

Project Name: CL
Project Code: CL **Site ID:** B235 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

| | | | |
|------------------------|---------------------------|-------------------|------------------|
| Desc. By: | G.D. Hubble | Locality: | |
| Date Desc.: | 01/11/54 | Elevation: | 60 metres |
| Map Ref.: | Sheet No. : 9347 1:100000 | Rainfall: | 1143 |
| Northing/Long.: | 152.213333333333 | Runoff: | Moderately rapid |
| Easting/Lat.: | -25.022222222222 | Drainage: | Well drained |

Geology

| | | | |
|----------------------|----------------------------|------------------------------------|---------------------------------|
| ExposureType: | Existing vertical exposure | Conf. Sub. is Parent. Mat.: | No Data |
| Geol. Ref.: | Te | Substrate Material: | Auger boring, 2 m deep, No Data |

Land Form

| | | | |
|-------------------------|---------|------------------------|-----------|
| Rel/Slope Class: | No Data | Pattern Type: | Peneplain |
| Morph. Type: | No Data | Relief: | 8 metres |
| Elem. Type: | Plain | Slope Category: | No Data |
| Slope: | 5.25 % | Aspect: | No Data |

Surface Soil Condition (dry): Soft

Erosion:

Soil Classification

| | | | |
|--|--|--------------------------------|-------------------------|
| Australian Soil Classification: | | Mapping Unit: | N/A |
| Ferric Magnesic Red Chromosol | | Principal Profile Form: | Dr5.81 |
| ASC Confidence: | | Great Soil Group: | Lateritic podzolic soil |

All necessary analytical data are available.

Site Disturbance: No effective disturbance other than grazing by hoofed animals

Vegetation: Low Strata - Tussock grass, , Mid-dense. *Species includes - None recorded
Mid Strata - Shrub, , . *Species includes - Acacia aulacocarpa, Acacia cunninghamii

Tall Strata - Tree, 6.01-12m, Closed or dense. *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

| | | |
|-----|---------------|--|
| A1 | 0 - 0.13 m | Very dark grey (10YR3/1-Moist); ; Loamy coarse sand; Weak grade of structure, 10-20 mm, Angular blocky; Moist; Very weak consistence; 2-10%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Field pH 6 (pH meter); Common, very fine (0-1mm) roots; Gradual change to - |
| A21 | 0.2 - 0.64 m | Yellow (10YR7/5-Moist); ; Coarse sand; Single grain grade of structure; Moist; Very weak consistence; 2-10%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Field pH 6.1 (pH meter); Common, very fine (0-1mm) roots; Gradual change to - |
| A22 | 0.64 - 0.89 m | Very pale brown (10YR8/3-Moist); ; Coarse sand; Single grain grade of structure; Moist; Very weak consistence; 2-10%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), Nodules; Field pH 6.8 (pH meter); Few, very fine (0-1mm) roots; Gradual change to - |
| A23 | 0.89 - 1.24 m | Light grey (2.5Y7/2-Moist); ; Coarse sand; Single grain grade of structure; Moist; Very weak consistence; Very many (50 - 100 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Field pH 6.2 (pH meter); Few, very fine (0-1mm) roots; Clear change to - |
| B1 | 1.24 - 1.68 m | Dark red (2.5YR3/6-Moist); , 10YR83, 20-50% , 0-5mm, Prominent; , 10YR68, 20-50% , 0-5mm, Prominent; Coarse sandy clay loam (Heavy); Weak grade of structure, Angular blocky; Moist; Weak consistence; Many (20 - 50 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Field pH 6.1 (pH meter); Gradual change to - |
| B2 | 1.68 - 2.24 m | Red (2.5YR4/8-Moist); , 10YR82, 20-50% , 15-30mm, Prominent; , 10YR78, 20-50% , 15-30mm, Prominent; Coarse sandy clay loam (Heavy); Weak grade of structure, Angular blocky; Moist; Weak consistence; 2-10%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Very few (0 - 2 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Field pH 6.1 (pH meter); |

Morphological Notes

Observation Notes

Site Notes

ELLIOTT RIVER

Observation ID: 1

Laboratory Test Results:

| Depth | pH | 1:5 EC | Ca | Exchangeable Mg | Cations K | Na | Exchangeable Acidity | CEC | ECEC | ESP |
|-------------|------|--------|------|-----------------|-----------|--------------|----------------------|-----|------|-----|
| m | | dS/m | | | | Comol (+)/kg | | | | % |
| 0 - 0.13 | 6H | 0.011B | 3.4K | 1.2 | 0.04 | 0.06 | 7.9D | | | |
| 0.2 - 0.64 | 6.1H | 0.006B | | | | | | | | |
| 0.64 - 0.89 | 6.8H | 0.014B | | | | | | | | |
| 0.89 - 1.24 | 6.2H | 0.008B | | | | | | | | |
| 1.24 - 1.68 | 6.1H | 0.007B | | | | | | | | |
| 1.68 - 2.24 | 6.1H | 0.008B | 0.1K | 1.5 | 0.04 | 0.1 | 1.75D | | | |

| Depth | CaCO3 | Organic C | Avail. P | Total P | Total N | Total K | Bulk Density | Particle Size | | Analysis | |
|-------------|-------|-----------|----------|---------|---------|---------|--------------|---------------|-----|----------|-----------|
| m | % | % | mg/kg | % | % | % | Mg/m3 | GV | CS | FS | Silt Clay |
| 0 - 0.13 | | 2.22A | 4C | 0.005F | 0.08B | | | 3 | 59C | 28 | 4 5 |
| 0.2 - 0.64 | | | | | 0.02B | | | | | | |
| 0.64 - 0.89 | | 0.07A | | | | | | 7 | 60C | 30 | 8 3 |
| 0.89 - 1.24 | | | | | | | | | | | |
| 1.24 - 1.68 | | 0.05A | | | | | | 45 | 50C | 22 | 8 20 |
| 1.68 - 2.24 | | 0.03A | | | | | | 9 | 54C | 16 | 6 23 |

[illegible]

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Laboratory Analyses Completed for this profile

| | |
|-----------|--|
| 15_NR_CA | Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded |
| 15_NR_H | Hydrogen Cation - meq per 100g of soil - Not recorded |
| 15_NR_K | Exch. basic cations (K++) - meq per 100g of soil - Not recorded |
| 15_NR_MG | Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded |
| 15_NR_NA | Exch. basic cations (Na++) - meq per 100g of soil - Not recorded |
| 2A1 | Air-dry moisture content |
| 3_NR | Electrical conductivity or soluble salts - Not recorded |
| 4_NR | pH of soil - Not recorded |
| 5_NR | Water soluble Chloride - Cl(%) - Not recorded |
| 6A1 | Organic carbon - Walkley and Black |
| 7_NR | Total nitrogen (%) - Not recorded |
| 9_NR | Available P (mg/kg) - Not recorded |
| 9A_NR | Total element - P(%) - Not recorded |
| P10_GRAV | Gravel (%) |
| P10_NR_C | Clay (%) - Not recorded |
| P10_NR_CS | Coarse sand (%) - Not recorded |
| P10_NR_FS | Fine sand (%) - Not recorded |
| P10_NR_Z | Silt (%) - Not recorded |