

Project Name: Regional
Project Code: REG **Site ID:** T193 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.G. Murtha	Locality:	Approx 1.8KM west of Granite Vale:
Date Desc.:	26/11/70	Elevation:	90 metres
Map Ref.:	Sheet No. : 8259 1:100000	Rainfall:	890
Northing/Long.:	146.618888888889	Runoff:	Moderately rapid
Easting/Lat.:	-19.4769444444445	Drainage:	Moderately well drained

Geology

ExposureType:	Undisturbed soil core	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 fan
Morph. Type:	Simple-slope	Relief:	0 metres
Elem. Type:	Fan	Slope Category:	Very gently sloped
Slope:	1 %	Aspect:	No Data

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Bleached-Ferric Mesotrophic Grey Kandosol		Principal Profile Form:	Gn2.84
ASC Confidence:		Great Soil Group:	Grey earth

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
Tall Strata - Tree, 3.01-6m, Sparse. *Species includes - Melaleuca viridiflora, Eucalyptus polycarpa

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Greyish brown (10YR5/2-Moist); ; Sandy loam (Light); Massive grade of structure; Moist; Very weak consistence; 0-2%, medium gravelly, 6-20mm, Gravel, coarse fragments; Few (2 - 10 %), Ferromanganiferous, Very coarse (20 - 60 mm), Nodules;
A21	0.1 - 0.2 m	Light brownish grey (10YR6/2-Moist); ; Loamy sand; Massive grade of structure; Moist; Very weak consistence; 0-2%, Gravel, coarse fragments;
A2	0.2 - 0.3 m	Light brownish grey (10YR6/2-Moist); White (10YR8/2-Dry); , N60, 2-10% ; , 2-10% ; Loamy sand; Massive grade of structure; Moist; Very weak consistence; 0-2%, medium gravelly, 6-20mm, Gravel, coarse fragments; Gradual change to -
B1	0.3 - 0.45 m	Light brownish grey (10YR6/2-Moist); , 10YR56, 2-10% ; , 2-10% ; Loamy sand (Heavy); Massive grade of structure; Moderately moist; Weak consistence; 0-2%, medium gravelly, 6-20mm, Gravel, coarse fragments; Diffuse change to -
B2	0.45 - 0.6 m	Pale brown (10YR6/3-Moist); , 10YR48, 2-10% , 5-15mm, Distinct; , 2-10% , 5-15mm, Distinct; Sandy clay loam; Massive grade of structure; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Very firm consistence; 0-2%, medium gravelly, 6-20mm, Quartz, coarse fragments; Few (2 - 10 %), Ferromanganiferous, Medium (2 -6 mm), Nodules;
B2	0.6 - 0.75 m	Pale brown (10YR6/3-Moist); , 10YR48, 2-10% , 5-15mm, Distinct; , 2-10% , 5-15mm, Distinct; Sandy clay loam; Massive grade of structure; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Very firm consistence; 0-2%, medium gravelly, 6-20mm, Quartz, coarse fragments; Few (2 - 10 %), Ferromanganiferous, Medium (2 -6 mm), Nodules;
B2	0.75 - 0.9 m	Light brownish grey (2.5Y6/2-Moist); , 10YR58, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Sandy clay loam (Heavy); Massive grade of structure; Dry; Very firm consistence; 0-2%, Gravel, coarse fragments; Few (2 - 10 %), Ferromanganiferous, Coarse (6 - 20 mm), Nodules;
B2	0.9 - 1.2 m	Light brownish grey (2.5Y6/2-Moist); , 10YR58, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Sandy light clay; Weak grade of structure, 10-20 mm, Angular blocky; Dry; Very firm consistence; 0-2%, Gravel, coarse fragments; Few (2 - 10 %), Ferromanganiferous, Coarse (6 - 20 mm), Nodules;

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	1.2 - 1.5 m	Grey (10YR6/1-Moist); , 10YR58, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Light clay; Weak grade of structure, 10-20 mm, Angular blocky; Many (>5 per 100mm2) Fine (1-2mm) macropores, Very firm consistence; 0-2%, Gravel, coarse fragments; Many (20 - 50 %), Ferromanganiferous, Coarse (6 - 20 mm), Nodules;
BC	1.5 - 1.8 m	Grey (10YR6/1-Moist); , 10YR58, 10-20% , 5-15mm, Distinct; , 5YR58, 10-20% , 5-15mm, Distinct; Light clay; Weak grade of structure, 10-20 mm, Angular blocky; Dry; Very firm consistence; 2-10%, angular, Gravel, coarse fragments; Few (2 - 10 %), Ferromanganiferous, Coarse (6 - 20 mm), Nodules;

Morphological Notes

Observation Notes

10-20CM A1 MATERIAL DOWN WORM CASTS:20-30CM SOME GLEYED PATCHES:

Site Notes

GRANITE VALE

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg	Acidity		%
0 - 0.1	6D 6.1A	0.029A	1.9B	0.7	0.16	0.12		2.7C	4.44
0.1 - 0.2	6A	0.017A							
0.2 - 0.3	6A	0.023A	0.4B	0.3	0.16	0.12		1.2C	10.00
0.3 - 0.45	6.1A	0.021A							
0.45 - 0.6	6.1A	0.02A	1.2B	1.3	0.19	0.16		2.6C	6.15
0.6 - 0.75	6.1A	0.017A							
0.75 - 0.9	6.2A	0.014A							
0.9 - 1.2	6A	0.032A	0.6B	2.5	0.21	0.32		3.9C	8.21
1.2 - 1.5	6A	0.023A							
1.5 - 1.8	6A	0.023A							

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Laboratory Analyses Completed for this profile

10A1	Total sulfur - X-ray fluorescence
13C1_AL	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
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
15D1_CEC	CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
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
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 (%)