Project Name: BL

Project Code: BL Site ID: B333 Observation ID: 1

Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: G.D. Hubble Locality:

Date Desc.:01/10/57Elevation:No DataMap Ref.:Sheet No.: 88411:100000Rainfall:0

Northing/Long.: 149.67777777778 Runoff: Moderately rapid Easting/Lat.: -28.191666666667 Drainage: Imperfectly drained

Geology

ExposureType: Soil pit Conf. Sub. is Parent. Mat.: No Data

Geol. Ref.: Qs Substrate Material: Auger boring, 3.8 m deep,Unconsolidated

material (unidentified)

Land Form

 Rel/Slope Class:
 No Data
 Pattern Type:
 Plain

 Morph. Type:
 No Data
 Relief:
 24 metres

 Elem. Type:
 Plain
 Slope Category:
 No Data

 Slope:
 0 %
 Aspect:
 No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:Mapping Unit:N/AHaplic Calcic Red ChromosolPrincipal Profile Form:Dr2.13

ASC Confidence: Great Soil Group: Red-brown earth

Analytical data are incomplete but reasonable confidence.

Site Disturbance: Limited clearing, for example selective logging

Vegetation: Low Strata - Tussock grass, .. *Species includes - Chloris species, Aristida species

Mid Strata - Tree, 3.01-6m, Closed or dense. *Species includes - Geijera parviflora

Tall Strata - Tree, 6.01-12m, Closed or dense. *Species includes - Acacia harpophylla, Casuarina cristata

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1 0 - 0.06 m Yellowish red (5YR4/5-Dry); ; Clay loam; Moderate grade of structure, 5-10 mm, Polyhedral; Many (>5 per 0.01m2) Coarse (>5mm) macropores, Dry; Very firm consistence; 0-2%, medium gravelly, 6-20mm, subangular, Substrate material, coarse fragments; Field pH 6.6 (pH meter); Many, very fine (0-1mm) roots; Clear change to -

many, very mile (e milin) reete, elear change te

B2 0.06 - 0.18 m Dark reddish brown (5YR3/4-Dry); ; Medium heavy clay; Strong grade of structure, 10-20 mm, Polyhedral; Dry; Strong consistence; 0-2%, medium gravelly, 6-20mm, subangular, Substrate

material, coarse fragments; Field pH 7.8 (pH meter); Many, very fine (0-1mm) roots; Gradual

change to -

B2 0.18 - 0.46 m Reddish brown (5YR4/3-Dry); Medium heavy clay; Strong grade of structure, 10-20 mm,

Polyhedral; Dry; Strong consistence; 0-2%, medium gravelly, 6-20mm, subangular, Substrate material, coarse fragments; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Soft segregations;

Field pH 8.9 (pH meter); Gradual change to -

B2 0.46 - 0.71 m Reddish brown (5YR4/4-Moist); ; Heavy clay; Moderate grade of structure, 10-20 mm,

Polyhedral; Moderately moist; Very firm consistence; 0-2%, medium gravelly, 6-20mm, subangular, Substrate material, coarse fragments; Very few (0 - 2%), Calcareous, Medium (2 - 6 mm), Soft segregations; Very few (0 - 2%), Gypseous, Crystals; Field pH 8.6 (pH meter);

Gradual change to -

B2 0.71 - 1.07 m Yellowish red (5YR5/6-Moist); ; Heavy clay; Moderate grade of structure, 10-20 mm,

Polyhedral; Moderately moist; Strong consistence; 0-2%, medium gravelly, 6-20mm, subangular, Substrate material, coarse fragments; Very few (0 - 2 %), Gypseous, , Crystals; Field pH 7.7

(pH meter); Gradual change to -

B2 1.07 - 1.47 m Yellowish red (5YR5/6-Moist); , 7.5YR52, 2-10% , 0-5mm, Faint; , 2-10% , 0-5mm, Faint; Heavy

clay; Moderate grade of structure, 10-20 mm, Polyhedral; Moderately moist; Strong consistence; 0-2%, medium gravelly, 6-20mm, subangular, Substrate material, coarse fragments; Field pH

