

Project Name: Regional
Project Code: REG **Site ID:** T405 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: M.D. Laffan **Locality:** Southeren side Kennedy Highway:between Hypipamee Crater National Park aand Herberton Road turn-off:
Date Desc.: 17/10/84 **Elevation:** No Data
Map Ref.: Sheet No. : 7963 1:100000 **Rainfall:** 1600
Northing/Long.: 145.476388888889 **Runoff:** No Data
Easting/Lat.: -17.447777777778 **Drainage:** Well drained

Geology

ExposureType: Undisturbed soil core **Conf. Sub. is Parent. Mat.:** No Data
Geol. Ref.: PI **Substrate Material:** Rhyolite

Land Form

Rel/Slope Class: Rolling hills 90-300m 10-32% **Pattern Type:** No Data
Morph. Type: No Data **Relief:** No Data
Elem. Type: Hillslope **Slope Category:** No Data
Slope: 10 % **Aspect:** No Data

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification: **Mapping Unit:** N/A
 Acidic Magnesic Red Dermosol **Principal Profile Form:** Gn3.14
ASC Confidence: **Great Soil Group:** Red podzolic soil
 All necessary analytical data are available.

Site Disturbance: Limited clearing, for example selective logging

Vegetation:

Tall Strata - Tree, 12.01-20m, Closed or dense. *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

AB	0 - 0.1 m	Brown (7.5YR4/4-Moist); ; Clay loam; Strong grade of structure, 5-10 mm, Subangular blocky; Strong grade of structure, <2 mm, Granular; Smooth-ped fabric; Moderately moist; Weak consistence; Field pH 5.5 (pH meter); Many, fine (1-2mm) roots; Clear, Wavy change to -
B1	0.1 - 0.2 m	Yellowish red (5YR4/6-Moist); ; Light clay (Light); Moderate grade of structure, 10-20 mm, Subangular blocky; Strong grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Weak consistence; Field pH 5.5 (pH meter); Common, fine (1-2mm) roots; Gradual, Smooth change to -
B21	0.2 - 0.3 m	Yellowish red (5YR4/6-Moist); ; Light clay; Moderate grade of structure, 20-50 mm, Angular blocky; Strong grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Weak consistence; Few cutans, <10% of ped faces or walls coated, faint; Field pH 5.8 (pH meter); Common, fine (1-2mm) roots; Gradual, Smooth change to -
B22	0.3 - 0.5 m	Red (2.5YR4/6-Moist); ; Light medium clay; Strong grade of structure, 20-50 mm, Angular blocky; Strong grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Moist; Firm consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 5.5 (pH meter); Common, fine (1-2mm) roots; Gradual, Smooth change to -
B23	0.5 - 0.6 m	Dark red (2.5YR3/6-Moist); , 7.5YR56, 2-10% , 5-15mm, Distinct; , 2-10% , 5-15mm, Distinct; Medium heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Strong grade of structure, 2-5 mm, Angular blocky; Smooth-ped fabric; Moist; Very firm consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 5.5 (pH meter); Common, fine (1-2mm) roots;
B23	0.6 - 0.9 m	Dark red (2.5YR3/6-Moist); , 7.5YR56, 2-10% , 5-15mm, Distinct; , 2-10% , 5-15mm, Distinct; Medium heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Strong grade of structure, 2-5 mm, Angular blocky; Smooth-ped fabric; Moist; Very firm consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 5.5 (pH meter); Common, fine (1-2mm) roots; Gradual, Smooth change to -

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B24	0.9 - 1.2 m	Dark red (2.5YR3/6-Moist); , 7.5YR56, 2-10% , 15-30mm, Distinct; , 2-10% , 15-30mm, Distinct; Silty medium clay; Strong grade of structure, 20-50 mm, Angular blocky; Strong grade of structure, 2-5 mm, Angular blocky; Smooth-ped fabric; Moist; Very firm consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 5.5 (pH meter); Few, very fine (0-1mm) roots;
B24	1.2 - 1.5 m	Dark red (2.5YR3/6-Moist); , 7.5YR56, 2-10% , 15-30mm, Distinct; , 2-10% , 15-30mm, Distinct; Silty medium clay; Strong grade of structure, 20-50 mm, Angular blocky; Strong grade of structure, 2-5 mm, Angular blocky; Smooth-ped fabric; Moist; Very firm consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 5.5 (pH meter); Few, very fine (0-1mm) roots;
B24	1.5 - 1.8 m	Dark red (2.5YR3/6-Moist); , 7.5YR56, 2-10% , 15-30mm, Distinct; , 2-10% , 15-30mm, Distinct; Silty medium clay; Strong grade of structure, 20-50 mm, Angular blocky; Strong grade of structure, 2-5 mm, Angular blocky; Smooth-ped fabric; Moist; Very firm consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 5.5 (pH meter); Few, very fine (0-1mm) roots; Gradual, Smooth change to -
BC	1.8 - 2.1 m	Red (10R4/6-Moist); , 7.5YR56, 0-2% , 0-5mm, Distinct; , 0-2% , 0-5mm, Distinct; Silty medium clay; Strong grade of structure, 20-50 mm, Angular blocky; Moderate grade of structure, 2-5 mm, Angular blocky; Smooth-ped fabric; Moist; Very firm consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 5.5 (pH meter); Few, very fine (0-1mm) roots;
BC	2.1 - 2.4 m	Red (10R4/6-Moist); , 7.5YR56, 0-2% , 0-5mm, Distinct; , 0-2% , 0-5mm, Distinct; Silty medium clay; Strong grade of structure, 20-50 mm, Angular blocky; Moderate grade of structure, 2-5 mm, Angular blocky; Smooth-ped fabric; Moist; Very firm consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 5.5 (pH meter); Few, very fine (0-1mm) roots;
BC	2.4 - 2.7 m	Red (10R4/6-Moist); , 7.5YR56, 0-2% , 0-5mm, Distinct; , 0-2% , 0-5mm, Distinct; Silty medium clay; Strong grade of structure, 20-50 mm, Angular blocky; Moderate grade of structure, 2-5 mm, Angular blocky; Smooth-ped fabric; Moist; Very firm consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 5.5 (pH meter); Few, very fine (0-1mm) roots;
BC	2.7 - 2.95 m	Red (10R4/6-Moist); , 7.5YR56, 0-2% , 0-5mm, Distinct; , 0-2% , 0-5mm, Distinct; Silty medium clay; Strong grade of structure, 20-50 mm, Angular blocky; Moderate grade of structure, 2-5 mm, Angular blocky; Smooth-ped fabric; Moist; Very firm consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 5.5 (pH meter); Few, very fine (0-1mm) roots;

Morphological Notes

Observation Notes

PARENT MATERIAL VERY STRONGLY WEATHERED RHYOLITE:

Site Notes

HYIPMAEE CRAT

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[illegible]

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2.1 - 2.4
2.4 - 2.7
2.7 - 2.95

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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/HClO4 Digest
12_HF_FE	Total element - Fe(%) - HF/HClO4 Digest
12_HF_MN	Total element - Mn(mg/kg) - HF/HClO4 Digest
12_HF_ZN	Total element - Zn(mg/kg) - HF/HClO4 Digest
13C1_FE	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
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 (Ca2+,Mg2+,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 H2SO4 (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 (%)