

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 2307 **Observation ID:** 1  
**Agency Name:** QLD Department of Primary Industries

**Site Information**

|                        |                      |                   |         |
|------------------------|----------------------|-------------------|---------|
| <b>Desc. By:</b>       | M.G. Cannon          | <b>Locality:</b>  |         |
| <b>Date Desc.:</b>     | 10/05/94             | <b>Elevation:</b> | No Data |
| <b>Map Ref.:</b>       | Sheet No. : 8060 GPS | <b>Rainfall:</b>  | No Data |
| <b>Northing/Long.:</b> | 7902322 AMG zone: 55 | <b>Runoff:</b>    | No Data |
| <b>Easting/Lat.:</b>   | 367466 Datum: AGD66  | <b>Drainage:</b>  | No Data |

**Geology**

|                       |         |                                    |  |
|-----------------------|---------|------------------------------------|--|
| <b>Exposure Type:</b> | No Data | <b>Conf. Sub. is Parent. Mat.:</b> | No Data  |
| <b>Geol. Ref.:</b>    | No Data | <b>Substrate Material:</b>         | Undisturbed soil core, Metamorphic rock (unidentified) |

**Land Form**

|                         |         |                        |                 |
|-------------------------|---------|------------------------|-----------------|
| <b>Rel/Slope Class:</b> | No Data | <b>Pattern Type:</b>   | Rises           |
| <b>Morph. Type:</b>     | Ridge   | <b>Relief:</b>         | No Data         |
| <b>Elem. Type:</b>      | No Data | <b>Slope Category:</b> | Gently inclined |
| <b>Slope:</b>           | 3 %     | <b>Aspect:</b>         | No Data         |

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

**Erosion:**

**Soil Classification**

|  |  |                                |          |
|--|--|--------------------------------|----------|
| <b>Australian Soil Classification:</b>                       |  | <b>Mapping Unit:</b>           | N/A      |
| Palic Paralithic Leptic Tenosol Thin Slightly gravelly Sandy |  | <b>Principal Profile Form:</b> | Uc4      |
| Sandy Shallow  |  |                                |          |
| <b>ASC Confidence:</b>                                       |  | <b>Great Soil Group:</b>       | Lithosol |
| No analytical data are available but confidence is fair.     |  |                                |          |

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

**Vegetation:** Low Strata - Tussock grass, <0.25m, Sparse. \*Species includes - Bothriochloa decipiens, Heteropogon contortus, Aristida species  
papuana Mid Strata - Tree, 3.01-6m, Sparse. \*Species includes - Eucalyptus crebra, Eucalyptus

Tall Strata - Tree, 6.01-12m, Sparse. \*Species includes - Eucalyptus crebra, Eucalyptus papuana

**Surface Coarse Fragments:** 2-10%, medium gravelly, 6-20mm, angular tabular, Metamorphic rock (unidentified)

**Profile Morphology**

|    |               |  |
|----|---------------|--|
| A1 | 0 - 0.08 m    | Dark yellowish brown (10YR4/4-Moist); ; Loamy sand; Massive grade of structure; Smooth-ped fabric; Dry; Very weak consistence; , Calcareous, , , , Gypseous, , ; Field pH 6.5 (Raupach, 0.05); Clear change to - |
| A2 | 0.08 - 0.15 m | Yellowish brown (10YR5/4-Moist); ; Loamy sand; Massive grade of structure; Smooth-ped fabric; Dry; Very weak consistence; , Calcareous, , , , Gypseous, , ; Field pH 6.5 (Raupach, 0.1); Clear change to -       |
| BC | 0.15 - 0.6 m  | ; Dry; Very weak consistence; , Calcareous, , , , Gypseous, , ; Field pH 7 (Raupach, 0.5);   |

**Morphological Notes**

**Observation Notes**

**Site Notes**

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Laboratory Test Results:

| Depth | pH | 1:5 EC | Exchangeable Cations |    | Exchangeable Acidity |             | CEC | ECEC | ESP |
|-------|----|--------|----------------------|----|----------------------|-------------|-----|------|-----|
| m     |    | dS/m   | Ca                   | Mg | K                    | Na          |     |      |     |
|       |    |        |                      |    |                      | Cmol (+)/kg |     |      | %   |

  

| 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 |
|       |       |           |          |         |         |         |              | %             |           |

  

| Depth | COLE | Gravimetric/Volumetric Water Contents |          |         |             |       |       | K sat  | K unsat   |
|-------|------|---------------------------------------|----------|---------|-------------|-------|-------|--------|-----------|
|       |      | Sat.                                  | 0.05 Bar | 0.1 Bar | 0.5 Bar     | 1 Bar | 5 Bar | 15 Bar |           |
| m     |      |                                       |          |         | g/g - m3/m3 |       |       |        | mm/h mm/h |

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Laboratory Analyses Completed for this profile