4.8 (pH meter); Gradual change to -

B2 1.52 - 2.13 m Brownish yellow (10YR6/6-Moist); , 7.5YR56, 2-10% , 0-5mm, Prominent; , 2-10% , 0-5mm,

Prominent; Heavy clay; Moderate grade of structure, Polyhedral; Moderately moist; Very firm

consistence; Field pH 4.4 (pH meter); Gradual change to -

| Projec | ct Name: BL ct Code: BL cy Name: CS | |
|--------|---|--|
| B2 | 2.13 - 1.67 m | Yellowish brown (10YR5/6-Moist); , 10YR54, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Heavy clay; Moderate grade of structure, Polyhedral; Moderately moist; Very firm consistence; Field pH 4.3 (pH meter); Gradual change to - |
| B2 | 2.67 - 1.95 m | Yellowish brown (10YR5/6-Moist); , 2.5YR43, 20-50% , 15-30mm, Prominent; , 20-50% , 15-30mm, Prominent; Heavy clay; Moderate grade of structure, Polyhedral; Moderately moist; Very firm consistence; Field pH 4.4 (pH meter); Gradual change to - |
| В3 | 3.05 - 3.66 m | Dark yellowish brown (10YR4/6-Moist); , 10YR61, 20-50% , 15-30mm, Prominent; , 20-50% , 15-30mm, Prominent; Sandy medium clay; Massive grade of structure; Moderately moist; Very firm consistence; Field pH 4.6 (pH meter); Gradual change to - |
| С | 3.81 - 4.57 m | Dark reddish brown (2.5YR3/4-Moist); ; Sandy medium clay; Massive grade of structure; Moderately moist; Firm consistence; 2-10%, medium gravelly, 6-20mm, subrounded, Detrital sedimentary rock (unidentified), coarse fragments; Field pH 4.8 (pH meter); Gradual change to - |
| С | 4.62 - 5.08 m | Red (2.5YR4/8-Moist); ; Sandy clay loam; Massive grade of structure; Moderately moist; Firm consistence; 20-50%, medium gravelly, 6-20mm, subrounded, Detrital sedimentary rock (unidentified), coarse fragments; Field pH 4.5 (pH meter); Sharp change to - |
| D | 5.13 - 5.46 m | White (2.5Y8/2-Moist); , 10YR56, 20-50% , 15-30mm, Distinct; , 20-50% , 15-30mm, Distinct; Silty medium clay; Massive grade of structure; Moist; Very firm consistence; |

Morphological Notes

Observation Notes
BANK PROFILE:

Site Notes BUNGUNYA

B333 Observation ID: 1

Project Name: BL
Project Code: BL Site ID: B33
Agency Name: CSIRO Division of Soils (QLD)

