

**Project Name:** Regional  
**Project Code:** REG **Site ID:** T194 **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (QLD)

#### Site Information

<b>Desc. By:</b> G.G. Murtha	<b>Locality:</b> Approx 4KM north west of Granite Vale:
<b>Date Desc.:</b> 26/11/70	<b>Elevation:</b> 107 metres
<b>Map Ref.:</b> Sheet No. : 8259 1:100000	<b>Rainfall:</b> 890
<b>Northing/Long.:</b> 146.597777777778	<b>Runoff:</b> Moderately rapid
<b>Easting/Lat.:</b> -19.445833333333	<b>Drainage:</b> Moderately well drained

#### Geology

<b>ExposureType:</b> Undisturbed soil core	<b>Conf. Sub. is Parent. Mat.:</b> No Data
<b>Geol. Ref.:</b> Qa	<b>Substrate Material:</b> No Data

#### Land Form

<b>Rel/Slope Class:</b> Gently undulating rises 9-30m 1-3%	<b>Pattern Type:</b> Alluvial fan
<b>Morph. Type:</b> Mid-slope	<b>Relief:</b> 12 metres
<b>Elem. Type:</b> Fan	<b>Slope Category:</b> Gently inclined
<b>Slope:</b> 5 %	<b>Aspect:</b> No Data

**Surface Soil Condition (dry):** Firm

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b> N/A
Mottled Eutrophic Yellow Kandosol	<b>Principal Profile Form:</b> Gn2.24
<b>ASC Confidence:</b>	<b>Great Soil Group:</b> Yellow earth

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 - None recorded  
 Mid Strata - Tree, 3.01-6m, Very sparse. \*Species includes - Melaleuca viridiflora  
 Tall Strata - Tree, 6.01-12m, Very sparse. \*Species includes - Eucalyptus drepanophylla, Eucalyptus tessellaris, Eucalyptus dichromophloia

**Surface Coarse Fragments:** No surface coarse fragments

#### Profile Morphology

A1	0 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); ; Sandy loam; Massive grade of structure; Moist; Very weak consistence; 0-2%, Quartz, coarse fragments; Gradual change to -
A2	0.1 - 0.2 m	Brown (10YR4/3-Moist); Pale brown (10YR6/3-Dry); ; Sandy loam; Massive grade of structure; Moist; Very weak consistence; 0-2%, Quartz, coarse fragments; Gradual change to -
B1	0.2 - 0.3 m	Yellowish brown (10YR5/6-Moist); ; Sandy loam (Heavy); Massive grade of structure; Moist; Weak consistence; 0-2%, Quartz, coarse fragments; Gradual change to -
B2	0.3 - 0.45 m	Brownish yellow (10YR6/6-Moist); ; Clay loam; Massive grade of structure; Moist; Weak consistence; 0-2%, Quartz, coarse fragments;
B2	0.45 - 0.6 m	Brownish yellow (10YR6/6-Moist); ; Clay loam; Massive grade of structure; Moist; Weak consistence; 0-2%, Quartz, coarse fragments; Diffuse change to -
B2	0.6 - 0.9 m	Yellowish brown (10YR5/8-Moist); ; 5YR48, 2-10% , 5-15mm, Distinct; , 2-10% , 5-15mm, Distinct; Clay loam; Massive grade of structure; Moderately moist; Firm consistence; 0-2%, Quartz, coarse fragments; Gradual change to -
D	0.9 - 1.2 m	Yellowish brown (10YR5/8-Moist); , 10YR61, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Sandy medium clay; Massive grade of structure; Dry; Very firm consistence; 2-10%, medium gravelly, 6-20mm, Quartz, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; Clear change to -
D	1.2 - 1.5 m	Grey (10YR6/1-Moist); , 10YR56, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Dry; Very firm consistence; 2-10%, fine gravelly, 2-6mm, Quartz, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Nodules;
	1.5 - 1.8 m	Grey (10YR6/1-Moist); , 10YR56, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Very firm consistence; 2-10%, fine gravelly, 2-6mm, Quartz, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Nodules;

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**Observation Notes**

10-20CM A1 DOWN WORM CASTS:20-30CM MUCH MIXING OF A1+A2:

**Site Notes**

GRANTIE VALE

**Morphological Notes**

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[illegible]

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**Laboratory Analyses Completed for this profile**

13C1_AL	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
15A2_CA	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 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
2A1	Air-dry moisture content
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
9B_9C	Available P (mg/kg) - Bicarbonate P - 0.5M NaHCO <sub>3</sub> extractable
9G_BSES	Available P (mg/kg) - Acid P - 0.005M H <sub>2</sub> SO <sub>4</sub> (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 (%)