

Project Name: Regional
Project Code: REG **Site ID:** T403 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: M.D. Laffan **Locality:** Adjacent to road crest on northern side of Kennedy Highway: between Hypipamee crater National Park & Herberton Rd. t'off:

Date Desc.: 15/10/84 **Elevation:** No Data
Map Ref.: Sheet No. : 7963 1:100000 **Rainfall:** 1600
Northing/Long.: 145.475 **Runoff:** No Data
Easting/Lat.: -17.447222222222 **Drainage:** Moderately well drained

Geology

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

Land Form

Rel/Slope Class: Undulating hills 90-300m 3- **Pattern Type:** No Data
Morph. Type: No Data **Relief:** No Data
Elem. Type: Hillcrest **Slope Category:** No Data
Slope: 3 % **Aspect:** No Data

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification: **Mapping Unit:** N/A
Magnesian Dermosolic Redoxic Hydrosol **Principal Profile Form:** Gn3.71
ASC Confidence: **Great Soil Group:** Xanthozem
All necessary analytical data are available.

Site Disturbance: No effective disturbance. Natural

Vegetation:

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

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Dark greyish brown (10YR4/2-Moist); ; Clay loam; Moderate grade of structure, 2-5 mm, Granular; Moderate grade of structure, <2 mm, Granular; Smooth-ped fabric; Moderately moist; Weak consistence; Field pH 5.5 (pH meter); Many, very fine (0-1mm) roots; Gradual, Smooth change to -
A3	0.1 - 0.2 m	Yellowish brown (10YR5/8-Moist); ; Silty light clay (Light); Moderate grade of structure, 5-10 mm, Polyhedral; Strong grade of structure, <2 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Weak consistence; Field pH 5.5 (pH meter); Common, very fine (0-1mm) roots; Gradual, Smooth change to -
B21	0.2 - 0.3 m	Yellowish brown (10YR5/8-Moist); ; Silty light clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moderate grade of structure, <2 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Firm consistence; 0-2%, medium gravelly, 6-20mm, subrounded, Sand, coarse fragments; Few cutans, <10% of ped faces or walls coated, distinct; Field pH 5.8 (pH meter); Common, very fine (0-1mm) roots;
B21	0.3 - 0.5 m	Yellowish brown (10YR5/8-Moist); ; Silty light clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moderate grade of structure, <2 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Firm consistence; 0-2%, medium gravelly, 6-20mm, subrounded, Sand, coarse fragments; Few cutans, <10% of ped faces or walls coated, distinct; Field pH 5.8 (pH meter); Common, very fine (0-1mm) roots; Gradual, Smooth change to -
B22	0.5 - 0.6 m	Yellowish red (5YR5/6-Moist); ; Medium clay; Strong grade of structure, 20-50 mm, Angular blocky; Moderate grade of structure, <2 mm, Subangular blocky; Smooth-ped fabric; Moist; Firm consistence; 2-10%, medium gravelly, 6-20mm, subrounded, Sand, coarse fragments; Few cutans, <10% of ped faces or walls coated, distinct; Field pH 6 (pH meter); Few, very fine (0-1mm) roots;
B22	0.6 - 0.75 m	Yellowish red (5YR5/6-Moist); ; Medium clay; Strong grade of structure, 20-50 mm, Angular blocky; Moderate grade of structure, <2 mm, Subangular blocky; Smooth-ped fabric; Moist; Firm consistence; 2-10%, medium gravelly, 6-20mm, subrounded, Sand, coarse fragments; Few cutans, <10% of ped faces or walls coated, distinct; Field pH 6 (pH meter); Few, very fine (0-1mm) roots; Diffuse change to -

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B23	0.75 - 0.9 m	Yellowish brown (10YR5/6-Moist); , 2.5YR46, 20-50% , 5-15mm, Distinct; , 20-50% , 5-15mm, Distinct; Silty medium clay; Strong grade of structure, 20-50 mm, Angular blocky; Strong grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Moist; Very firm consistence; 2-10%, medium gravelly, 6-20mm, subrounded, Sand, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 5.5 (pH meter); Few, very fine (0-1mm) roots;
B23	0.9 - 1.2 m	Yellowish brown (10YR5/6-Moist); , 2.5YR46, 20-50% , 5-15mm, Distinct; , 20-50% , 5-15mm, Distinct; Silty medium clay; Strong grade of structure, 20-50 mm, Angular blocky; Strong grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Moist; Very firm consistence; 2-10%, medium gravelly, 6-20mm, subrounded, Sand, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 5.5 (pH meter); Few, very fine (0-1mm) roots; Diffuse change to -
Bg	1.2 - 1.5 m	Light yellowish brown (10YR6/4-Moist); , 2.5YR46, 20-50% , 5-15mm, Prominent; , 10YR72, 20-50% , 5-15mm, Prominent; 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; 0-2%, medium gravelly, 6-20mm, subrounded, Sand, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 5.8 (pH meter); Few, very fine (0-1mm) roots; Diffuse change to -
BC	1.5 - 1.8 m	White (10YR8/1-Moist); , 2.5YR46, 10-20% , 5-15mm, Prominent; , 10-20% , 5-15mm, Prominent; 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; 0-2%, medium gravelly, 6-20mm, subrounded, Sand, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 5.5 (pH meter); Few, very fine (0-1mm) roots; Diffuse change to -
C1	1.8 - 1.95 m	White (10YR8/1-Moist); , 10R46, 10-20% , 5-15mm, Prominent; , 5YR58, 10-20% , 5-15mm, Prominent; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Moist; Very firm consistence; 0-2%, medium gravelly, 6-20mm, subrounded, Sand, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 5.5 (pH meter);

Morphological Notes

Observation Notes

YELLOW VARIANT:PARENT MATERIAL IS VERY STRONGLY WEATHERED RHYOLITE:

Site Notes

HYIPAMEE CRAT

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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/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 (%)