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| Laboratory | Test Re | sults: | | | | | | | | | | |
|----------------------------|--------------|----------------|----------|--------------|-----------|------------|-------------|-------|---------|--------|----------|------|
| Depth | pН | 1:5 EC | | hangeable C | Cations | E | xchangeable | CEC | | ECEC | | SP |
| | | | Ca I | Иg | K | Na | Acidity | | | | | |
| m | | dS/m | | | | Cmol (+)/ | kg | | | | | % |
| 0 000 | 0.011 | 0.050 | | | | | | | | | | |
| 0 - 0.06 | 6.6H | 0.05C | | | | | | | | | | |
| 0.06 - 0.18 | 7.8H | 0.09C | | | | | | | | | | |
| 0.18 - 0.46 | 8.9H | 0.24C | | | | | | | | | | |
| 0.46 - 0.71 | 8.6H | 0.5C | | | | | | | | | | |
| 0.71 - 1.07 | 7.7H | 0.74C | | | | | | | | | | |
| 1.07 - 1.47 | 4.8H | 0.5C | | | | | | | | | | |
| 1.52 - 2.13 | 4.4H | 0.52C | | | | | | | | | | |
| 2.13 - 2.67 | 4.3H | 0.55C | | | | | | | | | | |
| 2.67 - 2.95 | 4.4H | 0.48C | | | | | | | | | | |
| 3.05 - 3.66 3.81 - 4.57 | 4.6H 4.8H | 0.23C 0.25C | | | | | | | | | | |
| | 4.6H | 0.25C 0.29C | | | | | | | | | | |
| 4.62 - 5.08 5.13 - 5.46 | 4.5H 4.6H | 0.29C 0.42C | | | | | | | | | | |
| 3.13 - 3.40 | 4.011 | 0.420 | | | | | | | | | | |
| | | | | | | | | | | | | |
| Depth | CaCO3 | Organic | Avail. | Total | Total | Total | Bulk | Pa | ırticle | Size A | Analysis | ; |
| | | С | P | Р | N | K | Density | GV | cs | FS | Silt | Clay |
| m | % | % | mg/kg | % | % | % | Mg/m3 | | | % | | |
| | | | | | | | | | | | | |
| 0 - 0.06 | | | 17C | 0.039F | | | | 1 | 9C | 52 | 10 | 28 |
| 0.06 - 0.18 | | 0.67E | | 0.033F | | | | 1 | 6C | 40 | 7 | 44 |
| 0.18 - 0.46 | | | | | | | | 1 | 5C | 36 | 11 | 43 |
| 0.46 - 0.71 | 4.8C | | | | | | | 1 | 4C | 38 | 12 | 43 |
| 0.71 - 1.07 | 1.5C | | | | | | | | 3C | 35 | 13 | 49 |
| 1.07 - 1.47 | | | | | | | | 0 | 3C | 32 | 12 | 52 |
| 1.52 - 2.13 | | | | | | | | 0 | 2C | 29 | 14 | 54 |
| 2.13 - 2.67 | | | | | | | | 0 | 1C | 25 | 15 | 57 |
| 2.67 - 2.95 | | | | | | | | | 4C | 34 | 13 | 51 |
| 3.05 - 3.66 | | | | | | | | | | | | |
| 3.81 - 4.57 | | | | | | | | 6 | 18C | 52 | 8 | 22 |
| 4.62 - 5.08 | | | | | | | | | | | | |
| 5.13 - 5.46 | | | | | | | | 24 | 2C | 30 | 24 | 46 |
| | | | | | | | | | | | | |
| Depth | COLE | | Grav | imetric/Volu | ımetric W | ater Conte | ents | | K sa | at | K unsat | : |
| | | Sat. | 0.05 Bar | | 0.5 Bar | 1 Bar | 5 Bar 1 | 5 Bar | | _ | _ | |
| m | | | | g/g | - m3/m3 | | | | mm | /h | mm/h | |
| | | | | | | | | | | | | |
| 0 - 0.06 | | | | | | | | | | | | |
| 0.06 - 0.18 | | | | | | | | | | | | |
| 0.18 - 0.46 | | | | | | | | | | | | |
| 0.46 - 0.71 | | | | | | | | | | | | |
| 0.71 - 1.07 | | | | | | | | | | | | |
| 1.07 - 1.47 | | | | | | | | | | | | |
| 1.52 - 2.13 | | | | | | | | | | | | |
| 2.13 - 2.67 | | | | | | | | | | | | |
| 2.67 - 2.95 | | | | | | | | | | | | |
| 3.05 - 3.66 | | | | | | | | | | | | |
| 3.81 - 4.57 | | | | | | | | | | | | |
| 4.62 - 5.08 | | | | | | | | | | | | |
| 5.13 - 5.46 | | | | | | | | | | | | |
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