0.75 - 0.9 m	Greyish brown (10YR5/2-Moist); , 7.5YR58, 20-50% , 0-5mm, Distinct; , 20-50% , 0-5mm, Distinct; Sandy medium clay; Moderate grade of structure, 20-50 mm, Prismatic; Moderate grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Moist; Firm consistence; Few cutans, <10% of ped faces or walls coated, faint; Few, very fine (0-1mm) roots;

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B2g	0.9 - 1.2 m	Greyish brown (10YR5/2-Moist); , 7.5YR58, 20-50% , 0-5mm, Distinct; , 20-50% , 0-5mm, Distinct; Sandy medium clay; Moderate grade of structure, 20-50 mm, Prismatic; Moderate grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Moist; Firm consistence; Few cutans, <10% of ped faces or walls coated, faint; Few, very fine (0-1mm) roots; Gradual, Wavy change to -
B3g	1.2 - 1.5 m	Grey (10YR6/1-Moist); , 7.5YR58, 20-50% , 5-15mm, Distinct; , 20-50% , 5-15mm, Distinct; Sandy light clay (Light); Moderate grade of structure, 20-50 mm, Prismatic; Moderate grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Moist; Very firm consistence; 2-10%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Few, very fine (0-1mm) roots;
B3g	1.5 - 1.8 m	Grey (10YR6/1-Moist); , 7.5YR58, 20-50% , 5-15mm, Distinct; , 20-50% , 5-15mm, Distinct; Sandy light clay (Light); Moderate grade of structure, 20-50 mm, Prismatic; Moderate grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Moist; Very firm consistence; 2-10%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Few, very fine (0-1mm) roots;
B3g	1.8 - 1.9 m	Grey (10YR6/1-Moist); , 7.5YR58, 20-50% , 5-15mm, Distinct; , 20-50% , 5-15mm, Distinct; Sandy light clay (Light); Moderate grade of structure, 20-50 mm, Prismatic; Moderate grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Moist; Very firm consistence; 2-10%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Few, very fine (0-1mm) roots; Clear, Wavy change to -
2Bgb	1.9 - 2.1 m	Grey (10YR5/1-Moist); , 7.5YR58, 20-50% , 5-15mm, Distinct; , 20-50% , 5-15mm, Distinct; Silty light clay (Heavy); Moderate grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Moist; Very firm consistence; Few cutans, <10% of ped faces or walls coated, faint; Few, very fine (0-1mm) roots;

Morphological Notes

Observation Notes

PARENT MATERIAL RECENT ALLUVIUM FROM RHYOLITE AN MINOR GRANITE OVERLYING GRANITIC ALLUVIUM AT 75CM:

Site Notes

CARRINGTON

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[illegible]

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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
2A1	Air-dry moisture content
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
4C1	pH of 1:5 soil/1M potassium chloride extract - direct
5A2	Chloride - 1:5 soil/water extract, automated colour
6B3	Total organic carbon - high frequency induction furnace, infrared
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)
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 (%)