

**Project Name:** WQA  
**Project Code:** WQA      **Site ID:** B597      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (QLD)

#### Site Information

|                        |                           |                   |                     |
|------------------------|---------------------------|-------------------|---------------------|
| <b>Desc. By:</b>       | G.D. Hubble               | <b>Locality:</b>  |                     |
| <b>Date Desc.:</b>     | 01/09/69                  | <b>Elevation:</b> | 85 metres           |
| <b>Map Ref.:</b>       | Sheet No. : 6848 1:100000 | <b>Rainfall:</b>  | 203                 |
| <b>Northing/Long.:</b> | 139.563888888889          | <b>Runoff:</b>    | Moderately rapid    |
| <b>Easting/Lat.:</b>   | -24.525                   | <b>Drainage:</b>  | Imperfectly drained |

#### Geology

|                      |              |                                    |                              |
|----------------------|--------------|------------------------------------|------------------------------|
| <b>ExposureType:</b> | Auger boring | <b>Conf. Sub. is Parent. Mat.:</b> | No Data                      |
| <b>Geol. Ref.:</b>   | Cza          | <b>Substrate Material:</b>         | Auger boring, 2 m deep, Clay |

#### Land Form

|                         |                     |                        |             |
|-------------------------|---------------------|------------------------|-------------|
| <b>Rel/Slope Class:</b> | Level plain <9m <1% | <b>Pattern Type:</b>   | Flood plain |
| <b>Morph. Type:</b>     | Flat                | <b>Relief:</b>         | No Data     |
| <b>Elem. Type:</b>      | Plain               | <b>Slope Category:</b> | Level       |
| <b>Slope:</b>           | 0 %                 | <b>Aspect:</b>         | No Data     |

**Surface Soil Condition (dry):** Surface crust

#### Erosion:

#### Soil Classification

|  |  |                                |           |
|--|--|--------------------------------|-----------|
| <b>Australian Soil Classification:</b> |  | <b>Mapping Unit:</b>           | N/A       |
| Epicalcareous Crusty Grey Vertosol     |  | <b>Principal Profile Form:</b> | Ug5.24    |
| <b>ASC Confidence:</b>                 |  | <b>Great Soil Group:</b>       | Grey clay |

No analytical data are available but confidence is fair.

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

**Vegetation:** Low Strata - , , . \*Species includes - Bassia species  
Tall Strata - Tree, 3.01-6m, Very sparse. \*Species includes - Eucalyptus species

**Surface Coarse Fragments:** 0-2%, coarse gravelly, 20-60mm, , Quartz

#### Profile Morphology

|    |             |   |
|----|-------------|---|
| A  | 0 - 0.1 m   | Pale brown (10YR6/3-Moist); Very pale brown (10YR7/3-Dry); ; Light clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Dry; Firm consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules;  |
| A  | 0.1 - 0.2 m | Pale brown (10YR6/3-Moist); ; Light clay; Moderate grade of structure, 10-20 mm, Angular blocky; Dry; Firm consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules;   |
| A  | 0.2 - 0.3 m | Pale brown (10YR6/3-Moist); ; Light clay; Moderate grade of structure, 10-20 mm, Angular blocky; Dry; Firm consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules;   |
| A  | 0.3 - 0.6 m | Pale brown (10YR6/3-Moist); ; Light clay; Moderate grade of structure, 10-20 mm, Angular blocky; Dry; Firm consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Gradual change to -   |
| B2 | 0.6 - 0.9 m | Light yellowish brown (10YR6/4-Moist); ; Medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moderately moist; Very firm consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Very few (0 - 2 %), Gypseous, , Crystals; |
| B2 | 0.9 - 1.2 m | Light yellowish brown (10YR6/4-Moist); ; Medium clay; Moderate grade of structure, Angular blocky; Moderately moist; Very firm consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Very few (0 - 2 %), Gypseous, , Crystals;           |
| B2 | 1.2 - 1.5 m | Light yellowish brown (10YR6/4-Moist); ; Medium heavy clay; Moderate grade of structure, Angular blocky; Moderately moist; Very firm consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Very few (0 - 2 %), Gypseous, , Crystals;     |
| B2 | 1.5 - 1.8 m | Light yellowish brown (10YR6/4-Moist); ; Medium heavy clay; Moderate grade of structure, Angular blocky; Moderately moist; Very firm consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Few (2 - 10 %), Gypseous, , Crystals;         |

#### Morphological Notes

#### Observation Notes

FRAGILE SURFACE CRUST 2-10MM THICK COARSE SANDY CLAY:TEXTURES BELOW CRUST RATHER FINE SANDY THROUGHOUT:

#### Site Notes

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**Laboratory Test Results:**

| Depth     | pH   | 1:5 EC | Exchangeable Cations |    |   | Exchangeable      | CEC     | ECEC | ESP |
|-----------|------|--------|----------------------|----|---|-------------------|---------|------|-----|
| m         |      | dS/m   | Ca                   | Mg | K | Na<br>Cmol (+)/kg | Acidity |      | %   |
| 0 - 0.1   | 8.4H | 0.024B |                      |    |   |                   |         |      |     |
| 0.1 - 0.2 | 8.5H | 0.034B |                      |    |   |                   |         |      |     |
| 0.2 - 0.3 | 8.6H | 0.028B |                      |    |   |                   |         |      |     |
| 0.3 - 0.6 | 8.6H | 0.034B |                      |    |   |                   |         |      |     |
| 0.6 - 0.9 | 7.9H | 0.39B  |                      |    |   |                   |         |      |     |
| 0.9 - 1.2 | 7.7H | 1.7B   |                      |    |   |                   |         |      |     |
| 1.2 - 1.5 | 7.7H | 2.5B   |                      |    |   |                   |         |      |     |
| 1.5 - 1.8 | 7.8H | 3.9B   |                      |    |   |                   |         |      |     |

| 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 - 0.1   | 0.18C | 0.12E     | 58B      | 0.032F  | 0.024B  | 0.99B   |              |               | 21C | 36       | 11 32     |
| 0.1 - 0.2 | 0.36C | 0.12E     |          |         | 0.019B  |         |              |               |     |          |           |
| 0.2 - 0.3 | 0.28C | 0.09E     | 55B      |         | 0.015B  |         |              |               |     |          |           |
| 0.3 - 0.6 | 0.36C | 0.09E     |          | 0.029F  | 0.019B  | 0.9B    |              |               | 23C | 35       | 4 35      |
| 0.6 - 0.9 | 0.57C |           |          |         | 0.055B  |         |              |               | 19C | 34       | 7 38      |
| 0.9 - 1.2 | 0.62C | 0.07E     |          | 0.029F  | 0.016B  | 0.83B   |              |               |     |          |           |
| 1.2 - 1.5 | 0.52C |           |          |         |         |         |              |               |     |          |           |
| 1.5 - 1.8 | 0.33C |           |          | 0.039F  |         | 0.99B   |              |               | 17C | 30       | 6 41      |

[illegible]

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**Laboratory Analyses Completed for this profile**

|           |   |
|-----------|---|
| 10A_NR    | Total element - S(%) - Not recorded   |
| 17A_NR    | Total element - K(%) - Not recorded   |
| 19B_NR    | Calcium Carbonate (CaCO <sub>3</sub> ) - Not recorded                       |
| 2_LOI     | Loss on Ignition (%)  |
| 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   |
| 9A_NR     | Total element - P(%) - Not recorded   |
| 9G_BSES   | Available P (mg/kg) - Acid P - 0.005M H <sub>2</sub> SO <sub>4</sub> (BSES) |
| 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   |