

Project Name: WQR
Project Code: WQR **Site ID:** B138 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

| | | | |
|------------------------|---------------------------|-------------------|---------------------|
| Desc. By: | G.D. Hubble | Locality: | |
| Date Desc.: | 10/08/51 | Elevation: | 55 metres |
| Map Ref.: | Sheet No. : 7059 1:100000 | Rainfall: | 600 |
| Northing/Long.: | 140.872222222222 | Runoff: | Slow |
| Easting/Lat.: | -19.466666666667 | Drainage: | Imperfectly drained |

Geology

| | | | |
|----------------------|----------|------------------------------------|---|
| ExposureType: | Soil pit | Conf. Sub. is Parent. Mat.: | No Data |
| Geol. Ref.: | No Data | Substrate Material: | Auger boring, 1.8 m deep,Porous, Mudstone |

Land Form

| | | | |
|-------------------------|-----------------------------------|------------------------|----------------|
| Rel/Slope Class: | Gently undulating plains <9m 1-3% | Pattern Type: | Alluvial plain |
| Morph. Type: | No Data | Relief: | No Data |
| Elem. Type: | Plain | Slope Category: | No Data |
| Slope: | 0 % | Aspect: | No Data |

Surface Soil Condition (dry): Self-mulching

Erosion:

Soil Classification

| | | |
|--|--------------------------------|-----------|
| Australian Soil Classification: | Mapping Unit: | N/A |
| Epicalcareous-Endohypersodic Self-Mulching Grey Vertosol | Principal Profile Form: | Ug5.24 |
| ASC Confidence: | Great Soil Group: | Grey clay |
| All necessary analytical data are available. | | |

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

Vegetation:

Tall Strata - Tussock grass, 0.26-0.5m, Mid-dense. *Species includes - Astrebla species

Surface Coarse Fragments: 0-2%, , rounded, Quartz

Profile Morphology

| | | |
|----|---------------|---|
| AB | 0 - 0.1 m | Grey (10YR5/1-Moist); ; Heavy clay; Strong grade of structure, 5-10 mm, Angular blocky; Dry; Very firm consistence; 2-10%, coarse fragments; Very few (0 - 2 %), Calcareous, Medium (2 - 6 mm), Nodules; Field pH 7.7 (pH meter); Clear change to - |
| B2 | 0.1 - 0.53 m | Grey (10YR5/1-Moist); ; Heavy clay; Moderate grade of structure, Angular blocky; Dry; Very firm consistence; 2-10%, coarse fragments; Very few (0 - 2 %), Calcareous, Medium (2 - 6 mm), Nodules; Field pH 8 (pH meter); Gradual change to - |
| B2 | 0.53 - 1.22 m | Dark grey (10YR4/1-Moist); , 2.5Y42; Heavy clay; Moderate grade of structure, Lenticular; Moderately moist; Very firm consistence; 0-2%, coarse fragments; Very few (0 - 2 %), Calcareous, Medium (2 - 6 mm), Nodules; Very few (0 - 2 %), Gypseous, , Crystals; Field pH 7.7 (pH meter); Gradual change to - |
| B2 | 1.27 - 1.83 m | Greyish brown (10YR5/2-Moist); , 2.5Y53; Heavy clay; Moderate grade of structure, Lenticular; Moist; Weak consistence; 0-2%, coarse fragments; Very few (0 - 2 %), Calcareous, Medium (2 - 6 mm), Nodules; Very few (0 - 2 %), Gypseous, , Crystals; Field pH 7.8 (pH meter); Gradual change to - |
| C | 1.83 - 1.98 m | Brownish yellow (10YR6/8-Moist); ; Heavy clay; Massive grade of structure; Moist; Weak consistence; 10-20%, Mudstone, coarse fragments; Very few (0 - 2 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 8.6 (pH meter); |

Morphological Notes

Observation Notes

0-10CM GRANULAR GRADING TO BLOCKY STRUCTURE

Site Notes

CANOBIE

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Laboratory Test Results:

| Depth | pH | 1:5 EC | Ca | Exchangeable Mg | Cations K | Na | Exchangeable Acidity | CEC | ECEC | ESP |
|-------------|------|--------|-------|-----------------|-----------|-------------|----------------------|-----|-------|-----|
| m | | dS/m | | | | Cmol (+)/kg | | | | % |
| 0 - 0.1 | 7.7H | 0.02B | 23.9K | 6.7 | 0.3 | 0.35 | 1.22D | | 32.4E | |
| 0.1 - 0.53 | 8H | 0.08B | | | | | | | | |
| 0.53 - 1.22 | 7.7H | 2.36B | 11.1K | 8 | 0.28 | 6.3 | 0.34D | | 26E | |
| 1.27 - 1.83 | 7.8H | 1.92B | | | | | | | | |
| 1.83 - 1.98 | 8.6H | 0.59B | | | | | | | | |

| Depth | CaCO3 | Organic | Avail. | Total | Total | Total | Bulk | Particle | | Size | Analysis | |
|-------------|-------|---------|--------|--------|--------|-------|---------|----------|----|------|----------|------|
| m | % | C | P | P | N | K | Density | GV | CS | FS | Silt | Clay |
| | | % | mg/kg | % | % | % | Mg/m3 | | | % | | |
| 0 - 0.1 | 0.01C | 0.33E | 4C | 0.004F | 0.026B | | | 4 | 6C | 33 | 16 | 44 |
| 0.1 - 0.53 | 0.02C | 0.31E | 5C | | 0.022B | | | 5 | 6C | 33 | 17 | 43 |
| 0.53 - 1.22 | 0.23C | 0.26E | 2C | 0.005F | 0.016B | | | | 6C | 29 | 19 | 44 |
| 1.27 - 1.83 | 0.08C | | 41C | | | | | 2 | 4C | 27 | 21 | 48 |
| 1.83 - 1.98 | 0.04C | | 363C | 0.047F | | | | 3 | 1C | 44 | 20 | 34 |

[illegible]

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Laboratory Analyses Completed for this profile

| | |
|-----------|--|
| 15_NR | Sum of Ex. cations + Ex. acidity - Not recorded |
| 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 |
| 19B_NR | Calcium Carbonate (CaCO ₃) - Not recorded |
| 2_LOI | Loss on Ignition (%) |
| 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 |
| 6Z | Organic carbon (%) - Not recorded |
| 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 |