

Project Name: Regional
Project Code: REG **Site ID:** T221 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: G.G. Murtha **Locality:** 2.1KM east along track from Rocky Springs Homestead:
Date Desc.: 06/12/73 **Elevation:** 61 metres
Map Ref.: Sheet No. : 8259 1:100000 **Rainfall:** 1140
Northing/Long.: 146.891666666667 **Runoff:** Rapid
Easting/Lat.: -19.3791666666667 **Drainage:** Well drained

Geology

ExposureType: Undisturbed soil core **Conf. Sub. is Parent. Mat.:** No Data
Geol. Ref.: C-Pv **Substrate Material:** Undisturbed soil core, 1.2 m deep, Andesite

Land Form

Rel/Slope Class: Gently undulating rises 9-30m **Pattern Type:** Rises
 1-3%
Morph. Type: Mid-slope **Relief:** 12 metres
Elem. Type: Hillslope **Slope Category:** Gently inclined
Slope: 3 % **Aspect:** No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification: **Mapping Unit:** N/A
 Ferric Eutrophic Red Dermosol **Principal Profile Form:** Dr2.22
ASC Confidence: **Great Soil Group:** Non-calcic brown soil
 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
 Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - Eucalyptus drepanophylla, Eucalyptus alba,

Eucalyptus

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Very dark grey (5YR3/1-Moist); ; Loam (Heavy); Weak grade of structure, 5-10 mm, Angular blocky; Dry; Very firm consistence; 0-2%, medium gravelly, 6-20mm, Gravel, coarse fragments; Gradual change to -
A2	0.1 - 0.16 m	Dark reddish grey (5YR4/2-Moist); ; Loam (Heavy); Weak grade of structure, 5-10 mm, Angular blocky; Moderately moist; Firm consistence; Many (20 - 50 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules; Clear change to -
B21	0.16 - 0.2 m	Dark red (2.5YR3/6-Moist); ; Light medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moist; Very firm consistence; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Nodules;
B21	0.2 - 0.3 m	Dark red (2.5YR3/6-Moist); ; Light medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moist; Very firm consistence; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Nodules;
B22	0.3 - 0.6 m	Dark red (2.5YR3/6-Moist); ; Medium heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Moist; Very firm consistence; 0-2%, subrounded, Andesite, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Nodules;
B22	0.6 - 0.9 m	Yellowish red (5YR5/6-Moist); , 10YR63, 2-10% , 0-5mm, Faint; , 2-10% , 0-5mm, Faint; Medium heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moist; Very firm consistence;
BC	0.9 - 1.13 m	Yellowish red (5YR5/6-Moist); , 10YR62, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Medium heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moist; Very firm consistence;
C	1.13 - 1.2 m	;
C	1.2 - 1.5 m	;

Morphological Notes

C Soft weathered parent material (113-150CM):

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16-30CM A HORIZON MATERIAL DOWN WORM CASTS:60-113CM W'D PARENT MATERIALINCREASING DOWN PROFILE:

Site Notes

ROCKY SPRINGS

Observation Notes

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[illegible]

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Laboratory Analyses Completed for this profile

10A1	Total sulfur - X-ray fluorescence
12_HF_CU	Total element - Cu(mg/kg) - HF/HClO ₄ Digest
12_HF_ZN	Total element - Zn(mg/kg) - HF/HClO ₄ Digest
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
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
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
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 (%)