

**Project Name:** Regional  
**Project Code:** REG **Site ID:** T236 **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (QLD)

#### Site Information

<b>Desc. By:</b>	G.G. Murtha	<b>Locality:</b>	On road to TV stations 7.3KM from Flinders Highway:
<b>Date Desc.:</b>	18/01/78	<b>Elevation:</b>	442 metres
<b>Map Ref.:</b>	Sheet No. : 8259 1:100000	<b>Rainfall:</b>	1200
<b>Northing/Long.:</b>	146.791666666667	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	-19.35	<b>Drainage:</b>	No Data

#### Geology

<b>ExposureType:</b>	Existing vertical exposure	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	C-Pv	<b>Substrate Material:</b>	Existing vertical exposure, 0.8 m deep, Andesite

#### Land Form

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	Mountains
<b>Morph. Type:</b>	No Data	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	No Data
<b>Slope:</b>	0 %	<b>Aspect:</b>	No Data

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

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Haplic Eutrophic Red Chromosol		<b>Principal Profile Form:</b>	Dr2.12
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	N/A
All necessary analytical data are available.			

**Site Disturbance:** No effective disturbance. Natural

**Vegetation:** Low Strata - Tussock grass, 0.51-1m, Mid-dense. \*Species includes - None recorded  
Tall Strata - Tree, 6.01-12m, Sparse. \*Species includes - Eucalyptus drepanophylla, Eucalyptus polycarpa

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

#### Profile Morphology

A1	0 - 0.1 m	Very dark brown (10YR2/2-Moist); ; Loam; Moderate grade of structure, 5-10 mm, Angular blocky; Moist; Weak consistence; 2-10%, coarse gravelly, 20-60mm, Gravel, coarse fragments; Abundant
B1	0.1 - 0.2 m	Reddish brown (5YR4/4-Moist); ; Medium clay; Strong grade of structure, 10-20 mm, Angular blocky; Moist; Very firm consistence; 2-10%, coarse gravelly, 20-60mm, Gravel, coarse fragments; CommonClear change to -
B2	0.2 - 0.3 m	Yellowish red (5YR4/6-Moist); ; Medium clay; Strong grade of structure, 10-20 mm, Angular blocky; Moist; Very firm consistence; 2-10%, coarse gravelly, 20-60mm, Gravel, coarse fragments; Few (2 - 10 %), Unidentified, Fine (0 - 2 mm), Nodules;
B2	0.3 - 0.45 m	Yellowish red (5YR4/6-Moist); ; Medium clay; Strong grade of structure, 10-20 mm, Angular blocky; Moist; Very firm consistence;
BC	0.45 - 0.6 m	Reddish brown (5YR4/4-Moist); ; Medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moist; Very firm consistence; 20-50%, fine gravelly, 2-6mm, Andesite, coarse fragments; Gradual change to -
BC	0.6 - 0.8 m	Reddish brown (5YR4/4-Moist); ; Medium clay; 50-90%, large Boulders, >2m, Andesite, coarse fragments;

#### Morphological Notes

#### Observation Notes

WEATHERED PM STARTING AT 40CM:60-80CM (.5CM-4CM) ANDESITE GV SET IN MATRIX OF rB MC:

#### Site Notes

MT STUART

**Observation ID: 1**

[illegible]

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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
15E1_CA	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) 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
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 (%)